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Ratio Mathematica is an open-access journal that publishes an issue every six months (in June and December). The journal is interested in original research articles on theoretical and applied Mathematics and Statistics.

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Results on Relatively Prime Domination Number of Vertex Switching of Some Graphs

A. Jancy Vini*

C. Jayasekaran†

Abstract

If a set $S \subseteq V$ has at least two members and every pair of vertices u and v is such that $(d(u), d(v)) = 1$, then it is said to be a relatively prime dominating set. The relatively prime domination number, represented by $\gamma_{rpd}(G)$, is the lowest cardinality of a relatively prime dominating set. The switching of a finite undirected graph by a subset is defined as the graph $G^\sigma(V, E')$, which is obtained from G by removing all edges between σ and its complement $V - \sigma$ and adding as edges all non-edges between σ and $V - \sigma$. In this paper, we compute the relatively prime domination number of vertex switching of cycle type graphs like David Star Graph, Helm Graph, Friendship Graph and Book Graph .

Keywords: Dominating set, relatively prime dominating set, vertex switching.

2020 AMS subject classifications:05C69.¹

*Assistant Professor, Department of Mathematics, Holy Cross College(Autonomous), Nagercoil - 629004, Tamilnadu, India; jancyvini@gmail.com.

†Associate Professor, Department of Mathematics, Pioneer Kumaraswamy College, Nagercoil - 629003, Tamil Nadu, India. jayacpkc@gmail.com.

¹Received on . Accepted on . Published on . December 1, 2023 DOI: 10.23755/rm.v48i0.1211. ISSN: 1592-7415. eISSN: 2282-8214. ©The Authors. This paper is published under the CC-BY licence agreement.





Source details

South East Asian Journal of Mathematics and Mathematical Sciences

Scopus coverage years: from 2019 to Present

Publisher: Ramanujan Society of Mathematics and Mathematical Sciences

ISSN: 0972-7752 E-ISSN: 2582-0850

Subject area: Mathematics: Algebra and Number Theory Mathematics: Applied Mathematics Mathematics: Analysis
Mathematics: Discrete Mathematics and Combinatorics Mathematics: Computational Mathematics

Source type: Journal

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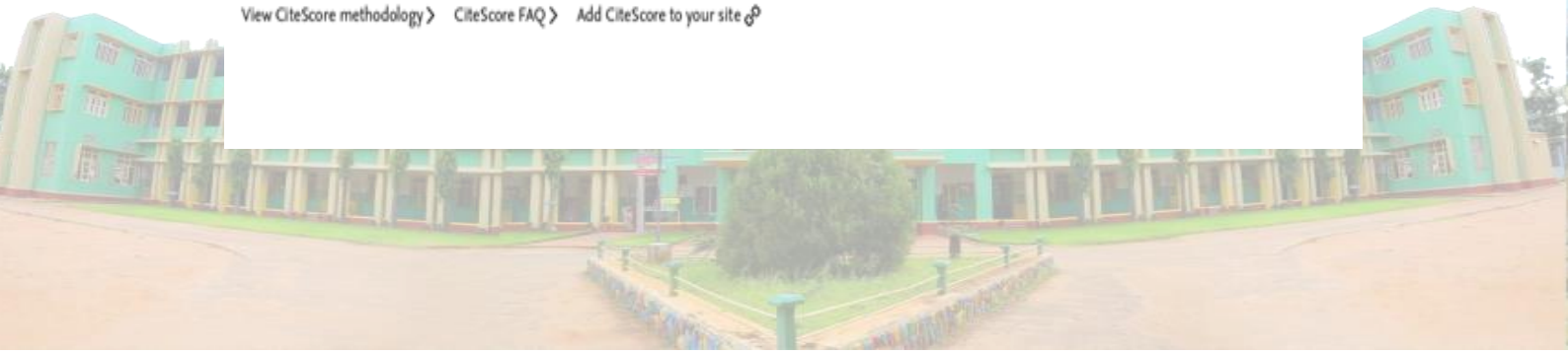
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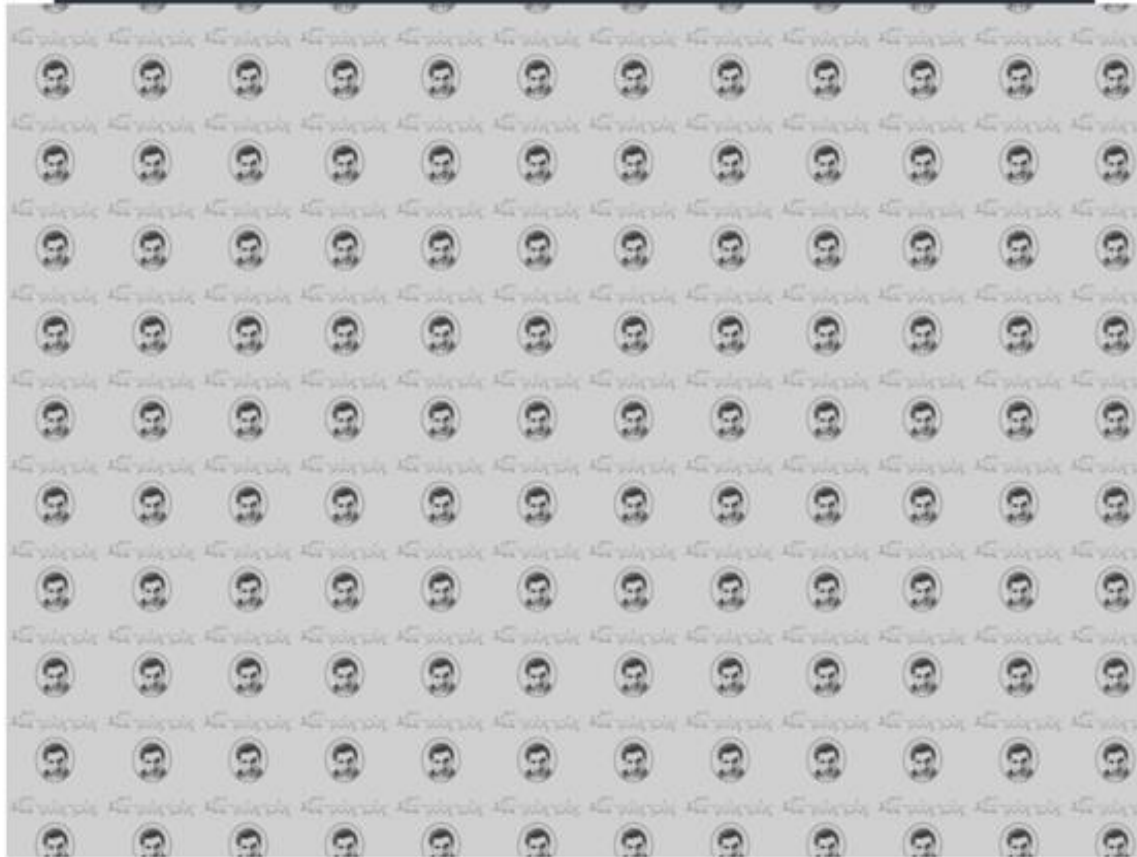
Details of Publication

The Journal is published one volume of three numbers of issue in each year.

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South East Asian J. of Mathematics and Mathematical Sciences

Vol. 19, No. 2 (2023), pp. 231-240

DOI: 10.56827/SEAJMMS.2023.1902.17

ISSN (Online): 2582-0850

ISSN (Print): 0972-7752

FIRST ZAGREB MATRIX AND ENERGY OF A T_2 HYPERGRAPH

Sharmila D., Sujitha S.* and Angel Jebitha M. K.*

Department of Mathematics,
Manonmaniam Sundaranar University,
Abishekapatti, Tirunelveli - 627012, Tamil Nadu, INDIA

E-mail : sharmilareegan10@gmail.com

*PG and Research Department of Mathematics,
Holy Cross College (Autonomous), Nagercoil, INDIA

E-mail : sujitha.s@holycrossngl.edu.in, angeljebitha@holycrossngl.edu.in

(Received: Aug. 22, 2023 Accepted: Aug. 26, 2023 Published: Aug. 30, 2023)

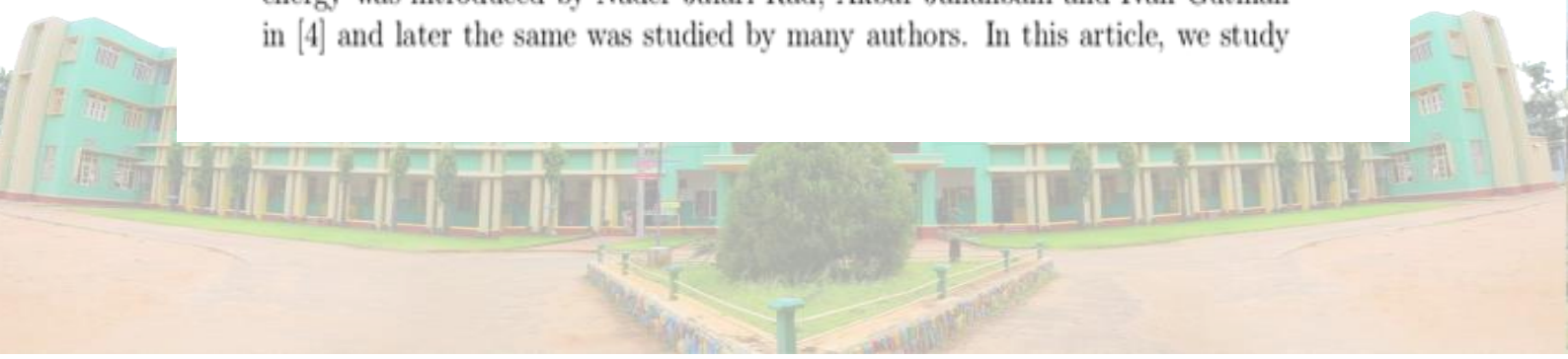
Abstract: Let H be a T_2 hypergraph of order $n \geq 4$. The first Zagreb matrix of H , denoted by $Z(H)$ is defined as the square matrix of order n , whose $(i, j)^{th}$ entry is $d_i + d_j$ if x_i and x_j are adjacent and zero for other cases. The first Zagreb energy $ZE(H)$ of H is the sum of the absolute values of the eigenvalues of $Z(H)$. It is shown that, for a T_2 hypergraph $ZE(H) \leq \left\lceil \frac{\sqrt{2}(n^2+3n+1)}{\sqrt{3}} \right\rceil$.

Keywords and Phrases: T_2 hypergraph, first Zagreb matrix, first Zagreb energy.

2020 Mathematics Subject Classification: 05C65, 05C50.

1. Introduction

The basic definitions and terminologies of a hypergraph are not given here and we refer to it [2] and [11]. The concept of hypergraph was introduced by Berge in 1967. In 2017, Seena V and Raji Pilakkat introduced Hausdorff hypergraph, T_0 hypergraph and T_1 hypergraph [7], [8] and [9]. Based on [8] and [9] S. Sujitha and D. Sharmila introduced T_2 hypergraph and studied Randic matrix and the corresponding energy in [10]. In 1977, Gutman [3] defined graph energy. In 2007, Nikiforov [6] extended the concept of graph energy to matrices. The first Zagreb energy was introduced by Nader Jafari Rad, Akbar Jahanbani and Ivan Gutman in [4] and later the same was studied by many authors. In this article, we study





Source details

Shu Ju Cai Ji Yu Chu Li/Journal of Data Acquisition and Processing

Scopus coverage years: from 2001 to Present

Publisher: Nanjing University of Aeronautics an Astronautics

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Publication Details
Edited by: Editorial Board of Journal of Data Acquisition and Processing
 P.O. Box 2704, Beijing 100190, P.R. China
Sponsored by: Institute of Computing Technology, CAS & China Computer Federation
Undertaken by: Institute of Computing Technology, CAS
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05 July-September 2023, Volume 38 Issue 4 Previous Issue (Volume 38 Issue 3)

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THE UPPER CERTIFIED DOMINATION NUMBER OF A GRAPH

A. Janani¹ and J. Befija Minnie²

Register Number : 20213042092001

¹Research Scholar, Department of Mathematics
Holy Cross College (Autonomous), Nagercoil-629004
E-mail: janania039@gmail.com

²Assistant Professor, Department of Mathematics
Holy Cross College (Autonomous), Nagercoil-629004
Affiliated to Manonmaniam Sundaranar University,
Abishekapatti, Tirunelveli-627012

Abstract

A certified dominating set D of vertices in a connected graph G is minimal certified dominating set if no proper subset of D is a certified dominating set of G . The upper certified domination number $\lceil_{cer}(G)$ is the maximum cardinality of a minimal certified dominating set of G . It is shown that for every positive integers a and b with $2 \leq a \leq b$ there exists a connected graph G such that $\gamma_{cer}(G) = a$ and $\lceil_{cer}(G) = b$.

Keywords: upper certified domination number, certified domination number, domination number.

AMS Subject Classification: 05C69

1. Introduction:

Let $G = (V, E)$ be a finite, undirected graph without loops and multiple edges. Unless and otherwise stated, the graph $G = (V, E)$ has $n = |V|$ vertices and $m = |E|$ edges. For basic definitions and terminologies, we refer to [4]. Two vertices u and v are said to be adjacent if uv is an edge of G . The open neighbourhood of a vertex v in a graph G is defined as the set $N_G(v) = \{u \in V(G) : uv \in E(G)\}$. While the closed neighbourhood of a vertex v in a graph G is defined as the set $N_G[v] = N_G(v) \cup \{v\}$.

A set $D \subseteq V(G)$ is called a dominating set of G if for every $v \in V \setminus D$ is adjacent to atleast one vertex in D . A dominating set D is said to be minimal if no subset of D is a dominating set of G . The minimum cardinality of a minimal dominating set of G is called the domination number of G and is denoted by $\gamma(G)$. Any dominating set of cardinality $\gamma(G)$ is a γ -set of G . Recently dominating number of a graph is studied in [4]. A dominating set D of $G = (V, E)$ is a certified dominating set, if every vertex in D has either zero or atleast two neighbours in $V \setminus D$. The certified domination number $\gamma_{cer}(G)$ of G is the minimum cardinality of certified dominating set. The certified domination number of a graph was studied in [5,6]. In this article, the upper certified domination number of a graph is introduced and studied.

2. The Upper Certified Domination Number of a Graph

Definition 2.1

A certified dominating set D of vertices in a connected graph G is minimal certified dominating set if no proper subset of D is a certified dominating set of G . The upper certified domination number $\lceil_{cer}(G)$ is the maximum cardinality of a minimal certified dominating set of G

Example 2.2





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Scopus coverage years: from 2018 to Present

Publisher: Isik University

ISSN: 2146-1147 E-ISSN: 2587-1013

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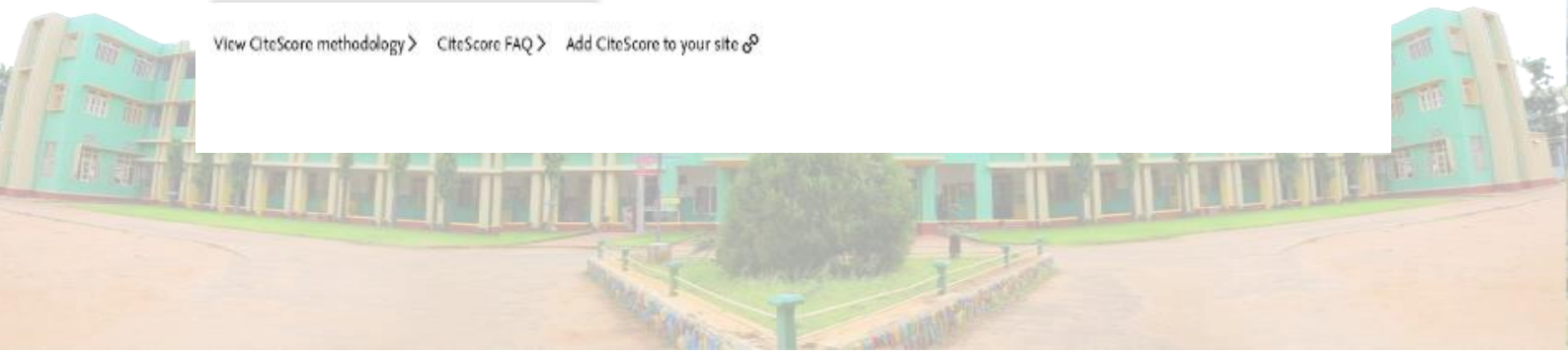
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2022 Journal Impact Factor™ 0.4

Library of Congress USA catalogue QA1.T885

Indexed and abstracted by:

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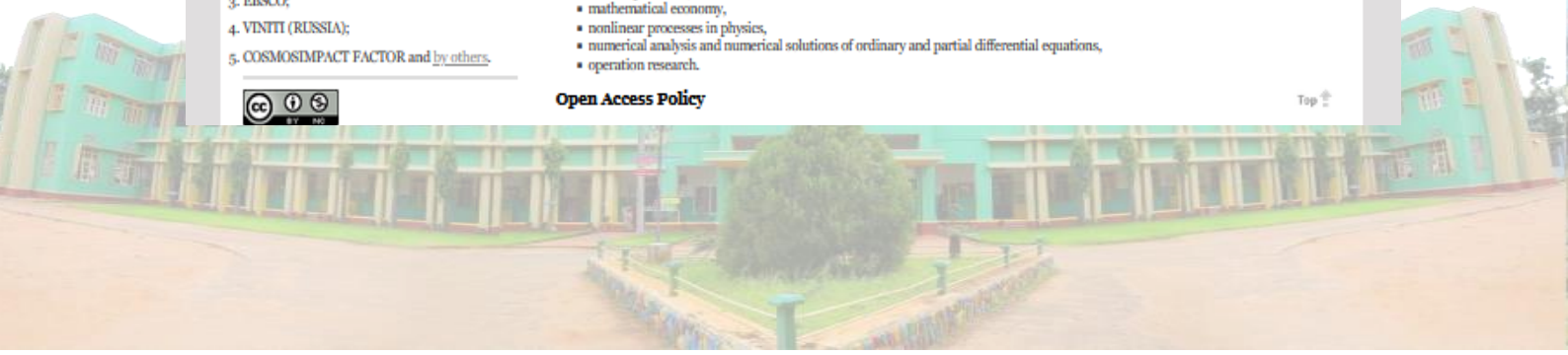
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K-PRODUCT CORDIAL LABELING OF FAN GRAPHS

K. J. DAISY¹, R. S. SABIBHA², P. JEYANTHI^{3*}, M. Z. YOUSSEF⁴, §

ABSTRACT. Let f be a map from $V(G)$ to $\{0, 1, \dots, k-1\}$ where k is an integer, $1 \leq k \leq |V(G)|$. For each edge uv assign the label $f(u)f(v)(\text{mod } k)$. f is called a k -product cordial labeling if $|v_f(i) - v_f(j)| \leq 1$, and $|e_f(i) - e_f(j)| \leq 1$, $i, j \in \{0, 1, \dots, k-1\}$, where $v_f(x)$ and $e_f(x)$ denote the number of vertices and edges respectively labeled with x ($x = 0, 1, \dots, k-1$). In this paper we prove that fan F_n and double fan DF_n when $k=4$ and 5 admit k -product cordial labeling.

Keywords: cordial labeling, product cordial labeling, k -product cordial labeling, 4-product cordial graph, 5-product cordial graph.

AMS Subject Classification: 05C78.

1. INTRODUCTION

All graphs considered here are simple, finite, connected and undirected. We follow the basic notations and terminology of graph theory as in [4]. While studying graph theory, one that has gained a lot of popularity during the last 60 years is the concept of labelings of graphs due to its wide range of applications. Labeling is a function that allocates the elements of a graph to real numbers, usually positive integers. In 1967, Rosa [13] published a pioneering paper on graph labeling problems. Thereafter many types of graph labeling techniques have been studied by several authors. Gallian [2] in his survey beautifully classified the labelings into graceful labeling and harmonious labelings, variations of graceful labelings, variations of harmonious labelings, magic type labelings, anti-magic type labelings and miscellaneous labelings. Cordial labeling is a weaker version of graceful and harmonious labeling was introduced by Cahit in [1]. Let f be a function from the vertices of G to $\{0, 1\}$ and for each edge xy assign the label $|f(x) - f(y)|$.

¹ Department of Mathematics, Holy Cross College, Nagercoil, Tamilnadu, India.
e-mail: jeyadaisy@yahoo.com; ORCID: <https://orcid.org/0000-0002-2159-7710>.

² Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.
e-mail: sanithazhi@gmail.com; ORCID: <https://orcid.org/0000-0001-7510-2798>.

³ Department of Mathematics, Govindammal Aditanar College for Women, Tiruchendur, 628215, Tamilnadu, India.
e-mail: jeyajeyanthi@rediffmail.com; ORCID: <https://orcid.org/0000-0003-4349-164X>.

* Corresponding author

⁴ Department of Mathematics and Statistics, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh 11623, Saudi Arabia.

Department of Mathematics, Faculty of Science, Ain Shams University, Abbassia, Cairo, Egypt.
e-mail: mzyoussef11566@yahoo.com; ORCID: <https://orcid.org/0000-0002-0365-1891>.

§ Manuscript received: August 25, 2020; accepted: January 22, 2021.

TWMS Journal of Applied and Engineering Mathematics, Vol.13, No.1 © Isk University, Department of Mathematics, 2023; all rights reserved.





Source details

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Scopus coverage years: from 2013 to Present

Publisher: Indian Mathematical Society

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Editor : Preyush Chandra
 Online ISSN : 2455 6475
 Print ISSN : 0019 5839
 Frequency : Quarterly
 Publisher/s : Informatics Publishing Limited, The Indian Mathematical Society

The Indian Mathematical Society began publishing Progress Reports right from 1907 and then the Journal from 1908 (The 1908 and 1909 issues of the Journal are entitled 'The Journal of the Indian Mathematical Club'). From 1910 onwards, it is published as its current title 'The Journal of Indian

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The Connected Edge-To-Vertex Geodetic Number of a Graph

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 J. John

 Department of Mathematics, Government College of Engineering, Tirunelveli-627007, IN

 Sujitha S.

 Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, IN

DOI: <https://doi.org/10.18311/jims/2023/26328>

Keywords: Geodesic, Edge-To-Vertex Geodetic Number, Connected Edge-To-Vertex Geodetic Number.

05C12.

ABSTRACT

Let $G = (V, E)$ be a graph. A subset $S \subseteq E$ is called an edge-to-vertex geodetic set of G if every vertex of G is either incident with an edge of S or lies on a geodesic joining a pair of edges of S . The minimum cardinality of an edge-to-vertex geodetic set of G is $g_{ev}(G)$. Any edge-to-vertex geodetic set of cardinality $g_{ev}(G)$ is called an edge-to-vertex geodetic basis of G . A connected edge-to-vertex geodetic set of a graph G is an edge-to-vertex geodetic set S such that the subgraph $G[S]$ induced by S is connected. The minimum cardinality of a connected edge-to-vertex geodetic set of G is the connected edge-to-vertex geodetic number of G and is denoted by $g_{cev}(G)$. Some general properties satisfied by this concept are studied. The connected graphs G of size q with connected edge-to-vertex geodetic number 2 or q or $q - 1$ are characterized. It is shown that for any three positive integers q, a and b with $2 \leq a \leq b \leq q$, there exists a connected graph G of size q , $g_{ev}(G) = a$ and $g_{cev}(G) = b$.





Source details

Tuijin Jishu/Journal of Propulsion Technology

Scopus coverage years: from 1991 to Present

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ISSN: 1001-4055

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Source type: Journal

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Tuijin Jishu/Journal of Propulsion Technology
 ISSN: 1001-4055
 Vol. 44 No. 3 (2023)

Results on Eccentric Hypergraph of A K-Uniform Tight Cycle

¹ P. Selva Renuka, ² M. K. Angel Jebitha, ³ S. Sujitha

Research Scholar

Manonmaniam Sundaranar University, Tirunelveli-627012.

^{2,3} PG Research Department of Mathematics Holy Cross College (Autonomous) Nagercoil- 629004, Tamil Nadu, India.

Abstract : Let $\mathcal{H} = (V, E)$ be a hypergraph. The eccentric hypergraph $EH[\mathcal{H}] = (V, E')$ of a hypergraph \mathcal{H} is the hypergraph that has the same vertex set as in \mathcal{H} and the edge set is defined by $E' = \{S_x \subseteq V, x \in S_x / \text{for any vertex other than } x \text{ in } S_x \text{ is an eccentric vertex of } x\}$. In this paper we study about some results on eccentric k-uniform tight cycle.

Keywords: eccentric hypergraph, r-uniform hypergraph, tight cycle.
 AMS subject classification: 05C65

1. Introduction

The Hamilton cycles plays a main role in graph theory, a classic result of O. Ore in 1960 is that if the degree sum of any two independent vertices in an n-vertex graph is at least n, then the graph contains a Hamilton cycle. We generalize it in hypergraph. This has led to the study on eccentric tight Hamilton cycle. In [3], the eccentric graph was studied and in [5], the eccentric graph of a hypergraph was introduced and discussed. In this paper, we generalise this concept as eccentric hypergraph of a hypergraph.

A hypergraph \mathcal{H} is defined as a pair $\mathcal{H} = (V, E)$, where V is a set of vertices and E is a set of non-empty subsets of V , known as hyperedges or edges. A hypergraph is called simple if it contains no induced edges. For $0 \leq r \leq n$, we define complete r-uniform hypergraph to be the simple hypergraph $K_n^r = (X, E)$ such that $|X| = n$ and $E(K_n^r)$ coincides with all the r-subsets of X . A hypergraph $\mathcal{H} = (X, E)$ is called bipartite if its vertex set X can be partitioned into two disjoint sets X_1 and X_2 in such a way that each hyperedge of cardinality greater than or equal to two contains vertices from both parts. It means that there is no such hyperedge inside X_1 and there is no such hyperedge inside X_2 . A complete r-partite hypergraph is an r-uniform hypergraph $\mathcal{H} = (X, E)$ such that the set X can be partitioned into r-non-empty parts, each edge contains precisely one vertex from each part and all such subsets from E . It is denoted by $K_{n_1, n_2, \dots, n_r}^r$. In a hypergraph $\mathcal{H} = (X, E)$, an alternating sequence $x_0 E_0 x_1 E_1 \dots x_{t-1} E_{t-1} x_t$ of distinct vertices x_0, x_1, \dots, x_{t-1} and distinct edges E_0, E_1, \dots, E_{t-1} satisfying $x_i, x_{i+1} \in E_i, i = 0, 1, \dots, t-1$ is called a path connecting the vertices x_0 and x_t . If $x_0 = x_t$ then it is called a cycle. The value of t is called the length of the path or cycle respectively. The eccentricity $e(v)$ of vertex v is the maximum distance of v to any other vertex of G .

2. Main Result:

In [2], A. Dudek and A. Frieze study about tight Hamilton cycles in random uniform hypergraphs and random Structures. In this section, eccentric hypergraph of k-uniform tight cycle is discussed.

Definition:2.1 Let $\mathcal{H} = (V, E)$ be a hypergraph. The eccentric hypergraph $EH[\mathcal{H}] = (V, E')$ of a hypergraph \mathcal{H} is the hypergraph that has the same vertex set as \mathcal{H} and the edge set is defined by $E' = \{S_x \subseteq V, x \in S_x / \text{for any vertex other than } x \text{ in } S_x \text{ is an eccentric vertex of } x\}$.

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Distance based Topological Indices of a Nanorod Graph

Sobiya. S.¹, Sujitha. S.² and Angel Jebitha. M. K.²

¹Research Scholar (Reg.No:19213042092014), Department of Mathematics, Holy Cross College, Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli), Tamil Nadu, India.

²Assistant Professor, Department of Mathematics, Holy Cross College, Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli) Tamil Nadu, India.

Received: 18 Sep 2023

Revised: 10 Oct 2023

Accepted: 14 Dec 2023

*Address for Correspondence

Sujitha. S

Assistant Professor,

Department of Mathematics,

Holy Cross College, Nagercoil, Kanyakumari District

(Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli)

Tamil Nadu, India.

E.mail: sujitha.s@holycrossngl.edu.in



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ABSTRACT

In this article, we determine the distance-based topological indices such as Wiener index, Hyper Wiener index, Vertex Szeged index, Edge Szeged index, Edge-vertex Szeged index, Total Szeged index, and Padmakar-Ivan index of a Nanorod graph constructed from NaOH concentration. Additionally, we compare the numerical values of these distance-based topological indices with $k = 0.1, 0.09, 0.08, 0.07, 0.06, 0.05, 0.04, 0.03, 0.02$ and 0.01 .

Keywords: Nanorod graph, Wiener index, Hyper Wiener index, Vertex Szeged index, Edge Szeged index, Edge-vertex Szeged index, Total Szeged index, Padmakar-Ivan index.

AMS Subject Classification: 05C90, 05C92

INTRODUCTION

For notation and graph theory terminology not provided here, we refer to [Gary Chartrand, 2006]. In recent years, graph theory has generated significant interest in the field of mathematical chemistry, attracting mathematicians to formulate chemical structures and material properties. Chemical graph theory has numerous real-life applications and has gained popularity among researchers. A topological index is a numerical invariant of a molecular descriptor. It is also referred to as a graph-theoretic index, representing a numerical quantity associated with the molecular

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Scopus coverage years: from 1991 to Present

Publisher: Journal of Propulsion Technology

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Tuijin Jishu/Journal of Propulsion Technology
ISSN: 1001-4055
Vol. 44 No. 3 (2023)

Adjacent Line Graph in Ferrers Graph

[1]R. Chenthil ThangaBama, [2]S. Sujitha

[1] Register Number 18113132092001, Research Scholar, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil-629 004, India. email: chenthilthangabama@gmail.com
[2]Assistant Professor, Department of Mathematics, Holy Cross College (Autonomous), Nagercoil-629 004, India. email: sujitha.s@holycrossnsl.edu.in
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli-627 012, Tamil Nadu, India

Abstract:

A simple graph G = (V, E) is a Ferrers graph if for all distinct x, y, z, w in V if xy in E and zw in E then either xw in E or yz in E. In this paper, we study the adjacent line graph of a ferrers graphs. We also check the conditions for adjacent line graphs of Path, Cycle, Complete, Star graphs to be ferrers. Also a sufficient condition has been given for a graph sothat its adjacent line graph is not ferrers.

2000 Mathematics Subject Classification: 05C50, 05C25.
Keywords: Ferrers graph, Infringe ferrers graph, line graph, adjacent line graph.

1. Introduction

For graph theory notations and terminology not given here we refer it from [1]. The line graph of an undirected graph G is another graph L(G) that represents the adjacencies between edges of G. Let G = (V, E) be a simple graph with at least one pair of adjacent edges. The adjacent line graph of G, denoted by AL(G), is a graph with the vertex set V_AL = {v_ij / e_i and e_j are adjacent in G} and two vertices v_ij and v_kl are adjacent in AL(G), if and only if, either e_i and e_k or e_i and e_l and e_j and e_k or e_j and e_l are adjacent to each other in G. [7].

Ferrers relation was introduced in [2] for the first time has been utilized for different purposes in extensive and various science fields. The relation was used with concept lattices in formal concept analysis. Some graphs associated by the relation were linked together concept lattices again. We already proved some results [4] on Ferrer trees and its distance character. The upper bounds for distance function (u, v) for all u, v in V. Throughout the paper, we consider connected graph.

In this paper our intention is to move a step forward in the investigation of the adjacent line graph of a Ferrers graph and its properties. We also check the conditions for adjacent line graphs of Path, Cycle, Complete, Star graphs to be Ferrers. Also a sufficient condition has been given for a graph so that its adjacent line graph is not Ferrers.

Definition 1.1. [2] A simple graph G is a Ferrers graph if for all distinct x, y, z, w in V if xy in E and zw in E then either xw in E or yz in E. Since xy in E if and only if yx in E holds for all simple graphs, the definition of Ferrers graph must be extended to if xy in E and zw in E, then either xw in E or yz in E or xz in E or yw in E.

Definition. 1.2. [4] Graphs which do not satisfy the above conditions are classified as non- Ferrers graphs. Also, there are graphs which do not have at least four distinct vertices x, y, z, w in G such that xy, zw in G. That is, the graph does not exist at least two disjoint edges to verify Ferrers condition. This class of graphs is classified as infringe-Ferrers graphs. The obvious examples are C_3 and P_3. The following Theorems are used in the sequel.

Theorem 1.3. [4] Let G be a tree. Then G is a Ferrers tree if and only if G has two internal vertices.



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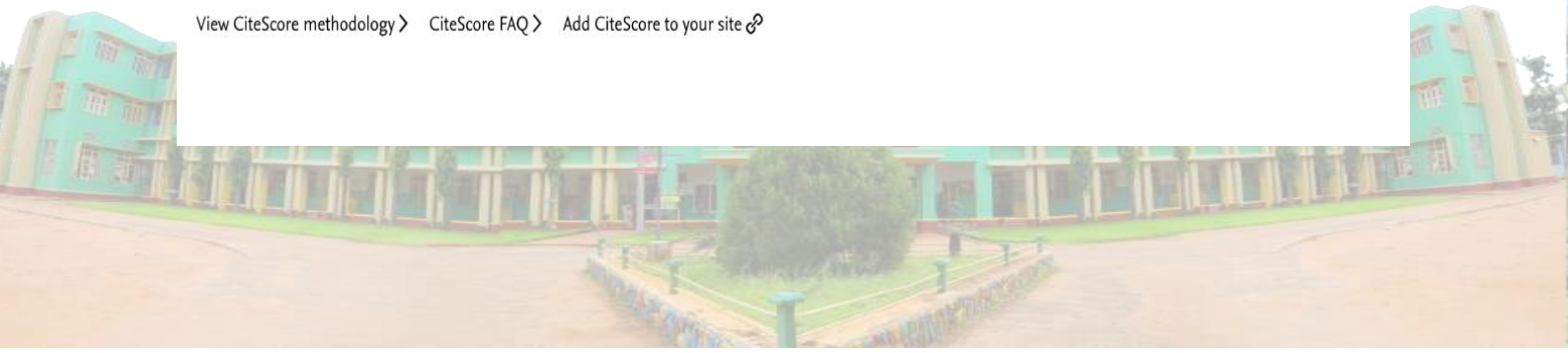
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Psychological wellbeing and avoidance strategies as moderators between excessive social media use and academic performance among Indian college students

[Antin Mary Siluvai](#), [Jesil Jerda George](#), [Satyanarayana Parayitam](#) ▾

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Abstract

Purpose

This study aims to assess the negative aspect of social media use among college students in India. A conceptual model showing the relationship between excessive social media use (ESMU) and academic performance of college students has been developed and tested. Further, the moderating role of psychological well-being and avoidance strategies were investigated.

Design/methodology/approach

A survey instrument was developed, and data was collected from 557 college students from higher educational institutions in southern India. First, the psychometric properties of the measures were tested using the Lisrel software for covariance-based structural equation modeling. Second, the structural model was tested by using PROCESS macros.

Findings

The results reveal that ESMU is a precursor to anxiety and academic performance. The findings also indicate that anxiety mediates the relationship between ESMU and academic performance. Psychological well-being and avoidance strategies were significant moderators in the relationship between ESMU and anxiety.

Originality/value

The multi-layered conceptual model was developed and tested in the context of a developing country (India) and investigated the effect of ESMU by college students on their academic performance and anxiety. The three-way interaction between psychological well-being (first moderator), avoidance strategies (second moderator) and ESMU





Source details

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Publisher: Ramanujan Society of Mathematics and Mathematical Sciences

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Subject area: Mathematics: Algebra and Number Theory Mathematics: Applied Mathematics Mathematics: Analysis
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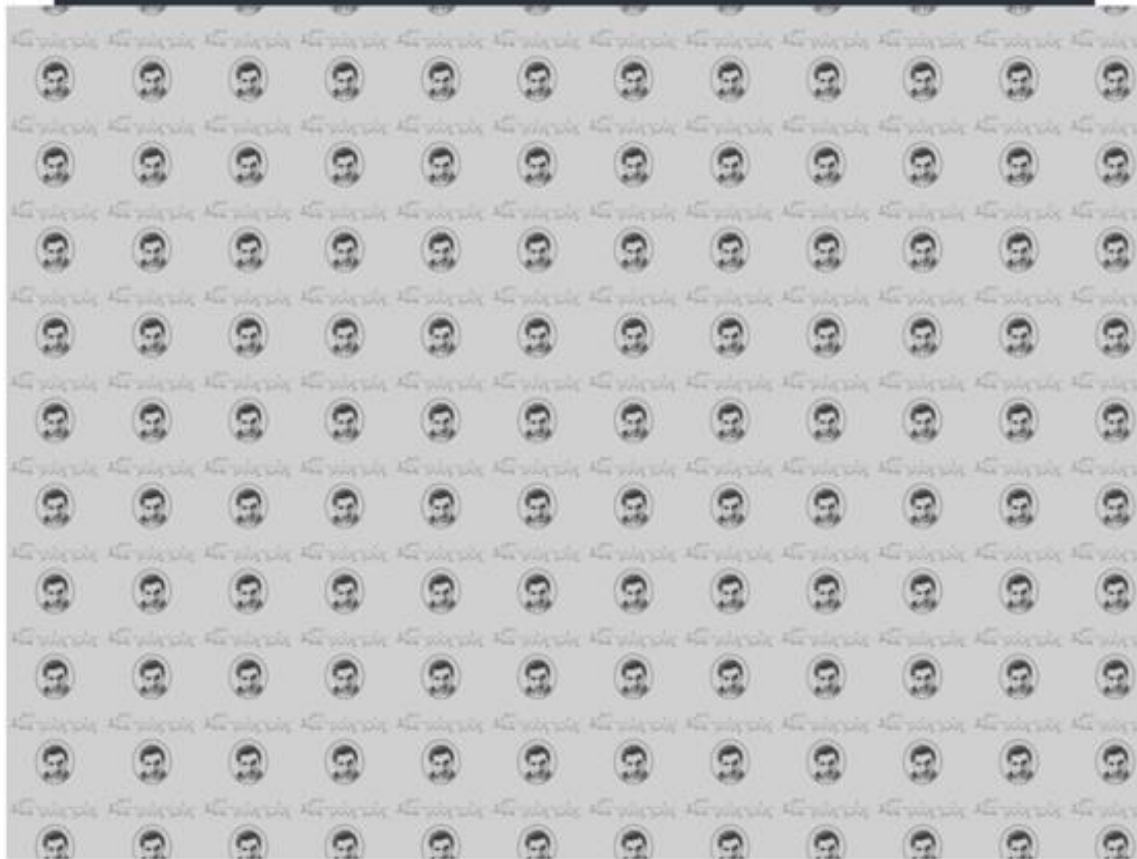
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Published issue of Journal of Ramanujan Society of Mathematics and Mathematical

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South East Asian J. of Mathematics and Mathematical Sciences
Vol. 19, No. 3 (2023), pp. 347-358

DOI: 10.56827/SEAJMMS.2023.1903.27

ISSN (Online): 2582-0850

ISSN (Print): 0972-7752

SUM CONNECTIVITY MATRIX AND ENERGY OF A
 T_2 HYPERGRAPH

Sharmila D., Sujitha S.* and Angel Jebitha M. K.*

Department of Mathematics,
Manonmaniam Sundaranar University,
Abishekapatti, Tirunelveli, Tamil Nadu, INDIA

E-mail : sharmilareegan10@gmail.com

*PG and Research Department of Mathematics,
Holy Cross College (Autonomous),
Nagercoil, Tamil Nadu, INDIA

E-mail : sujitha.s@holycrossngl.edu.in, angeljebitha@holycrossngl.edu.in

(Received: Oct. 21, 2023 Accepted: Dec. 23, 2023 Published: Dec. 30, 2023)

Abstract: Let H be a T_2 hypergraph with $n \geq 4$. The sum connectivity matrix of H , denoted by $SC(H)$ is defined as the square matrix of order n , whose $(i, j)^{th}$ entry is $\frac{1}{\sqrt{d_i+d_j}}$ if x_i and x_j are adjacent and zero for other cases. The sum connectivity energy $SCE(H)$ of H is the sum of the absolute values of the eigenvalues of $SC(H)$. It is shown that, for a T_2 hypergraph $[SCE(H)] \leq [1 + n - \sqrt{\frac{n}{\delta}}]$, where δ is the minimum degree of H .

Keywords and Phrases: T_2 hypergraph, sum connectivity matrix, sum connectivity energy.

2020 Mathematics Subject Classification: 05C65, 05C50.

1. Introduction

The basic definitions and terminologies of a hypergraph are not given here and we refer to it [1] and [5]. The concept of hypergraph was introduced by Berge in 1967. In 2017, Seena V and Raji Pilakkat introduced Hausdorff hypergraph,



Source details

Discrete Mathematics, Algorithms and Applications

Years currently covered by Scopus: from 2009 to 2024

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k -Product cordial labeling of product of graphs

K. Jeya Daisy

*Department of Mathematics, Holy Cross College
 Nagercoil, Tamilnadu, India
 jeyadaisy@yahoo.com*

R. Santrin Sabibha

*Manonmaniam Sundaranar University
 Tirunelveli, Tamilnadu, India
 sanithazhi@gmail.com*

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*Research Centre, Department of Mathematics
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*Department of Mathematics and Statistics, College of Science
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 Riyadh 11623, Saudi Arabia
 Department of Mathematics, Faculty of Science
 Ain Shams University, Abbassia, Cairo, Egypt
 mzyoussef11566@yahoo.com*

Received 9 July 2022

Revised 21 September 2022

Accepted 12 November 2022

Published 28 December 2022

Communicated by Guanghui Wang

In 2012, Ponraj *et al.* defined k -product cordial labeling as follows: Let f be a map from $V(G)$ to $\{0, 1, \dots, k-1\}$ where k is an integer, $1 \leq k \leq |V(G)|$. For each edge uv assign the label $f(u)f(v) \pmod{k}$. f is called a k -product cordial labeling if $|v_f(i) - v_f(j)| \leq 1$, and $|e_f(i) - e_f(j)| \leq 1$, $i, j \in \{0, 1, \dots, k-1\}$, where $v_f(x)$ and $e_f(x)$ denote the number of vertices and edges, respectively, labeled with x ($x = 0, 1, \dots, k-1$). A graph that admits k -product cordial labeling is called k -product cordial graph. Later, we proved





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The forcing geodetic global domination number of a graph

V. Selvi

*Department of Mathematics, Holy Cross College (Autonomous)
 Nagercoil 629 004, India
 selvi.maths1983@gmail.com*

V. Sujin Flower

*Department of Mathematics, Holy Cross College (Autonomous)
 Nagercoil 629 004, India
 Affiliated to Manonmaniam Sundaranar University
 Abishekapatti, Tirunelveli 627 012, India
 sujinflower@gmail.com*

Received 24 April 2021
 Revised 5 September 2021
 Accepted 3 February 2023
 Published 28 March 2023

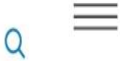
Communicated by Weili Wu

Let G be a connected graph and S be a minimum geodetic global dominating set of G . A subset $T \subseteq S$ is called a forcing subset for S if S is the unique minimum geodetic global dominating set containing T . A forcing subset for S of minimum cardinality is a minimum forcing subset of S . The forcing geodetic global domination number of S , denoted by $f_{\overline{\gamma}_g}(S)$, is the cardinality of a minimum forcing subset of S . The forcing geodetic global domination number of G , denoted by $f_{\overline{\gamma}_g}(G)$, is $f_{\overline{\gamma}_g}(G) = \min\{f_{\overline{\gamma}_g}(S)\}$, where the minimum is taken over all minimum geodetic global dominating sets S in G . The forcing geodetic global domination number of some standard graphs are determined. Some of its general properties are studied. It is shown that for every pair of positive integers a and b with $0 \leq a \leq b$ and $b > a + 2$, there exists a connected graph G such that $f_{\overline{\gamma}_g}(G) = a$ and $\overline{\gamma}(G) = b$. The geodetic global domination number of join of graphs is also studied. Connected graphs of order $n \geq 2$ with geodetic global domination number 2 are characterized. It is proved that, for a connected graph G with $\overline{\gamma}_g(G) = 2$. Then $0 \leq f_{\overline{\gamma}_g}(G) \leq 1$ and characterized connected graphs for which the lower and the upper bounds are sharp.

Keywords: Forcing geodetic global domination number; geodetic global domination number; geodetic number; domination number; global domination number.

Mathematics Subject Classification 2020: 05C69, 05C12





Source details

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Years currently covered by Scopus: from 1996 to 2021, 2023

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q -Analogue of the Generalized Fibonacci and Lucas Polynomials

Adem ŞAHİN

Ars Combinatoria | Volume 158 | Pages: 117-128 | Published: 31/03/2024

Abstract: In this article, we define q -generalized Fibonacci polynomials and q -generalized Lucas polynomials using q -binomial coefficient and obtain their recursive properties. In addition, we introduce generalized q -Fibonacci matrix and generalized q -Lucas matrix, then we derive their basic identities. We define (k, q, t) -symmetric generalized Fibonacci matrix...

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Helmut Prodinger

Ars Combinatoria | Volume 158 | Pages: 107-115 | Published: 31/03/2024

Abstract: Stanley considered Dyck paths where each maximal run of down-steps to the x -axis has odd length; they are also enumerated by (shifted) Catalan numbers. Prefixes of these combinatorial objects are enumerated using the kernel method. A more challenging version of skew Dyck paths combined with Stanley's restriction is also considered.

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Counting Distinct Adjacent r -tuples in Words

Aubrey Blecher, Arnold Knopfmacher

Ars Combinatoria | Volume 158 | Pages: 93-106 | Published: 31/03/2024

Abstract: For $r = 1, 2, \dots, 6$, we obtain generating functions $P_r^{(a)}(y)$ for words over the alphabet $[a]$, where y tracks the number of parts and $|y^a|$ is the total number of distinct adjacent r -tuples in words with a parts. In order to develop these generating functions for $1 \leq r \leq 3$, we make use of intuitive decompositions but for larger values of r , we switch to the cluster...

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Chris Buserhart, Norbert Hungerb, William Xu

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Article

Independent Fixed Connected Geodetic Number of a Graph

P.Titus^{1,*} and S.Antin Mary²

¹ Department of Mathematics, University College of Engineering Nagercoil, Anna University, Tirunelveli Region.

² Department of Mathematics, Holy Cross College (Autonomous), Nagercoil, India.

* **Correspondence:** titusvino@yahoo.com

Abstract: In this paper we introduce the concept of independent fixed connected geodetic number and investigate its behaviours on some standard graphs. Lower and upper bounds are found for the above number and we characterize the suitable graphs achieving these bounds. We also define two new parameters connected geo-independent number and upper connected geo-independent number of a graph. Few characterization and realization results are formulated for the new parameters. Finally an open problem is posed.

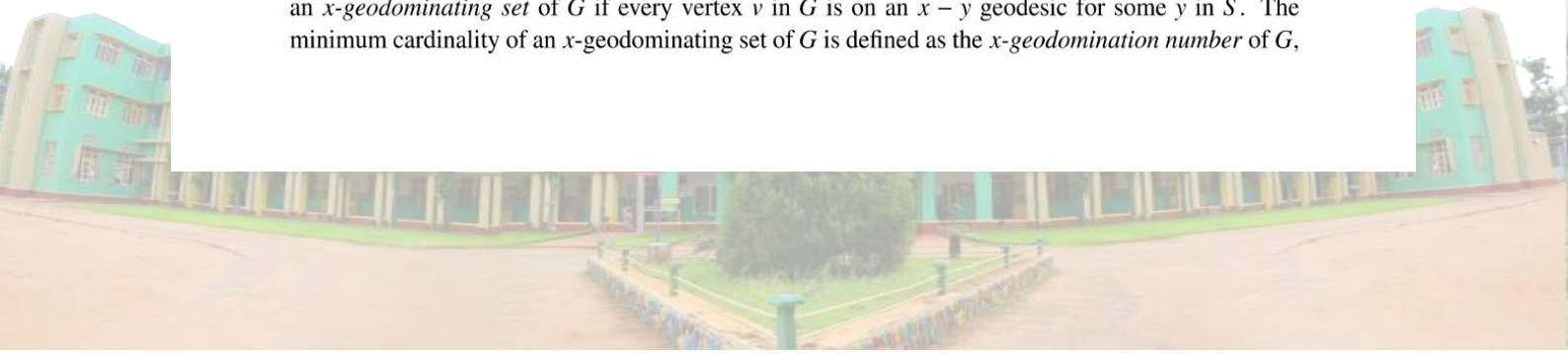
Keywords: Independent fixed connected geodetic set, Independent fixed connected geodetic number, Connected Geo-independent number, Upper connected Geo-independent number

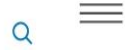
Mathematics Subject Classification: 05C12

1. Introduction

The introduction of Graph Theory is a revolution in the field of Mathematics. Various concepts were made easily understandable by its simple expression through graphical models. By a graph G we mean V , the set of vertices; E , the set of edges together with a binary operation of association. We refer to [1–3] for basic graph theoretic terms. In G , a shortest $x - y$ path is also known as $x - y$ geodesic. The *distance* $d(x, y)$ is defined as the number of edges of an $x - y$ geodesic in G . For any two vertices x and y in G , the *closed interval* $I[x, y]$ is the collection of vertices on an $x - y$ geodesic. The *closed interval* $I[S, S']$, where $S, S' \subseteq V(G)$, is defined as the union of subintervals $I[x, y]$ for some $x \in S$ and $y \in S'$. i.e., $I[S, S'] = \bigcup_{x \in S, y \in S'} I[x, y]$. A vertex v in G is called an *extreme vertex* or *simplicial vertex* if the subgraph induced by its adjacent vertices is complete.

A set $S \subseteq V(G)$ is called a *geodetic set* or *geodomination set* if every vertex of G is on some $x - y$ geodesic where $x, y \in S$. The minimum cardinality of a geodetic set of G is called as the *geodetic number* of G , denoted by $g(G)$ [4–8]. If S is a geodetic set of G and $\langle S \rangle$ is connected, then S is called the *connected geodetic set* of G . Its minimum order is named as the *connected geodetic number* of G , denoted by $cg(G)$. A connected geodetic set of cardinality $cg(G)$ is called a *cg-set* of G [9]. Again parameters upper connected geodetic number and forcing connected geodetic number were defined and investigated in [10]. Santhakumaran and Titus first introduced the vertex geodomination number in [11] and further studied in [12, 13]. For any vertex x in G , a set $S \subseteq V(G)$ is called an *x -geodominating set* of G if every vertex v in G is on an $x - y$ geodesic for some y in S . The minimum cardinality of an x -geodominating set of G is defined as the *x -geodomination number* of G ,





Source details

Journal of Molecular Structure

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 2 July 2024

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 Leila Amri-zirrol, ... Soheila Khadraddah
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 Wajdena Nabil, ... Kamel Kaabi
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 Dipak Kumar Sahoo, Nilima Priyadarshini Mishra
 2 July 2024

Research article • Abstract only
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Copper Ferrite nanoparticles synthesised using a novel green synthesis route: Structural development and photocatalytic activity

P. Aji Udhaya^{a,1}, Awais Ahmad^{b,1}, M. Meena^c, M. Abila Jeba Queen^d, M. Aravind^d, P. Velusamy^e, Tahani Mazyad Almutairi^f,
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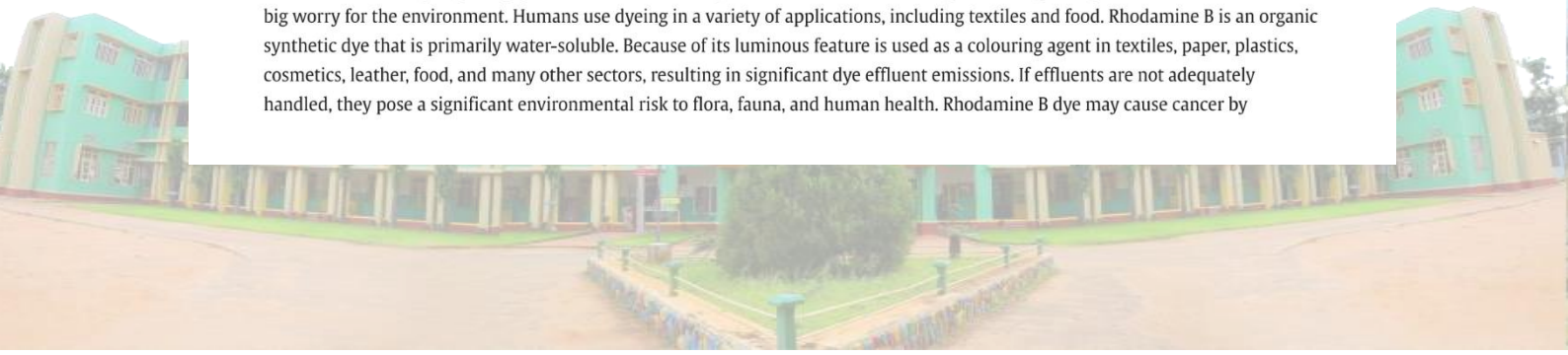
- Copper Ferrite nanoparticles synthesised using a novel green synthesis route.
- Cu-Fe NPs achieved high photocatalytic performance toward the removal of dyes.
- The copper ferrite NPs are suitable for waste water treatment and biomedical applications.

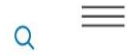
Abstract

The copper ferrite nanoparticles, recognized for their ferromagnetic characteristics, minimal conductivity, and superior electrochemical stability, were synthesized by a facile auto combustion approach using egg white as fuel via a green synthesis route. CuFe₂O₄ nanoparticles' structural, morphological, and optical properties were examined. XRD is used to determine the phase formation, particle size, and lattice parameter of spinel ferrite. X-ray Diffractometer (XRD), Fourier Transform Infrared Spectrometer (FTIR), Scanning Electron Microscopy (SEM), and Energy Dispersive X-ray analysis were used to rigorously examine the phase purity of the synthesized spinel ferrite. For morphological analysis, SEM and TEM were employed, whereas EDAX was used for elemental analyses. For a better knowledge of the conduction band (CB) and valence band (VB) boundaries of the produced nanoparticles, optical experiments were conducted by UV Diffuse Reflectance Spectroscopy. The degradation of Rhodamine B dye determined the photocatalytic competence of the synthesized sample under visible light. At regular intervals of time, the entire process was observed with a spectrophotometer. CuFe₂O₄ nanoparticles reveal a maximum photocatalytic degradation efficiency of around 94%, which is higher than that of CuFe₂O₄ nanoparticles prepared via other chemical route.

Introduction

Wastewater management is a significant challenge in developing nations because of the numerous industrial processes that meet human needs. The dyeing and pigment industries are a significant source of non-biodegradable organic dyes in wastewater, which is a big worry for the environment. Humans use dyeing in a variety of applications, including textiles and food. Rhodamine B is an organic synthetic dye that is primarily water-soluble. Because of its luminous feature is used as a colouring agent in textiles, paper, plastics, cosmetics, leather, food, and many other sectors, resulting in significant dye effluent emissions. If effluents are not adequately handled, they pose a significant environmental risk to flora, fauna, and human health. Rhodamine B dye may cause cancer by





Source details

Journal of Inorganic and Organometallic Polymers and Materials

Formerly known as: Journal of Inorganic and Organometallic Polymers

Scopus coverage years: 1996, from 2000 to 2001, from 2003 to Present

Publisher: Springer Nature

ISSN: 1574-1443 E-ISSN: 1574-1451

Subject area: Materials Science: Materials Chemistry Materials Science: Polymers and Plastics

Source type: Journal

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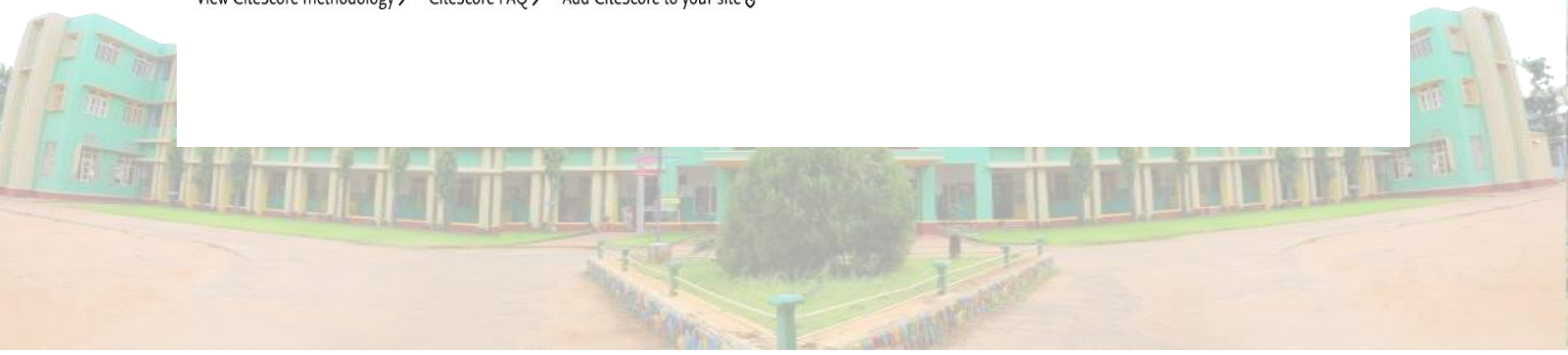
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Category	Rank	Percentile
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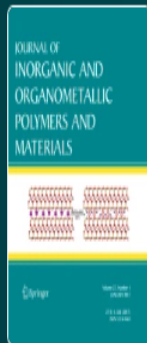
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Martel Zeldin, Alaa S. Abd-El-Aziz

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5 year impact factor
3.2 (2022)

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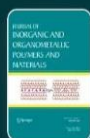
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Facile Synthesis of Ni²⁺ Doped MgFe₂O₄ Spinel Nanoparticles: Structural, Optical, Magnetic, and Dielectric Behavior

| Research | Published: 26 August 2023

| Volume 34, pages 374–386, (2024) [Cite this article](#)

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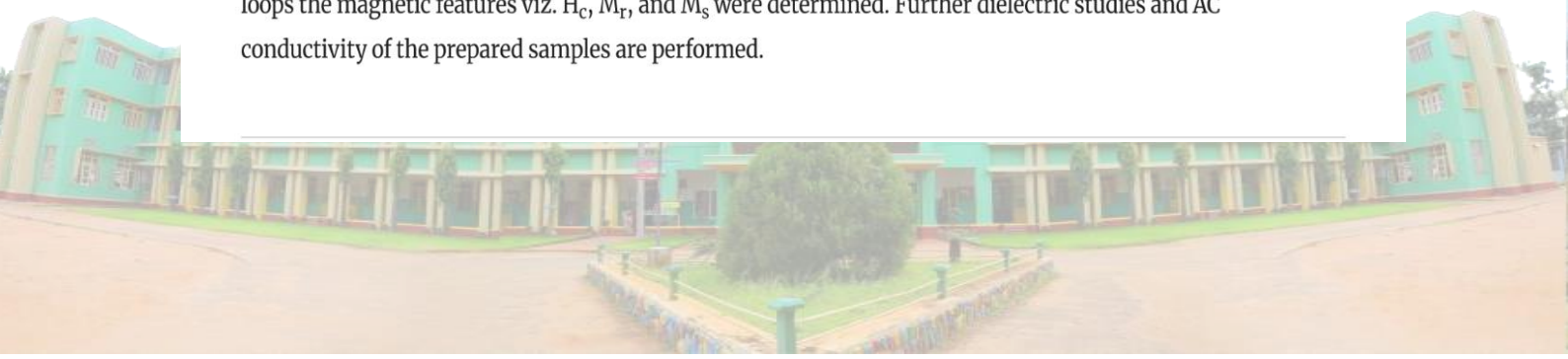
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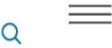
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Abstract

Nickel-doped magnesium cubic spinel ferrite nanoparticles (NPs) were prepared through the microwave combustion method (MCM). The structure of magnesium ferrite normal spinel is obtained from XRD analysis. The average crystallite size is between 26 and 17 nm. The elemental compositions and oxidizing states of Ni²⁺ doped MgFe₂O₄ ferrites were evaluated by using XPS analysis. The morphology of spinel nanoparticles was studied using HR-SEM images. The energy dispersive X-ray method is used for ensuring the presence of elements and the band gap value 2.09, 2.02, 1.85, and 1.82 eV have been obtained using the tau'c relation. The magnesium spinel structure is confirmed in the band at 434 and 561 cm⁻¹ which corresponds to the stretching vibration of the octahedral site (Mg²⁺–O²⁻) and tetrahedral site (Fe³⁺–O²⁻) respectively. From the hysteresis loops the magnetic features viz. H_c, M_r, and M_s were determined. Further dielectric studies and AC conductivity of the prepared samples are performed.





Source details

Journal of Materials Science: Materials in Electronics

Scopus coverage years: from 1990 to Present

Publisher: Springer Nature

ISSN: 0957-4522 E-ISSN: 1573-482X

- Subject area:
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 - Physics and Astronomy: Condensed Matter Physics
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 - Materials Science: Electronic, Optical and Magnetic Materials

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Category	Rank	Percentile
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Condensed Matter Physics	#155/423	63rd

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- Discusses reliability, failure analysis, quality assurance, and characterization in electronics applications.

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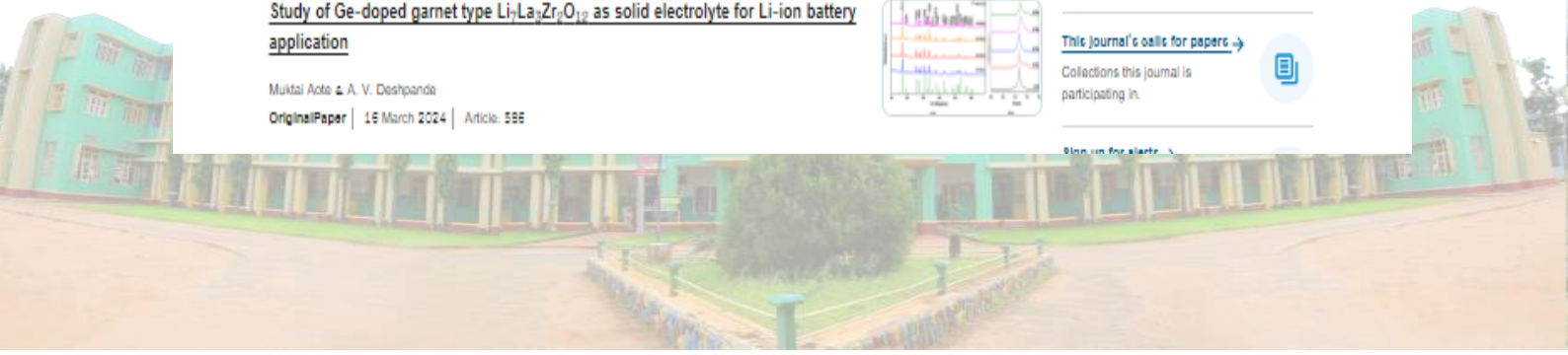
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Investigation on the effect of Potassium on the structural, optical and thermal properties of the L-Threonine Cadmium acetate: Elucidation of organo-cadmium compound for dielectric filters

| Published: 20 January 2023

| Volume 34, article number 181, (2023) [Cite this article](#)

Journal of Materials Science:
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Abstract

In this study, the metal cation potassium-doped organo-cadmium compound has been prepared from the chemical reaction between amino acid and metal complexes by slow evaporation technique. The resultant compound belongs to monoclinic crystal system with two ligancies and a two-fold configuration. The presence of potassium metal via the organo-cadmium compound has been estimated using energy-dispersive X-ray analysis. The optical characteristics and bandgap edges calculations show that it is a good insulator for energy storage applications. The integration of potassium causes disruption within the parent compound's host lattice, resulting in an increase in static permittivity. Furthermore, the influence of potassium increases Fermi velocity, Fermi temperature, and plasma energy, according to theoretical studies. Potassium also improves thermal stability and magnetic properties. Using a Neodymium-doped Yttrium Aluminum Garnet (Nd-YAG) laser, the crystal's nonlinear optical property was investigated.

Source details

Chemistry Africa

Scopus coverage years: from 2018 to Present

Publisher: Springer Nature

ISSN: 2522-5758 E-ISSN: 2522-5766

Subject area: Chemistry: Chemistry (miscellaneous) Chemistry: Physical and Theoretical Chemistry
Environmental Science: Environmental Chemistry Chemical Engineering: Catalysis

Source type: Journal

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Chemistry		
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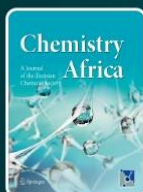
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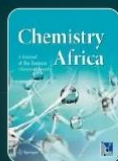
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Comparative Study on Structural, Mechanical, Optical and Dielectric Properties of L-Alanine Cadmium Chloride and Manganese L-Alanine Cadmium Chloride Crystal

| Original Article | Published: 13 May 2023

| Volume 6, pages 3229–3236, (2023) [Cite this article](#)

Chemistry Africa

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Abstract

Here in, we reported the comparative study of L-Alanine Cadmium chloride (ACC) and Manganese L-Alanine Cadmium chloride (MnACC) crystal on its growth, structural, mechanical, optical and dielectric properties for NLO applications. Initially ACC and MnACC single crystals were grown at the ambient temperature by solvent evaporation solution growth technique. Both crystals are members of the monoclinic crystal system, according to an X-Ray Diffraction investigation. The crystals were identified as belonging to the soft material category by Vickers micro hardness investigations, which also measured the crystal's yield strength and tensile strength. Optical studies exhibit lower cut off wavelength and the linear and non linear transmittance enhances in the visible



Source details

Metszet

Scopus coverage years: from 2014 to 2023

Publisher: Artifex Kiado Kft

ISSN: 2061-2710

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Mechanically potent Organo-strontium crystal as optical filters in the Ultraviolet regionT. Retna Kumar¹, M. Abila Jeba Queen^{2,*}, K.C, Bright³ and R. Ilangoan⁴

¹ Department of Nanoscience and Nanotechnology, Alagappa University, Karaikudi-630003, India

² Department of Physics, Holy Cross College (Autonomous), Nagercoil -629004, India.

³ Department of Physics, Mar Ivanio's College, Thiruvananthapuram - 695015, India.

⁴ National Centre for Nanoscience and Nanotechnology, Guindy Campus, University of Madras, Chennai 600025, India

Abstract

Organometallic complex crystals are evolving as a mechanically potent and chemically flexible for optical filters. Here we crystallised Alanine cadmium chloride (ACC) and strontium admixed Alanine cadmium chloride amino metallic crystals by a simple technique at normal atmospheric pressure and temperature. Density measurements of the grown crystals were carried out using the simple flotation technique. On the particular face of (101) plane high mechanical properties achieved for the strontium admixed crystal. Optical properties are analysed by means of the spectroscopic techniques, the higher transmittance in the region 250 -1800 nm. This property and calculated optical parameters favours the material is possible for optical filters in ultra violet region.

Keywords

L-Alanine Cadmium Chloride; Microhardness; Refractive index; Strontium.

Introduction

Single crystals of organometallic compounds have been assessed as a feasible material for an optical and mechanical properties therefore actively researched in the recent years [1, 2]. Organo-strontium is an organometallic compound that contains at least one or more linkage between the strontium carbon bonds. The main application of strontium compound considered as a high beta emitter which prevents X-ray emission [3, 4]. In the medical field also strontium plays an important role such as prevents teeth sensitivity, main composition in bones and dentals [5]. L-Alanine is the simplest and neutral amino acid which exists as zwitterions; it possesses high transparency with favourable mechanical and optical properties crystallized in orthorhombic crystal structure with space group P_{21} and the cell parameters are $a = 6.032 \text{ \AA}$, $b = 12.343 \text{ \AA}$, $c = 5.784 \text{ \AA}$; $\alpha = \beta = \gamma = 90$ [6]. The incorporation of L-Alanine Cadmium chloride and strontium have been developed as a potential organic crystals as organic waveguides in the visible region. As some of the organometallic compounds that stands before as a organic wave guides, their optical, physical and mechanical properties are accessible and tuneable [1].

The single crystal namely L-Alanine Cadmium Chloride was first crystallized by the team of Kathleen et al. [7] and its physico chemical properties are studied by different research groups due to its wide optical applications [8, 9]. The wide varying properties of the compound have been altered and reported by adding different metallic compounds as impurities [10-13]. This review proves that no such report based on the strontium added





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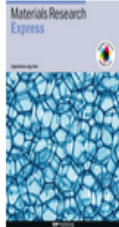
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21 March 2023ACCEPTED FOR PUBLICATION
27 March 2023PUBLISHED
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Tribological and machining characteristics of AA7075 hybrid composites and optimizing utilizing modified PROMETHEE approach

M L Ajin¹, Jebeen Moses^{1,*} and M Priya Dharshini²¹ Mechanical Engineering, St. Xavier's Catholic College of Engineering, Nagercoil, Tamil Nadu, India² Department of Physics, Holy Cross College, Nagercoil, Tamil Nadu, India

* Author to whom any correspondence should be addressed.

E-mail: mlajin86@gmail.com, jebeenmoses@gmail.com and priyadharshini065@gmail.com

Keywords: tribology, surface topography, PROMETHEE, EDM, optimization

Abstract

In this research work an attempt was made to reinforce AA7075 composites with B₄C and SiC particles through stir casting route. SEM with EDS mapping revealed that the reinforcement were uniformly over the composites and hardness reduces with the addition of SiC particles owing to the inverse hall patch effect. The results revealed that wear rate reduces with addition of SiC particles owing to the formation of mechanically mixed layer and protective oxide layer confirmed through SEM with EDAX mapping. Three distinct cracks were formed, when slides at different temperature as confirmed through worn surface morphology, pits cracks and plasticization of material were the other features observed. The used motor oil properties were analyzed and results divulged that the oil suitable for dielectric fluid. Increase in Material Removal Rate (MRR), reduction in Tool Wear Ratio (TWR) and Surface Roughness (Ra) was observed with the incorporation of powder particles owing to the bridging effect. Black spots, craters, micro pits, globules and micro crack are the distinct observed on the machined surface topography. The modified Preference Ranking Organization METHod for Enrichment of Evaluations (PROMETHEE) optimization technique was utilized to find the optimal parametric combination.

Introduction

Aluminium Matrix Composites (AMC) were in great demand in the aerospace sector because of their high strength-to-weight ratio, improved tribological and mechanical properties [1]. The reinforcements were in the form of particulates, fibres and whiskers; powder metallurgy, casting, *in situ* fabrication and laminates are the distinct method utilized for the production of composites [2]. Attaining uniform distribution of reinforcement over the matrix material was the challenging task [3]. Preheating and addition of flux increases the wettability of composites. Stir casting, two step stir casting, ultrasonic stir casting, and electromagnetic stir casting are some of the stir casting technologies used in composite manufacturing [4–7]. In the stir casting technique, the mixture was heated to the molten state before being stirred by the mechanical stirrer [8]. In two step stir casting process, the material was heated above the liquidus temperature, and to keep the slurry semi-solid, it was gradually cooled below the liquidus temperature. Manual mixing was performed after the preheated particles were introduced. After reheated the composite slurry to a liquid state, mechanical mixing was performed for the prescribed time [9]. In the process of compo casting, the charge was heated to the alloy's melting point before being cooled to a semi-solid condition (0%–33% in solid fraction), using a paddle-like blade, semi-solid composites were whirled [10]. The electromagnetic field was produced by AC induction motor which was used for stirring of matrix and reinforcement hence uniform dispersion achieved [11]. An ultrasonic aided probe was employed for mixing in ultrasonic vibration followed by conventional stirring [12].

One of the most common industrial problems is wear, where the primary factors influencing the wear rate are velocity, temperature, distance and operating load. Composite pins wear less when lubricated, compared to unlubricated and abrasive surfaces [13]. When the particulates were added, it enhances the wear resistance because of the formation of Mechanically Mixed Layer (MML). Wear rate transfer from mild to severe when this



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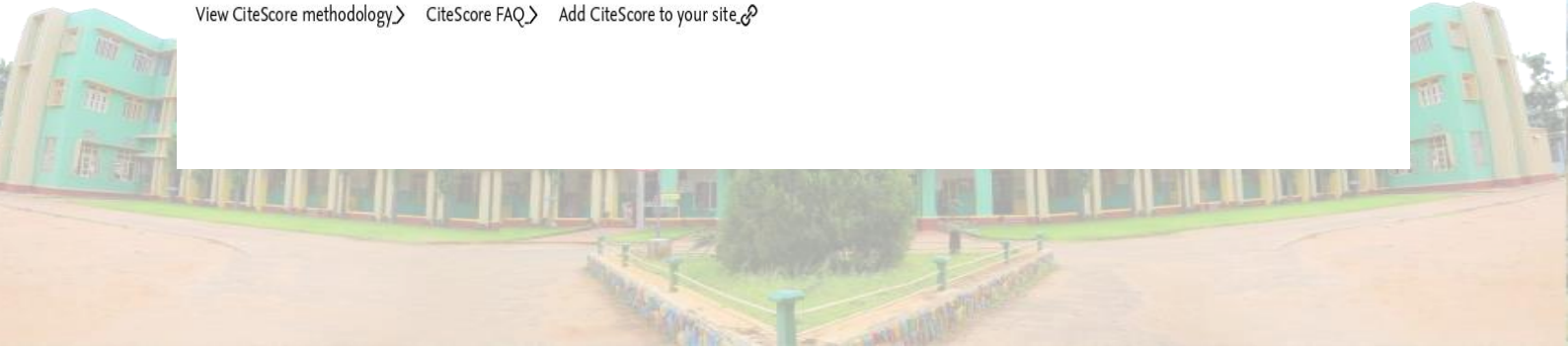
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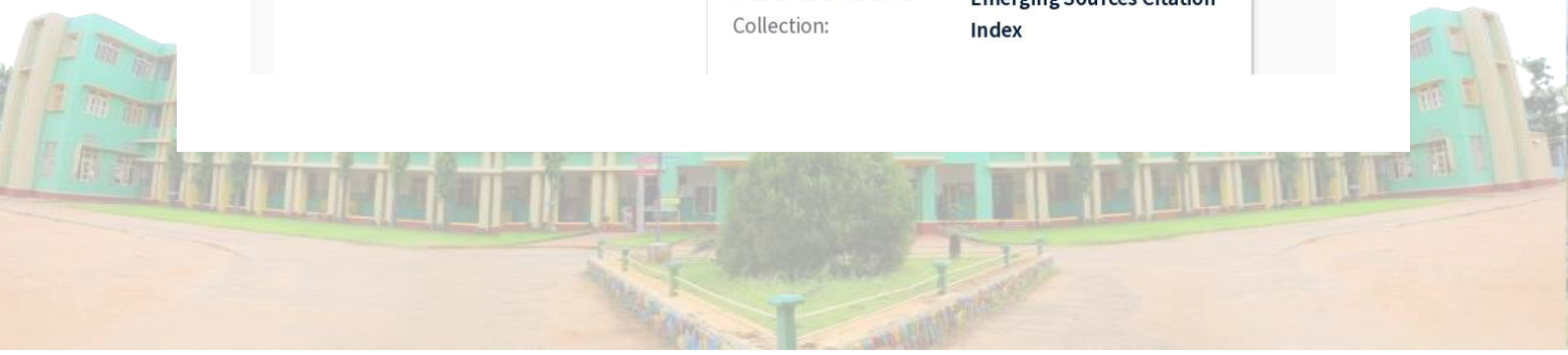
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Investigation on Properties of Raw and Alkali Treated Novel Cellulosic Root Fibres of Zea Mays for Polymeric Composites

S. Anne Kavitha ¹, R. Krishna Priya ^{1,*}, Krishna Prakash Arunachalam ², Siva Avudaiappan ^{3,4,5}, Nelson Maureira-Carsalade ⁶ and Ángel Roco-Videla ^{7,*}

- ¹ PG & Research Department of Physics, Holy Cross College (Autonomous), Nagercoil, Manonmaniam Sundaranar University, Tirunelveli 627012, India
² Department of Civil Engineering, University College of Engineering, Anna University, Nagercoil 629004, India
³ Departamento de Ingeniería Civil, Universidad de Concepción, Concepción 4070386, Chile
⁴ Centro Nacional de Excelencia para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Santiago 8330024, Chile
⁵ Department of Physiology, Saveetha Dental College and Hospitals, SIMATS, Chennai 600077, India
⁶ Departamento de Ingeniería Civil, Universidad Católica de la Santísima Concepción, Concepción 4090541, Chile
⁷ Facultad de Salud y Ciencias Sociales, Universidad de las Américas, Providencia, Santiago 7500975, Chile
 * Correspondence: rkrisnapriya@protonmail.com (R.K.P.); aroco@udla.cl (Á.R.-V.)

Abstract: Today, new materials based on natural fibres have been emerging day by day to completely eradicate plastics to favour our environmental nature. In this view, the present work is based on the extraction and characterisation of the novel root fibres of the Zea mays (Zm) plant, grown by the hydroponic method. Both the dried untreated and alkali treated root fibres are investigated using a variety of structural, morphological, thermal, elemental and mechanical tests by subjecting both the samples to p-XRD, FT-IR, SEM-EDAX, TGA-DTA, CHNS and tensile strength analyses. Thermal conductivity of the untreated and treated fibres is found using Lee's disc experiment. From p-XRD analysis, the Crystallinity Index, Percentage Crystallinity and Crystallite size of the samples are found. FT-IR studies clarify the different vibrational groups associated with the fibre samples. SEM images show that the surface roughness increases for the chemically treated samples, such that it may be effectively utilised as reinforcement for polymeric composites. The diameter of the fibre samples is found using SEM analysis. According to the EDAX spectrum, Zm fibres in both their raw and processed forms have high levels of Carbon (C) and Oxygen (O). The TGA-DTA tests revealed that the samples of natural fibre have good thermal characteristics. CHNS studies show that Carbon content is high for these samples, which is the characteristic of many natural fibres. Chemical analysis is used to ascertain the prepared samples' chemical makeup. It reveals that both samples have significant amounts of cellulose. The density of the fibres is found to be in the range 0.3–0.6 g/cc, which is much less than any other natural fibre. Therefore, it can be used in light weight applications. From the tensile strength analysis, physical properties such as Young's modulus and micro-fibril angle are determined. The fibres in the roots exhibit a lower tensile strength. Thus, these fibres can be used in powdered form as reinforcement for natural rubber or epoxy composites. After examining all of its properties, it could be reasonably speculated that Zea mays root fibres can be considered as an efficient reinforcement for various matrices to produce attractive bio-composites.

Keywords: Zea mays (Zm); root fibres; structural; TGA-DTA; light weight; reinforcement



Citation: Kavitha, S.A.; Priya, R.K.; Arunachalam, K.P.; Avudaiappan, S.; Maureira-Carsalade, N.; Roco-Videla, Á. Investigation on Properties of Raw and Alkali Treated Novel Cellulosic Root Fibres of Zea Mays for Polymeric Composites. *Polymers* **2023**, *15*, 1802. <https://doi.org/10.3390/polym15071802>

Academic Editors: Anamaria Irimia and Carmen-Mihaela Popescu

Received: 26 February 2023

Revised: 29 March 2023

Accepted: 30 March 2023

Published: 6 April 2023



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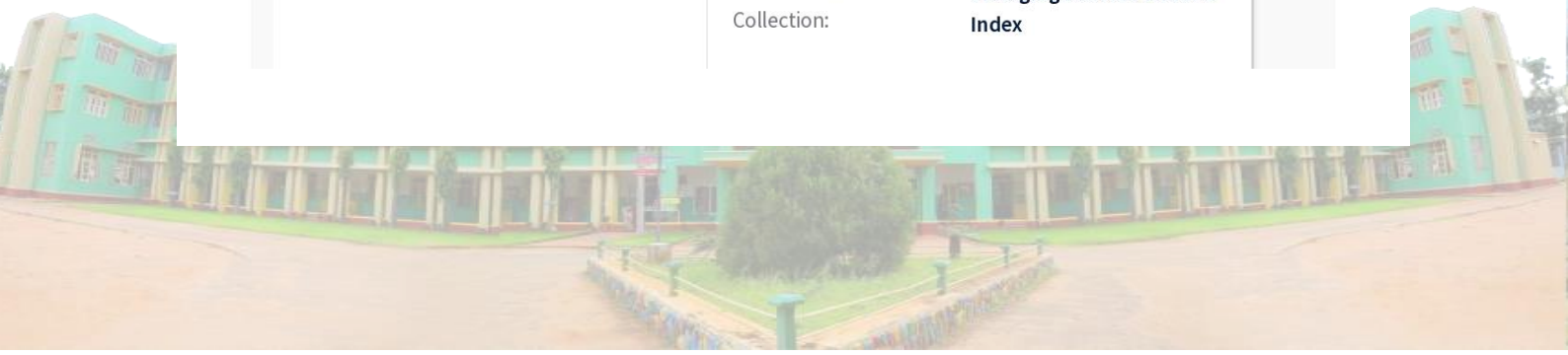
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Article

Characterisation of Sodium Acetate Treatment on *Acacia pennata* Natural Fibres

Kasirajan Rajam Jaya Sheeba ¹, Retnam Krishna Priya ^{1,*}, Krishna Prakash Arunachalam ², Siva Avudaiappan ^{3,4,5}, Nelson Maureira-Carsalade ⁶ and Ángel Roco-Videla ^{7,*}

¹ PG & Research Department of Physics, Holy Cross College (Autonomous), Manonmaniam Sundaranar University, Nagercoil 627012, Tamil Nadu, India

² Department of Civil Engineering, College of Engineering Nagercoil, Anna University, Kanyakumari 629004, India; krishnaprakash3191@gmail.com

³ Departamento de Ingeniería Civil, Universidad de Concepción, Concepción 4070409, Chile

⁴ Centro Nacional de Excelencia para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Santiago 8330024, Chile

⁵ Department of Physiology, Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai 600077, India

⁶ Departamento de Ingeniería Civil, Universidad Católica de la Santísima Concepción, Concepción 4090541, Chile

⁷ Facultad de Salud y Ciencias Sociales, Universidad de las Américas, Providencia, Santiago 7500975, Chile

* Correspondence: rkrishnapriya@protonmail.com (R.K.P.); aroco@udla.cl (Á.R.-V.)

Abstract: The present study concerns the physico-chemical, structural, mechanical and thermal characterization of *Acacia pennata*, a natural and almost inexpensive fibre, as a potential reinforcement in polymer composites. The effect of treating the fibre with sodium acetate to increase its qualities has been seen through the use of thermogravimetric analysis, scanning electron microscope (SEM) analysis, X-ray diffraction (XRD), mechanical property tester, and Fourier transform infrared spectroscopy (FTIR). According to XRD analysis, the elimination of lignin and wax-like impurities resulted in an increase in the AP fibre's crystalline index (79.73%). The fibre's thermal stability was also discovered to be 365 °C. Tensile strength (557.58 MPa) and elongation at break both increased by 2.9% after treatment with sodium acetate. The surface nature and quality of AP fibres improved after sodium acetate treatment. It was confirmed by the reduction of chemical compositions (such as hemicellulose, lignin and pectin). Given its density, the fibre can be suggested as a reinforcement in polymer composites for light-weight applications because its lightweight property will be more useful for composite manufacturing.

Keywords: chemical composition; X-ray diffraction; fourier transform infrared spectroscopy; thermal stability; tensile strength



Citation: Sheeba, K.R.J.; Priya, R.K.; Arunachalam, K.P.; Avudaiappan, S.; Maureira-Carsalade, N.; Roco-Videla, Á. Characterisation of Sodium Acetate Treatment on *Acacia pennata* Natural Fibres. *Polymers* **2023**, *15*, 1996. <https://doi.org/10.3390/polym15091996>

Academic Editor: Sunil Kumar Ramamoorthy

Received: 28 February 2023

Revised: 14 April 2023

Accepted: 17 April 2023

Published: 23 April 2023



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1. Introduction

In recent years, interest in the powerful use of bio-polymeric materials has expanded significantly. Natural fibres, sometimes referred to as non-wood lignocellulose materials, are being researched as potential environmentally friendly composites that could reduce or replace synthetic fibres and polymers. Environmentally friendly materials have come into consideration as a result of rising environmental awareness and public interest, new environmental rules, and unsustainable petroleum consumption. Natural fibre is regarded as one of the eco-friendlier materials with superior qualities to synthetic fibre [1]. Natural fibres are fibres that are not artificial or synthetic. They may come from either plants or animals [2]. The production of composite materials using natural fibres such as jute, flax, sisal and oil palm, both renewable and non-renewable resources, has attracted a lot of attention in recent decades [3–5].



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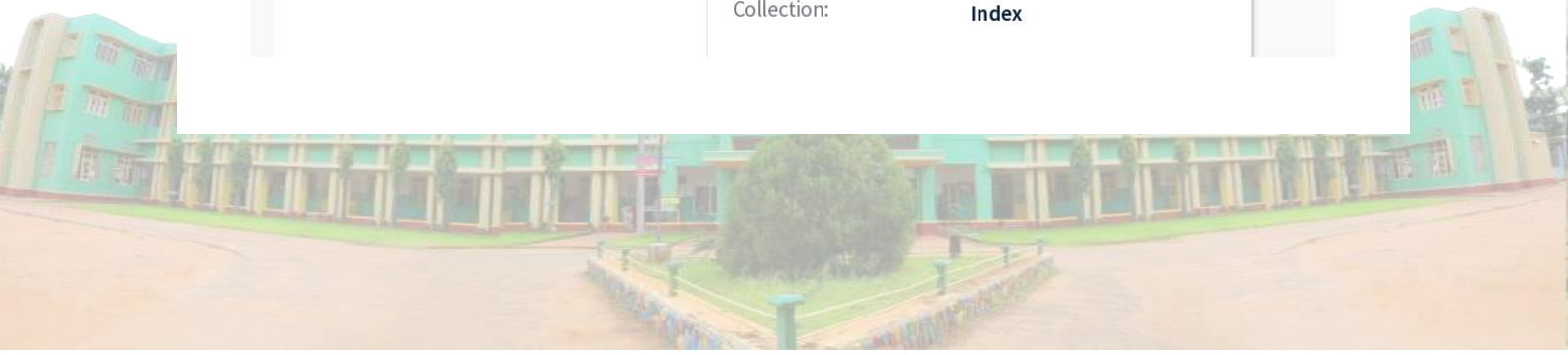
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Biodegradable Green Composites: Effects of Potassium Permanganate (KMnO₄) Treatment on Thermal, Mechanical, and Morphological Behavior of Butea Parviflora (BP) Fibers

M. Abisha ¹, R. Krishna Priya ^{1,*}, Krishna Prakash Arunachalam ², Siva Avudaiappan ^{3,4,5}, Erick I. Saavedra Flores ⁶ and Pablo Fernando Parra ⁷

¹ PG & Research Department of Physics, Holy Cross College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli 627012, India

² Department of Civil Engineering, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India; krishnaprakash3191@gmail.com

³ Departamento de Ingeniería Civil, Universidad de Concepción, Concepción 4070386, Chile

⁴ Centro Nacional de Excelencia para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Santiago 8330024, Chile

⁵ Department of Physiology, Saveetha Dental College and Hospitals, SIMATS, Chennai 600077, India

⁶ Departamento de Ingeniería en Obras Civiles, Universidad de Santiago de Chile, Av. Ecuador 3659, Estación Central, Santiago 8320000, Chile

⁷ Faculty of Engineering and Sciences, Universidad Adolfo Ibáñez, Santiago 7941169, Chile

* Correspondence: rkrishnapriya@protonmail.com



Citation: Abisha, M.; Priya, R.K.; Arunachalam, K.P.; Avudaiappan, S.; Saavedra Flores, E.I.; Parra, P.F. Biodegradable Green Composites: Effects of Potassium Permanganate (KMnO₄) Treatment on Thermal, Mechanical, and Morphological Behavior of Butea Parviflora (BP) Fibers. *Polymers* **2023**, *15*, 2197. <https://doi.org/10.3390/polym15092197>

Academic Editor: Kristine V. Aleksanyan

Received: 20 March 2023

Revised: 17 April 2023

Accepted: 22 April 2023

Published: 5 May 2023



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Abstract: This study emphasizes the importance of utilizing biodegradable material Butea parviflora (BP) fiber for sustainable solutions. BP fiber offers numerous ecological benefits, such as being lightweight, biodegradable, and affordable to recycle. The study examines the effects of potassium permanganate (KMnO₄) treatment on BP fiber and analyzes its physical and chemical behavior using various methods, including X-ray Diffraction (XRD) analysis, tensile testing, thermogravimetric analysis, thermal conductivity, Scanning Electron Microscopy (SEM), and Fourier Transform Infrared spectroscopic (FTIR) analysis. The results demonstrate that BP fiber possesses low density (1.40 g/cc) and high cellulose content (59.4%), which fosters compatibility between the matrix and resin. XRD analysis indicates a high crystallinity index (83.47%) and crystallite size (6.4 nm), showcasing exceptional crystalline behavior. Treated fibers exhibit improved tensile strength (198 MPa) and Young's modulus (4.40 GPa) compared to untreated fibers (tensile strength—92 MPa, tensile modulus—2.16 GPa). The Tg-DTA thermograms reveal the fiber's thermal resistance up to 240 °C with a kinetic activation energy between 62.80–63.46 KJ/mol. Additionally, the lowered thermal conductivity (K) from Lee's disc experiment suggests that BP fiber could be used in insulation applications. SEM photographic results display effective surface roughness for composite making, and FTIR studies reveal vibrational variations of cellulosic functional groups, which correlates with increased cellulosic behavior. Overall, the study affirms the potential of BP fiber as a reinforcing material for composite-making while emphasizing the importance of utilizing biodegradable materials for sustainability.

Keywords: cellulosic fiber; crystallinity; sustainability; green composites

1. Introduction

Technological advancement provides valuable resources along with ruins that are primarily non-biodegradable. There are high hopes that bio composites infused with natural fibers will attain a pollution-free environment and reduce synthetic acquisition. Reduced mass fraction and density are the two key variables that prioritize the use of natural fibers as reinforcements. A key factor that impacts the utility and availability of product in the market is its structural design, which is predominantly overtaken by synthetic materials. Now, the natural fiber composites are turning out to be trend-setters with their adaptability



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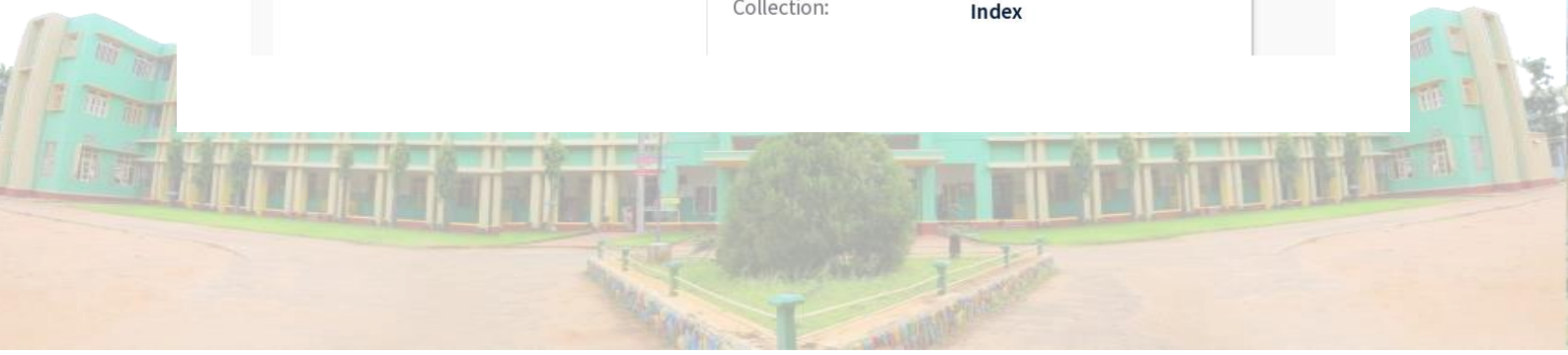
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Article

Investigating the Mechanical, Thermal, and Crystalline Properties of Raw and Potassium Hydroxide Treated Butea Parviflora Fibers for Green Polymer Composites

Abisha Mohan ¹, Retnam Krishna Priya ^{1,*}, Krishna Prakash Arunachalam ^{2,*}, Siva Avudaiappan ^{3,4,5}, Nelson Maureira-Carsalade ⁶ and Angel Roco-Videla ^{7,*}

- ¹ PG & Research Department of Physics, Holy Cross College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli 627012, India; mabisha@proton.me
 - ² Department of Civil Engineering, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India
 - ³ Departamento de Ingeniería Civil, Universidad de Concepción, Concepción 4070386, Chile; savudaiappan@udec.cl
 - ⁴ Centro Nacional de Excelencia para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Santiago 8330024, Chile
 - ⁵ Department of Physiology, Saveetha Dental College and Hospitals, SIMATS, Chennai 600077, India
 - ⁶ Departamento de Ingeniería Civil, Universidad Católica de la Santísima Concepción, Concepción 4090541, Chile
 - ⁷ Facultad de Salud y Ciencias Sociales, Universidad de las Américas, Providencia, Santiago 7500975, Chile
- * Correspondence: rkrishnapriya@protonmail.com (R.K.P.); krishnaprakash3191@gmail.com (K.P.A.); aroco@udla.cl (A.R.-V.)



Citation: Mohan, A.; Priya, R.K.; Arunachalam, K.P.; Avudaiappan, S.; Maureira-Carsalade, N.; Roco-Videla, A. Investigating the Mechanical, Thermal, and Crystalline Properties of Raw and Potassium Hydroxide Treated Butea Parviflora Fibers for Green Polymer Composites. *Polymers* **2023**, *15*, 3522. <https://doi.org/10.3390/polym15173522>

Academic Editor: Raffaella Striani

Received: 24 June 2023

Revised: 13 August 2023

Accepted: 17 August 2023

Published: 24 August 2023



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Abstract: The only biotic factor that can satisfy the needs of human species are plants. In order to minimize plastic usage and spread an immediate require of environmental awareness, the globe urges for the development of green composite materials. Natural fibers show good renewability and sustainability and are hence utilized as reinforcements in polymer matrix composites. The present work concerns on the usage of Butea parviflora fiber (BP), a green material, for high end applications. The study throws light upon the characterization of raw and potassium hydroxide (KOH)-treated Butea Parviflora plant, where its physical, structural, morphological, mechanical, and thermal properties are analyzed using the powder XRD, FTIR spectroscopy, FESEM micrographs, tensile testing, Tg-DTA, Thermal conductivity, Chemical composition, and CHNS analysis. The density values of untreated and KOH-treated fibers are 1.238 g/cc and 1.340 g/cc, respectively. The crystallinity index of the treated fiber has significantly increased from 83.63% to 86.03%. The cellulose content of the treated fiber also experienced a substantial increase from 58.50% to 60.72%. Treated fibers exhibited a reduction in both hemicelluloses and wax content. Spectroscopic studies registered varying vibrations of functional groups residing on the fibers. SEM images distinguished specific changes on the raw and treated fiber surfaces. The Availability of elements Carbon, Nitrogen, and Hydrogen were analyzed using the CHNS studies. The tensile strength and modulus of treated fibers has risen to 192.97 MPa and 3.46 Gpa, respectively. Thermal conductivity (K) using Lee's disc showed a decrement in the K values of alkalinized BP. The activation energy E_a lies between 55.95 and 73.15 kJ/mol. The fibers can withstand a good temperature of up to 240 °C, presenting that it can be tuned in for making sustainable composites.

Keywords: green composites; stem fiber; crystallinity; thermal behavior; reinforcement material

1. Introduction

For centuries, the distinctive characteristics of natural fibers have made them valuable for diverse purposes. The properties of natural fibers, including their mechanical, physical, and chemical attributes, are contingent on factors such as the specific fiber type, the plant



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Physico-chemical and extraction properties on alkali-treated *Acacia pennata* fiber

K.R. Jaya Sheeba^{a,b,1}, Jagadeesh Kumar Alagarasan^{c,1}, Jeyaprakash Dharmaraja^d, S. Anne Kavitha^{a,b}, Sutha Shobana^e, Sundaram Arvindnarayan^f, Manoharan Vadivel^g, Moonyong Lee^c   Krishna Priya Retnam^{a,b}  

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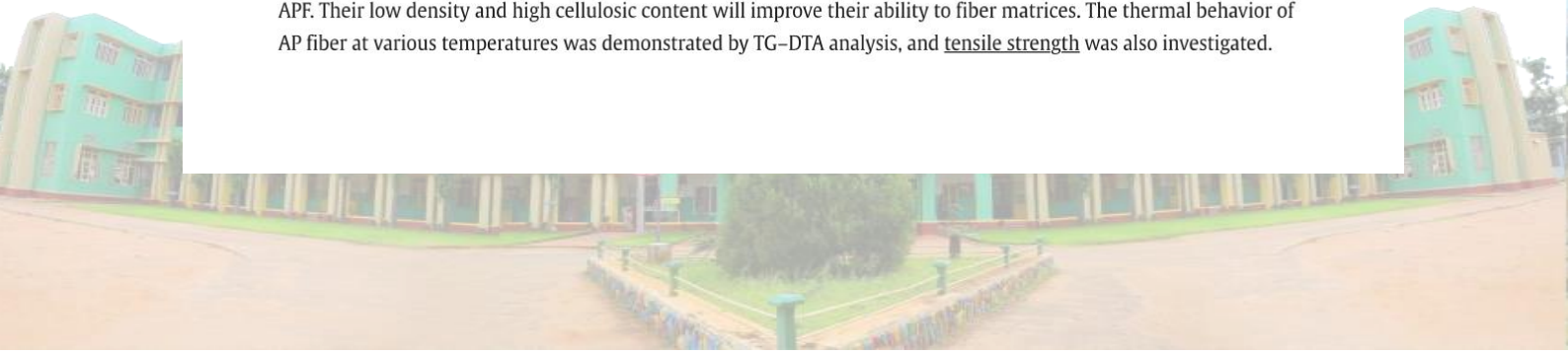
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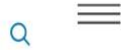
Highlights

- Optimization of water treatment and alkali treatment of *Acacia pennata* fibers.
- Relatively high crystallinity index (54.65%) was found for alkali-treated APF.
- TGA established the thermal stability to withstand polymerization temperature.
- High cellulose content of APF provides good mechanical and tensile strength.
- Low density of untreated and alkali-treated APFs promotes light-weight applications.

Abstract

The production of reinforced composite materials can generally benefit greatly from the use of natural cellulosic woody fibers as good sustainable resources. Natural plants like hemp, cotton, and bamboo are great options for knitters and crocheters looking to make eco-friendly goods. The current study examines the properties of natural fiber obtained from the stem of the *Acacia pennata* (AP) plant, as well as its basic physico-chemical, structural, thermal, and mechanical characteristics. The key goal of this work was to investigate how alkali treatment affected the AP fibers' morphology, chemical composition, tensile capabilities, morphological changes, and thermal degradation (APFs). The SEM image and pXRD analyses support the improved surface roughness of the fiber, and that was seen after the alkaline treatment. From XRD analysis, the fiber crystallinity index (54.65%) was improved and it was connected to their SEM pictograms in comparison to untreated APF. Alkali-treated AP fibers include a higher percentage of chemical components including cellulose (51.38%) and ash (5.13%). Alkali-treated AP fibers have a lower amount of hemi-cellulose (30.30%), lignin (20.96%), pectin (8.77%), wax (0.12%), and moisture (13.44%) than untreated APF. Their low density and high cellulosic content will improve their ability to fiber matrices. The thermal behavior of AP fiber at various temperatures was demonstrated by TG-DTA analysis, and tensile strength was also investigated.





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Exploring the growth kinetics of novel and diverse morphologies in nickel oxide nanostructures

S. Virgin Jeba^a, S. Sonia^a, D. Sivaganesh^b, Naidu Dhanpal Jayram^c, C.G. Jinita^a, R. Ramachandran^d, N. Annlin Bezy^a, T. Satheesh Kumar^a, A. Lesly Fathima^a  

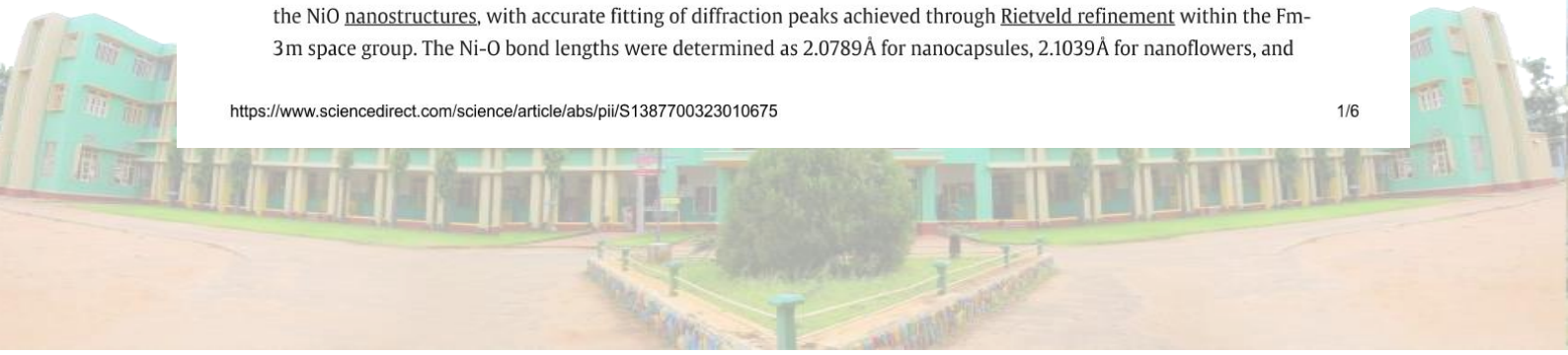
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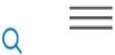
Highlights

- The hydrothermal synthesis method was employed to fabricate NiO nanostructures including nanoflowers, nanocapsules, and nanosnakes.
- A unique morphology, referred to as “nanosnakes,” was successfully synthesized and reported for the first time in this study.
- The growth mechanism of the synthesized nanoflowers, nanocapsules, and nanosnakes was elucidated, highlighting the involvement of crystallization, Ostwald ripening, and self-assembly processes.
- Rietveld refinement analysis was employed to determine the structural parameters of NiO nanostructures, providing precise information about their crystal structure, lattice parameters, and phase purity.
- The chemical bonding nature of NiO nanoflowers, nanocapsules, and nanosnakes was analyzed, and the 3D unit cells of these structures were displayed, providing valuable insights into their crystal structure and arrangement.

Abstract

This study focuses on the synthesis and characterization of nickel oxide (NiO) nanostructures with diverse morphologies, including nanoflowers, nanocapsules, and nanosnakes, achieved through a cost-effective hydrothermal method. Structural analysis using X-ray diffraction (XRD) confirmed the face-centered cubic crystal (FCC) structure of the NiO nanostructures, with accurate fitting of diffraction peaks achieved through Rietveld refinement within the Fm-3m space group. The Ni-O bond lengths were determined as 2.0789Å for nanocapsules, 2.1039Å for nanoflowers, and





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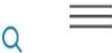
OPEN Examining the physico-chemical, structural and thermo-mechanical properties of naturally occurring *Acacia pennata* fibres treated with KMnO_4

K. R. Jaya Sheeba¹, Retnam Krishna Priya², Krishna Prakash Arunachalam², S. Shobana³, Siva Avudaiappan^{4,5,6} & Erick Saavedra Flores⁷

Natural fiber is a viable and possible option when looking for a material with high specific strength and high specific modulus that is lightweight, affordable, biodegradable, recyclable, and eco-friendly to reinforce polymer composites. There are many methods in which natural fibres can be incorporated into composite materials. The purpose of this research was to evaluate the physico-chemical, structural, thermal, and mechanical properties of *Acacia pennata* fibres (APFs). Scanning electron microscopy was used to determine the AP fibers' diameter and surface shape. The crystallinity index (64.47%) was discovered by XRD. The irregular arrangement and rough surface are seen in SEM photos. The findings demonstrated that fiber has high levels of cellulose (55.4%), hemicellulose (13.3%), and low levels of lignin (17.75%), which were determined through chemical analysis and validated by Fourier Transform Infrared Spectroscopy (FTIR). By using FTIR, the functional groups of the isolated AP fibers were examined, and TG analysis was used to look into the thermal degrading behaviour of the fibers treated with potassium permanganate (KMnO_4). Due to their low density (520 kg/m^3) and high cellulose content (55.4%), they have excellent bonding qualities. Additionally, tensile tests were used for mechanical characterisation to assess their tensile strength (685 MPa) and elongation.

Our living planet Earth is the source of abundant wealth and resources. It provides shelter for over seven million species of plants and animals. Today's diverse cellulose fibers, which have evolved over the past few decades and include flax, hemp, sisal, cotton, kenaf, jute, bamboo, coconut, and date palm, provide a variety of advantages over synthetic fibers (mostly glass, carbon, and plastic) due to their renewable nature^{1, 2}. A number of natural fiber materials can be distinguished by their place of origin in nature. According to specific classifications made by researchers³⁻⁸ these materials fall into three categories: fibers produced from animals, minerals, and plants. These fibers are used in a variety of composite material manufacturing processes⁹⁻¹³. In comparison to standard reinforcing materials, natural fibres have greater thermal and acoustic insulating qualities, an acceptable specific strength, cheap cost, and low density¹⁴⁻¹⁸. The maturity and origin of the plant, as well as the methods and techniques used to extract the fiber from the stem, still affect the mechanical properties of the fibers¹⁹. For every good alternative material without sacrificing the mechanical properties of the fiber, these are some better fiber-yielding plants that are reasonably priced. *Acacia pennata* (AC) is one such plant, and it is most readily available in tropical

¹PG & Research Department of Physics, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmanium Sundaranar University, Tirunelveli, Tamil Nadu 629004, India. ²Department of Civil Engineering, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India. ³Green Technology and Sustainable Development in Construction Research Group, Van Lang School of Engineering and Technology, Van Lang University, Ho Chi Minh City, Viet Nam. ⁴Departamento de Ingeniería Civil, Universidad de Concepción, 4070386 Concepción, Chile. ⁵Centro Nacional de Excelencia Para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, 8331150 Santiago, Chile. ⁶Department of Physiology, Saveetha Dental College and Hospitals, SIMATS, Chennai 600077, India. ⁷Departamento de Ingeniería en Obras Civiles, Universidad de Santiago de Chile, Av. Ecuador 3659, Estación Central, Santiago, Chile. ✉email: krishnapriya@holycrossngl.edu.in; savudaiappan@udec.cl



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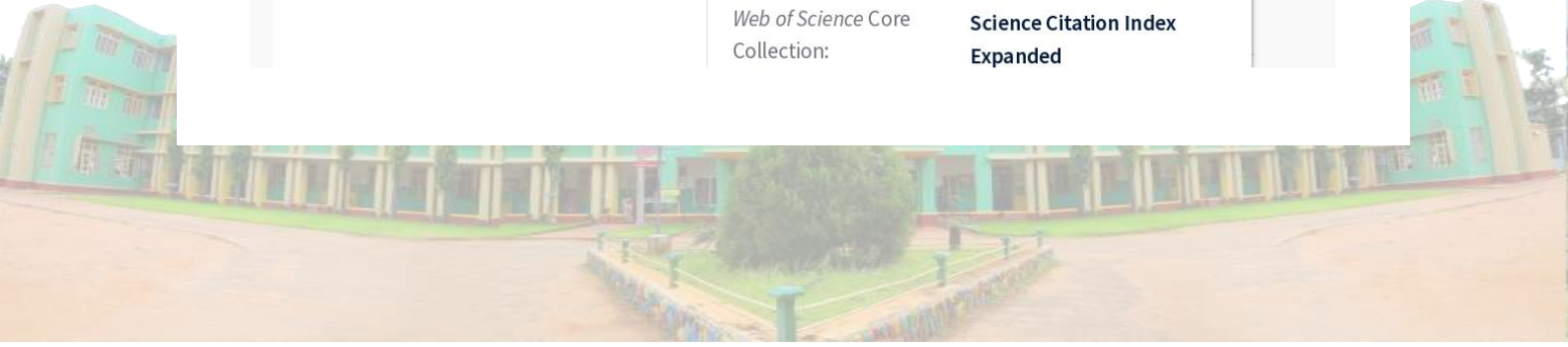
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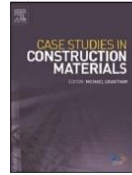
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Enhancing structural, thermal, and mechanical properties of Acacia pennata natural fibers through benzoyl chloride treatment for construction applications

K.R. Jaya Sheeba^a, **R. Krishna Priya^{b,*}**, Krishna Prakash Arunachalam^{b,*},
Siva Avudaiappan^{c,d,e}, Erick Saavedra Flores^f, Pavel Kozlov^g

^a PG & Research Department of Physics, Holy Cross College (Autonomous), Nagercoil – Affiliated to Manonmanium Sundaranar University, Tirunelveli - 627012, Tamil Nadu, India

^b Department of Construction Sciences, Universidad Tecnológica Metropolitana, Dieciocho 161, Santiago, Chile

^c Departamento de Ingeniería Civil, Universidad de Concepción, Concepción 4070386, Chile

^d Centro Nacional de Excelencia para la Industria de la Madera (CENAMAD), Pontificia Universidad Católica de Chile, Av. Vicuña Mackenna 4860, Santiago 8331150, Chile

^e Department of Physiology, Saveetha Dental College and Hospitals, SIMATS, Chennai 600077, India

^f Departamento de Ingeniería en Obras Civiles, Universidad de Santiago de Chile, Av. Ecuador 3659, Estación Central, Santiago, Chile

^g Polytechnic Institute, Far Eastern Federal University, Vladivostok 690922, Russia

ARTICLE INFO

Keywords:

Acacia pennata
Benzoyl chloride
Crystallinity index
Tensile strength and thermal stability

ABSTRACT

In recent years, there has been growing interest in exploring natural fiber reinforced composites as potential alternatives to conventional materials in various structural applications. The aim of this study on Acacia pennata fibers (APFs) and treating them with benzoyl chloride was to explore their potential as reinforcement in construction-related materials. The aim was to investigate the physico-chemical, thermal, and mechanical properties of these fibers to understand their suitability for applications in concrete reinforcement, retrofitting, roofing, and wall panels. By enhancing the understanding of the treated fibers' characteristics, this study contributes to the development of sustainable and high-performance construction materials. The fibers were extracted using both water retting and chemical retting methods. The physico-chemical properties of the fibers were assessed through X-ray diffraction (XRD) analysis, which determined a calculated crystalline index (CI) of 72.14% and a crystalline size of 2.6 nm. Thermo-gravimetric analysis was conducted to evaluate the thermal stability of the APFs, revealing a temperature of 366°C and a maximum degradation temperature of 226.7°C. Mechanical analysis included measurements of the APFs' tensile strength (467.86 MPa), tensile modulus (14.62 GPa), microfibrillar angle (14.79), and elongation at break (3.2%). The findings derived from these analyses suggest that the APFs that underwent treatment exhibit desirable mechanical characteristics, rendering them a viable option for utilization in construction-related materials like reinforcement in concrete, retrofitting, roofing and wall Panels. This research presents a novel exploration of Acacia pennata fibers (APFs) treated with benzoyl chloride, aiming to establish their potential as reinforcements for construction materials. While natural fiber-reinforced composites have drawn interest, the unique application of APFs in construction and their treatment with benzoyl chloride to enhance properties remain relatively unexplored in the literature. This study fills a significant

* Corresponding authors.

E-mail addresses: rkrishnapriya@protonmail.com (R.K. Priya), krishnaprakash3191@gmail.com (K.P. Arunachalam).

<https://doi.org/10.1016/j.cscm.2023.e02443>

Received 9 March 2023; Received in revised form 27 July 2023; Accepted 30 August 2023

Available online 1 September 2023

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Chitosan's Structural Properties which Extracted from Marine Crustacean

N.Annlin Bezy¹, S.Jasvy¹, S.Virgin Jeba² and A.Lesly Fathima^{2*}

¹Research Scholar (Reg. No. 20213042132006), Department of Physics, Holy Cross College, Nagercoil, (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

²Assistant Professor, Department of Physics, Holy Cross College, Nagercoil (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

Received: 25 Aug 2023

Revised: 20 Sep 2023

Accepted: 22 Nov 2023

*Address for Correspondence

A.Lesly Fathima

Assistant Professor,

Department of Physics,

Holy Cross College, Nagercoil

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli),

Tamil Nadu, India.

E.mail: leslysat@gmail.com



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ABSTRACT

Chitosan, a polysaccharide derived from shells including crab, lobster, fish scales, and shrimp, is being used to produce improved products in paint, food, agriculture, textile industries, and in water treatment. This study's goal is to improve chitosan's capacity to meet the demands in diverse fields. Chitosan is extracted by undergoing demineralizing, deproteinizing, and deacetylating of fresh shrimp shell that has been harvested locally. The FTIR and XRD measurements are made to confirm the isolated material is chitosan. The NH stretching and amide group is the major bond in chitosan and is observed in the taken FTIR. The SEM reveals the morphology of obtained chitosan has uniform-sized porous. The extracted chitosan can be utilized for both home and industrial purposes, including filters, energy storage, medicine administration, etc., because of the porosity distributed over its surface. Chitosan's photoluminescence emission is found in 594 nm, which comes under the green shift region. In EDAX elements Carbon, Nitrogen, and Oxygen are detected that form the polysaccharide chain chitosan. Thus, the chitosan was successfully extracted with improved morphology from shrimp shells by eliminating the calcium and protein contents.

Keywords: Shrimp shell, Fourier Transform Infrared, Scanning Electron Microscopy, Filtration, Porous



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Turkey Femur Bone Derived Hydroxyapatite: an Efficient Catalyst for Toxic Dye Degradation

V.Bhuvaneshwari¹ and S.Sonia^{2*}

¹Research Scholar (Reg. No. 20213042132007), Department of Physics, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Tirunelveli) Tamil Nadu, India.

²Assistant Professor, Department of Physics, Holy Cross College, (Autonomous), Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

Received: 18 Aug 2023

Revised: 20 Sep 2023

Accepted: 25 Nov 2023

*Address for Correspondence

S.Sonia

Assistant Professor,
Department of Physics,
Holy Cross College, (Autonomous),
Nagercoil, Kanyakumari District
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli),
Tamil Nadu, India.
E.mail: sonianst@gmail.com



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ABSTRACT

Water pollution has emerged as a critical global crisis due to various contaminating factors, especially from textile industries. The release of toxic dyes into water bodies causes significant environmental damage. This study focuses on the extraction of hydroxyapatite from turkey femur bone using a direct calcination process. X-ray diffraction analysis of the extracted HAp confirms the hexagonal structure with space group of P63/m and reveals agglomerated particles averaging 77.3 nm in size via scanning electron microscopy. Elemental analysis validates the presence of calcium, oxygen, and phosphorus elements. Identification of functional groups is analyzed through FTIR analysis. UV-Vis analysis provides valuable insights into absorbance and bandgap values. In terms of practical application, the extracted HAp showcases significant potential as a catalyst in the treatment of wastewater by photocatalytic experiment. Evidently, its efficiency in decomposing congo red and methylene blue dyes is significant, displaying degradation percentages of 90.5% and 99.4% respectively. These findings proved the remarkable catalytic potential of hydroxyapatite derived from femur bones.

Keywords: Turkey bone, Calcination, Optical properties, Waste water treatment, Photocatalysis,



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From Agri-Waste to High-Performance Material: Synthesis of Rice Husk Activated Carbon (RAC) and Rice Husk Activated Carbon / Copper Oxide (RACU) for Electrochemical Performance

Jinitha C.G¹, Abisha.P² and **Sonia S^{3*}**

¹Research Scholar (Reg. No. 19213042132016), Department of Physics, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli) Tamil Nadu, India.

²Research Scholar (Reg. No. 20213042132005), Department of Physics, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli) Tamil Nadu, India.

³Assistant Professor, Department of Physics, Holy Cross College (Autonomous), Nagercoil-629004, Kanyakumari District (Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli) Tamil Nadu, India.

Received: 08 Aug 2023

Revised: 10 Nov 2023

Accepted: 16 Dec 2023

*Address for Correspondence

Sonia S^{3*}

Assistant Professor,

Department of Physics,

Holy Cross College (Autonomous),

Nagercoil-629004, Kanyakumari District

(Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli)

Tamil Nadu, India.

Email: sonianst10@gmail.com



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ABSTRACT

Biomass-derived activated carbon is an economically viable and environmentally friendly option for electrochemical applications due to its low cost, renewable nature, and extensive availability. The primary objective of this study is to develop a method for extracting activated carbon from rice husk through the use of a carbonization procedure. Analyses conducted with scanning electron microscopy (SEM) produced precise renderings of the structure's unique characteristics. In addition, an X-ray Diffraction (XRD) study was performed, and the results confirmed the existence of graphitic peaks, as well as copper oxide. Cyclic voltammetry (also known as CV) was utilized to carry out electrochemical analysis at a scan rate that varied from five to one hundred. Notably, the scan rate of 10 m V/s corresponded to the point where the maximum capacitance was measured, which was 167.36 F g⁻¹. The power density that was attained was 2083 W kg⁻¹, and the energy density was also 5.2 Wh kg⁻¹. The level



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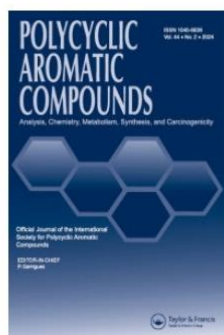


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Research Articles

Quantum Chemical Investigations on the Hydrogen-Bonded Interactions of Bioactive Molecule N²-(4-Methoxysalicylidene) Arginine Hemihydrate

C. Dabora Vincy, J. D. Deephin Tarika, M. Sethuram, **S. J. Jenepha Mary** & T. Joselin Beaula

Pages 7651-7672 | Received 02 Jun 2022, Accepted 17 Oct 2022, Published online: 03 Nov 2022

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Abstract

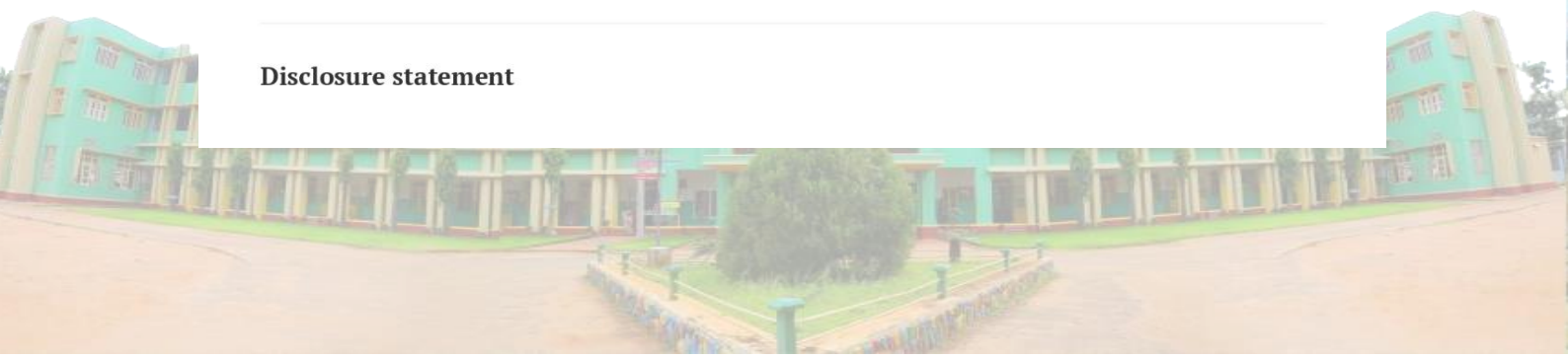
The geometry optimization, natural bond orbital analysis, and vibrational analysis of a Schiff base compound N²-(4-Methoxysalicylidene) Arginine Hemihydrate (4MSAH) were carried out using the density functional B3PW91 method with the 6–31 G (d,p) basis set. Natural Bond Orbital (NBO) analysis is carried out to examine the various intra and inter molecular interactions of molecular system. Normal coordinate analysis was carried out to elucidate the vibrational modes and the assignments were made on the potential energy distribution. From the vibrational analysis, it is endorsed that the stretching wave number of hydrogen bond donor COO⁻ and hydrogen bond acceptor NH₂⁺ is shifted due to the interaction. MO (Molecular Orbital) analysis was accomplished to propose the biological activity of the molecule and the impact of the transition of electrons from n→π* was studied using the UV transmittance spectrum. The molecular orbital contributions are studied by using DOS spectral analysis. Topological studies of 4MSAH were conducted utilizing the Electron Localization Function (ELF) and the Local orbital locator (LOL). Hirshfeld surface analysis and reduced density gradient analysis were conducted to investigate distinct covalent and non-covalent interactions. Molecular docking was employed on antifungal proteins to explore protein-ligand interactions and verify the compound's bioactivity.

Keywords: Interaction density of states reduced density gradient Hirshfeld docking

Acknowledgment

The Authors thank Dr. I. Hubert Joe, Associate Professor of Department of Physics, Kerala University for granting us permission to do computational works in their Research Lab.

Disclosure statement





Source details

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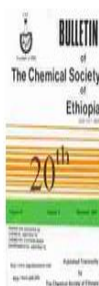


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 DOI: <https://dx.doi.org/10.4314/bcse.v37i4.9>

ISSN 1011-3924
 Printed in Ethiopia
 Online ISSN 1726-801X

SYNTHESIS AND CHARACTERIZATION OF QUERCETIN-LAYER DOUBLE HYDROXIDE (LDH) NANOHYBRID AND THEIR ENHANCED ANTIOXIDANT ACTIVITY

Y. Christabel Shaji¹ D. Deena Rose², C. Ramesh Kannan³, M. Aruna⁴ and Y. Bruceyly^{3*}

¹Department of Chemistry, Holy Cross College (Autonomous), Nagercoil-629004, Tamil Nadu, India

²Department of Artificial Intelligence, K. Ramakrishnan College of Technology, Tiruchirappalli, Tamil Nadu, India

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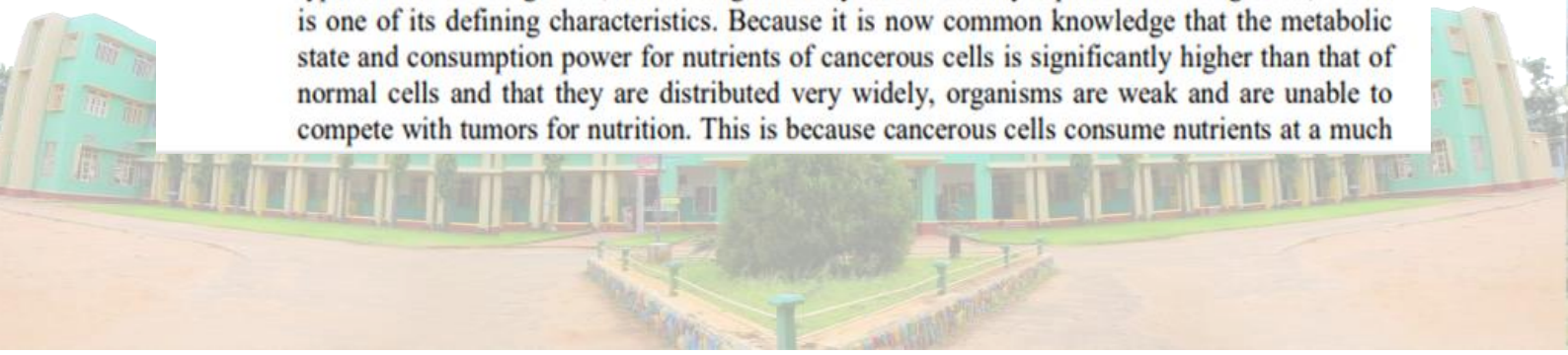
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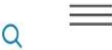
ABSTRACT. This research included the synthesis of pristine nitrate-type Zn₂Al-LDH by means of Co-precipitation, which was then followed by hydrothermal treatment. Ion exchange is used to stabilize the produced pristine LDH nano layer, which is used for the encapsulation of bioactive molecules. Quercetin, which has an antioxidant function, is used. XRD was used to investigate the newly synthesized quercetin-LDH (QC-LDH) compound. Quercetin was discovered to be entirely deprotonated as a result of XRD research, and it was also shown to be stabilized in between LDH lattices as a result of electrostatic contact. On the basis of the diphenyl picrylhydrazyl (DPPH) method, the anti-oxidant property was discussed, and it was discovered that the quercetin that was free from the LDH layer helped as an owing antioxidant to scavenge DPPH radicals in ethanol solvent at concentrations ranging from 80-100%, depending on the concentration level. The powder X-ray diffraction patterns indicate that the incorporation of quercetin into the interlayer led to an expansion of the interlayer arrangement to 0.88 and 1.46 nm, respectively. According to the findings of a variety of characterization techniques, the QC-LDH may be regarded as a good antioxidant material with potential drug delivery system.

KEY WORDS: Layer double hydroxide, Antioxidant activity, Quercetin, Biocompatibility

INTRODUCTION

Cancer has increasingly become one of the most significant obstacles to be faced in terms of the world's public health. According to the data published by the World Health Organization (WHO), cancer is responsible for the deaths of 8.97 million individuals worldwide each year. As a result of this, cancer has now surpassed coronary artery disease to become the second leading cause of death, falling just behind ischemic heart disease as the leading cause of death. Due to the fact that tumors are made up of cancer cells that are encircled by normal healthy cells within the extracellular matrix, such as adipocytes and immune cells, tumours can only be removed surgically and the microenvironment of a tumors is both complicated and distinct. In compared to typical rates of cell growth, it is distinguished by an abnormally rapid rate of cell growth, which is one of its defining characteristics. Because it is now common knowledge that the metabolic state and consumption power for nutrients of cancerous cells is significantly higher than that of normal cells and that they are distributed very widely, organisms are weak and are unable to compete with tumors for nutrition. This is because cancerous cells consume nutrients at a much





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The applications of nanocomposites are not limited to a single field but are widely spread across a wide range. The application of nanocomposites embraces automotive, solar panels, sporting goods, aerospace, structural, cryogenic vessels, structural gas and oil pipelines. The polyester resin matrix-based polymer ZnO nanocomposites will be synthesized by the solution casting method. Manufacturing of nanocomposite is recommended by adding nano ZnO and nano coconut shell filler in polyesters at various weight ratios using the hand layup process. The crystalline structure of both nanoparticles will be investigated using the X-ray diffraction method. Purity and base polymer



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Biocompatibility of ionic liquid tagged terpyridine complexes with potent biological activity

M. Antilin Princela^{a,b}, B.T. Delma^a, S. Lizy Roselet^{b,c}, M. Shirly Treasa^{a,d}, M. Jaya Brabha^{b,d},
C. Isac Sobana Raj^{b,c,d}

^a Department of Chemistry, Holy Cross College (Autonomous), Nagercoil-629004, Tamil Nadu, India

^b Department of Chemistry, Annai Velankanni College, Tholayavattam, Tamil Nadu 629157, India

^c Department of Chemistry and Research Centre, Nesamony Memorial Christian College, Marthandam, Tamil Nadu 629165, India

^d Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli 627012, Tamil Nadu, India

ARTICLE INFO

Keywords:

Terpyridine
Ionic liquids
Antimicrobial activity
Antioxidant activity
Anticancer activity

ABSTRACT

The current work deals with the study of novel and bioactive ionic liquid tagged terpyridine ligand and their complexes were synthesized using first row transition metal ions. The synthesized IL tagged complexes were characterized by UV, FT-IR, ¹H NMR, ¹³C NMR, HRMS spectroscopic studies and also the structure of the complexes was confirmed by its spectral data. Moreover, the antibacterial, antifungal, antioxidant and anticancer studies were carried out to exhibit the bioactivity of the complexes. The antimicrobial studies of newly synthesized complexes were tested against five bacterial and two fungal strains by disc diffusion method. The iron complexes of terpyridine shows outstanding activity than the reference with zone of inhibition of 22-32 mm against the evaluated microorganisms. Furthermore, the antioxidant activity of the terpyridine complexes was assessed by phosphomolybdenum and NO radical scavenging assay. The reducing power of the synthesized complexes has shown potent antioxidant activity than the standard. Especially, Cu-tpy-IL and Zn-tpy-IL have shown good radical scavenging activity exhibits an IC₅₀ value of 42.45 and 40.85 µg/mL respectively. In addition, the anticancer activity of the complexes was analyzed by SRB assay. The report suggested that the complexes of Cu-tpy-IL and Zn-tpy-IL exhibiting prominent role in anticancer activity against HeLa and HT-29 cell lines possessing a GI₅₀ value of <10 µg/mL. The obtained results revealed that the bioactive synthesized complexes could be used as a derivative in the field of drug inventions.

1. Introduction

Metal ions and its complexes were served as a key material in biological processes and it is responsible for various biological reactions in our daily life [1]. Metal complexes have a peculiar property to exist as multiple oxidation states, generating additional coordination site, increasing the reaction kinetics, altering the ligand affinity and mimicking the metalloenzymes and so on. Because of these properties, metals can easily bind with oxygen, sulphur and nitrogen atoms, which is present in the amino acids in DNA [2–4]. The recent trends in bioinorganic chemistry are to synthesize thermodynamically stable and kinetically labile, low-cost eco-friendly metal complexes [5] and to utilize these complexes for various biological targets especially for cancer treatment. Generally, the metal atom has a tendency like readily losing an electron from the outermost orbit and it existed as a cation,

hence metal containing biomolecules (Haemoglobin) carry the oxygen throughout the body. Since metal atom is electron deficient in nature, it exists in variable oxidation states based on the environment [6]. This tendency attracts electron rich biomolecules like DNA and proteins. Due to this peculiar property, metal complexes induce electron shuttling between biomolecules and metal complexes.

In addition to this, many metal ions are responsible for natural evolution and biological functions. Practically, haemoglobin is an iron containing allosteric protein which is present in blood and it carries oxygen as well as carbon dioxide [7]. Calcium and its compounds are present in bones; hence it decides the skeletal system [8]. Ceruloplasmin is the copper carrying protein made in liver, it stores and carries the mineral copper around our body [9]. Vitamin B-12 (cobalamin) is a cobalt containing vitamin, their contribution in the formation of red blood cell is a remarkable one [10]. Urease is a nickel containing

* Corresponding author.

E-mail address: isacchemistry@gmail.com (C.I.S. Raj).

<https://doi.org/10.1016/j.chphi.2023.100371>

Received 2 June 2023; Received in revised form 5 October 2023; Accepted 5 November 2023

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Synthesis, characterization and biological activity of zinc complexes of ethylenediamine and its derivatives

M. Jaya Brabha¹, M. Anitha Malbi^{2,*}

Department of Chemistry, Holy Cross College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India

ARTICLE INFO

Keywords:

Anti-diabetic
Alpha-glucosidase
Alpha-amylase
¹H NMR and CHNS

ABSTRACT

Inorganic Complexes are widely used in pharmaceutical industry. Especially chelating complexes are used as the scavengers of heavy metal ions. This present study is aimed to synthesis ethylenediamine and its derivative Zn (II) complexes, and identifies the biological efficiency of the complexes. The ¹H NMR spectra of ligands and Zn complexes are confirming the complexation. Downfield shifts of complexes further support the complexation. All the complexes are well crystalline and the average particle size is 80. The calculated percentage of an element in all the complexes is well agreed with the percentage of elements obtained from the CHNS analyzer. Applications of the complexes are studied by its Invitro Anti-diabetic activity. [Zn(pren)₂]²⁺ complex exhibits greater percentage inhibition (63.57%). The homo catenation of the ligand is response to increase the drug efficiency.

Introduction

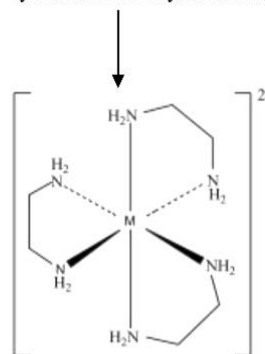
The average human body contains 3 g of zinc, which makes it the second most abundant trace element in the body after iron [1–4]. Zinc is the only metal that appears in all enzyme classes [1,4]. It is mainly distributed in the blood, kidney, liver and bone [5]. Studies have shown that Zn(II) has important antibacterial and antiviral effects [6], and high zinc ion concentrations may have some antibacterial properties [7]. Metal ions are necessary for many important operation in humans and some diseases are caused due to deficiency of metal ions [8] iron deficiency might result in pernicious anemia. Zinc deficiency causes growth retardation, copper deficiency leads to heart disease in infants. A fundamental aspect of medicinal bioinorganic chemistry is to notice and interpret at the level of molecular of the diseases, initiated by unsatisfactory in function metal-ion. Especially chelating complexes are used as the scavengers of heavy metal ions [9]. This present study is aimed to synthesis and identifies the efficiency of chelating complexes. The scheme is performed for the synthesis of ethylenediamine and its derivatives are treated with Zn (II) salt. Empirical formula of complexes are analyzed by CHNS study, complexation are determined by ¹H NMR and FTIR studies, crystallinity and grain size are identified by PXRD. Anti-Diabetic Activities of chelating metal complexes are determined by invitro alpha-glucosidase inhibition assay and invitro alpha-amylase

inhibition assay.

Synthesis of chelating metal complexes

The chelating complexes of Zn(II) were prepared from zinc sulphate hepta hydrate, with ligands, ethylenediamine (en), N-methylethylenediamine (meen) and N-propylethylenediamine (pren). 2 mM aqueous solution of metal salts was taken in a separate beaker and 6 mM solution of en, meen and pren was added drop by drop to the separate beaker. To get proper mixing continuous stirring was performed for an hour, 2 mL of ethyl alcohol was added to each beaker for complete precipitation then the solution was transferred into three separate petri dish. The solvent was removed by hot air oven at 45°C. After 3 days, white-coloured complexes were formed [10].

Synthesis of tris ethylenediamine Zn(II) sulphate



* Corresponding author.

E-mail address: anithamalbi@holycrossngl.edu.in (M.A. Malbi).

¹ Research Scholar, Reg.No: Reg.No.18123042032015

² Assistant Professor

<https://doi.org/10.1016/j.chphi.2023.100248>

Received 1 January 2023; Received in revised form 15 May 2023; Accepted 8 June 2023

Available online 8 June 2023

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Source details

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Publisher: Green Wave Publishing of Canada

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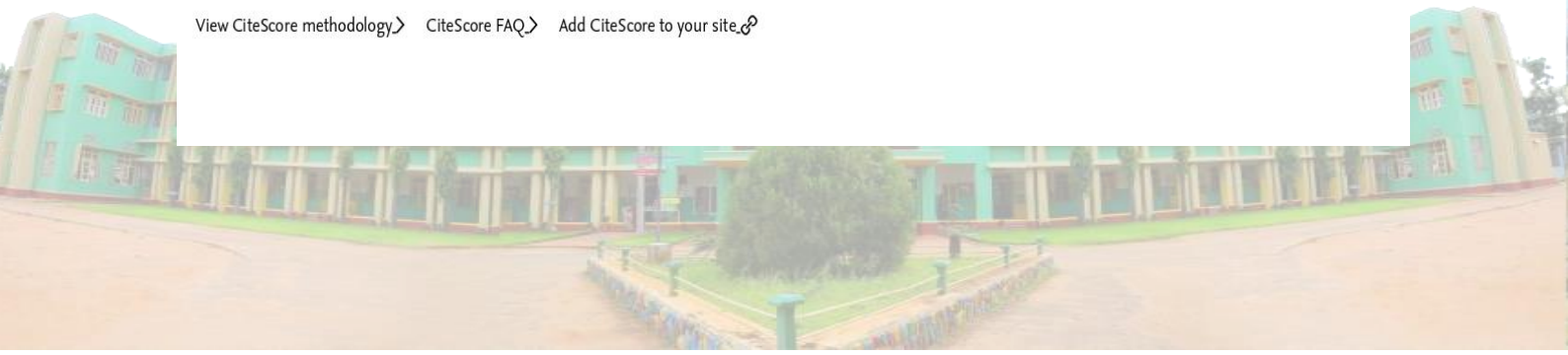
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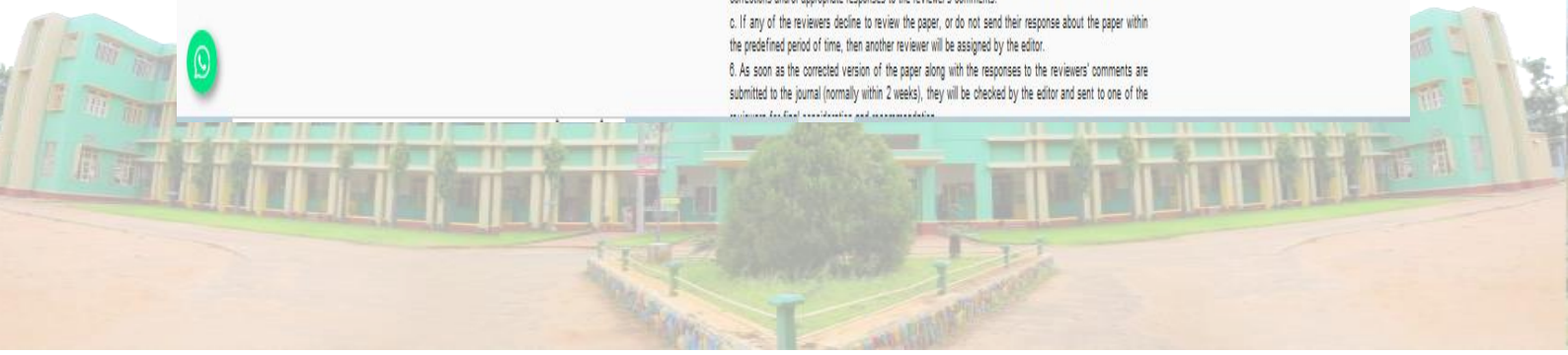


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Biological Analysis of *Cocos Nucifera* L Endocarp Extracts

¹K Lavanya , ²S Agneswari, ³S Kala Vetha kumari, ⁴K Indirani ⁵M Murugan, ⁶Abisha B

¹Department of Biochemistry, PSG College of Arts and Science (Autonomous), *affiliated to Bharathiar University, Coimbatore, Tamil Nadu, India.*

²Department of Zoology, Vivekananda College, Agasteeswaram, Kanyakumari, *affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.*

³Department of Botany, Holy Cross College (Autonomous), Nagercoil *affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.*

⁴Department of Clinical Nutrition and Dietetics, PSG College of Arts and Science (Autonomous), *affiliated to Bharathiar University, Coimbatore, Tamil Nadu, India.*

⁵Department of Biomedical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District, Tamil Nadu, India.

⁶Department of Biotechnology, Noorul Islam College of Arts and Science, Kumaracoil *affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.*
email: lavanya@psgcas.ac.in

ABSTRACT

Cocos nucifera. L commonly called as Coconut tree is used for its several beneficial health effects as antitumor, anthelmintic, antidotal, antiseptic, bactericidal activity, etc. Coconut shell or its endocarp is an agricultural waste and is available in very large quantities throughout the tropical countries of the world. Endocarp of *C.nucifera*. L was supposed to be the hardest part of the fruit but ionically richest source of phenolic and flavonoid compound which are responsible for diverse biological activities beneficial to human health and disease prevention. Therefore the present study was conducted to determine the phytochemical constituents and antioxidant activity of four different extracts of *C.nucifera*. L endocarp prepared by cold percolation (CNL-01), hot percolation (CNL-02), aqueous extraction (CNL-03) and by dry distillation (CNL-04) methods. All the investigated phytochemicals except amino acids, proteins and alkaloids were present in different extracts. Antioxidant activity of extracts using reducing power methods revealed CNL-02 as the better extract.

1. INTRODUCTION

Cocos nucifera Lim commonly known as coconut belonging to *Arecaceae* family is considered as an important fruit tree in the world providing food and used in the world playing a significant role in the economic, cultural and social life of over 80 tropical countries. Currently coconut is mainly an oil crop rich in lauric acid with a variety of others uses in addition to commercial oil production. The most important coconut

producing countries in the world are India, SriLanka, Malaysia and Indonesia (Harries, 1995). For thousands of year, coconut products have held a respected and valuable place in Indian folk medicine. It is believed to be antibleorrhagic, antibronchitis, febrifuga, antigingivitic, immunostimulant, antioxidant, antiparasitic etc. Endocarp of *Cocos nucifera* was supposed to be the hardest part of the fruit but ionically richest source of phenolic and flavonoid compound which are responsible for diverse biological



Source details

Journal of Survey in Fisheries Sciences

Scopus coverage years: from 2018 to 2023
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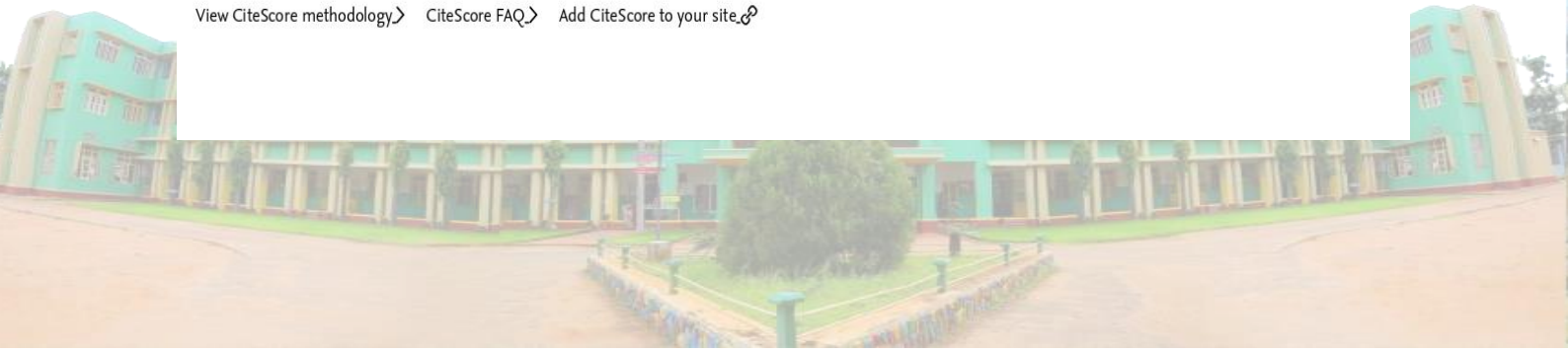
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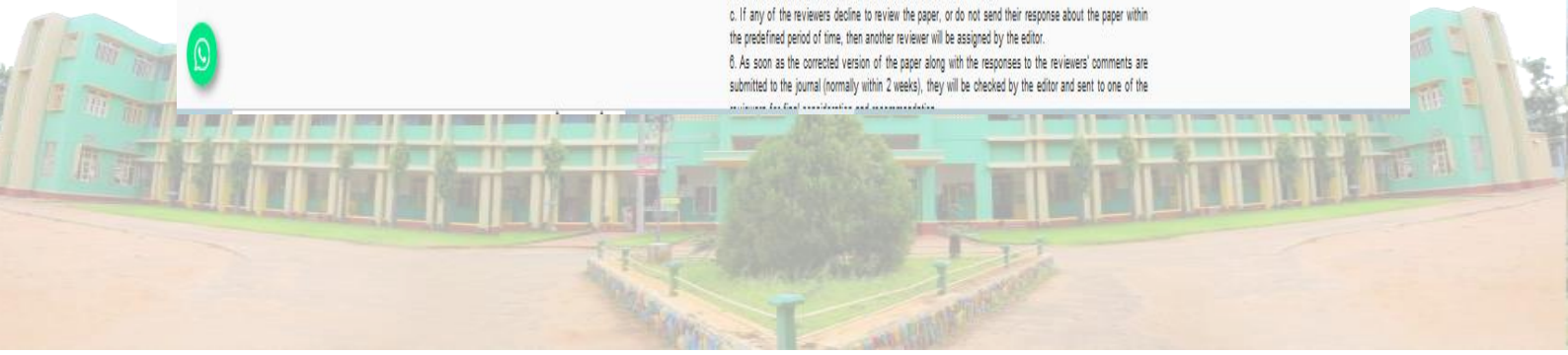
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Source: Normalized Impact per Paper (SNIP) - 0.182



A Preliminary Qualitative and Quantitative Phytochemical Screening of *Annona muricata* L. Leaf Using Various Solvent Extracts

Jerin Asha T^{1*}, Medo Merina R² and Bojaja A Rosy³

¹19223042262017, Ph.D Research Scholar, Department of Botany and Research Centre, Holy Cross College (Autonomous), Nagercoil, Tamil Nadu, India.

² Assistant Professor, Department of Botany and Research Centre, Women's Christian College, Nagercoil, Tamil Nadu, India.

³ Assistant Professor, Department of Botany and Research Centre, Holy Cross College (Autonomous), Nagercoil, Tamil Nadu, India.

*Corresponding Author E-mail ID : aknaths.thileeban@gmail.com

Affiliated to Manonmanium Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India.

ABSTRACT

The main objective of the present study was to find out the phytochemicals present in aqueous, ethanol, chloroform, ethyl acetate and acetone extracts of *Annona muricata* L. (Soursop) by both qualitative and quantitative screening methods. In qualitative analysis various phytochemicals such as alkaloids, flavonoids, tannins, phenols, terpenoids, glycosides, saponins, steroids, carbohydrates, reducing sugars and proteins were present. In quantitative analysis total amount of available phytochemical constituents were quantified. The ethanol leaf extract showed maximum number of compounds, followed by ethyl acetate, chloroform and aqueous extracts. Least number of secondary metabolites present in acetone. The highest quantity of alkaloids shown in ethanolic leaf extract. The quantity of glycosides is remarkable in both ethanol and acetone. Among all phytochemicals present, terpenoids and reducing sugars showed the least quantity in all extracts. The results obtained during the study also highlights the value in the field of pharmacology to develop new drugs.

Keywords: Extracts, leaf, phytochemical screening, qualitative, quantitative, soursop,

INTRODUCTION

Plants represents a priceless tank of new bioactive molecules with various medicinal and pharmacological applications (Singh *et al.*, 2014). Plants have been thus known to be a reservoir of secondary metabolites which are being exploited as source of bioactive substance for various pharmacological purposes. Numerous studies have been carried out to screen extracts from medicinal plants for the

presence of novel compounds and to test their biological activities (Ahmedulla and Nayar,1999). Medicinal plants which contain phytochemicals are good for human health and for the prevention of diseases (Mlozi, 2022).

The phytochemical research that has been done based on the ethno-pharmacological information forms the effective approach in the discovery of new anti-infective agents from higher plants. It plays a vital role





Source details

Latin American Journal of Pharmacy

Scopus coverage years: from 1989 to 2023

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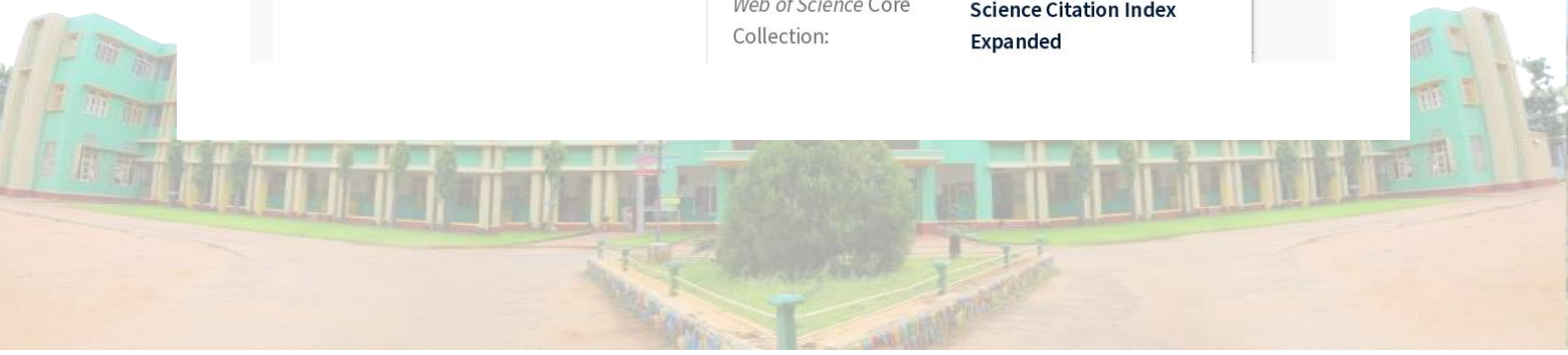
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Phytochemical and anticancerous potential of the fruit extract of annona muricata l.

Jerin Asha T*, Medo Merina R and Bojaxa A Rosy

Keywords: Analyse, Anti-cancerous, Metabolites, Pharmacological, Phytochemical.

ABSTRACT

The objective of this research was to explore the preliminary phytochemical and anticancerous properties of Annona muricata fruit extract. The fruit parts like mesocarp and epicarp were selected for the study. Chloroform solvent is used for the extraction. The qualitative and quantitative analysis of the phytochemicals was determined. The anticancerous studies were made by MTT assay method. Various concentration of the extract was used for anticancerous analysis. The MCF-7 breast cancer cell line was used for the viability test and the IC 50 value was determined. The results of the qualitative and quantitative phytochemical analysis revealed the presence of alkaloids, flavonoids, tannins, phenols, terpenoids, glycosides, saponins, steroids, carbohydrates, reducing sugars and proteins. The phytochemical compounds were more in epicarp than mesocarp. The MCF-7 breast cancer cell line also showed the best results in mesocarp than epicarp.

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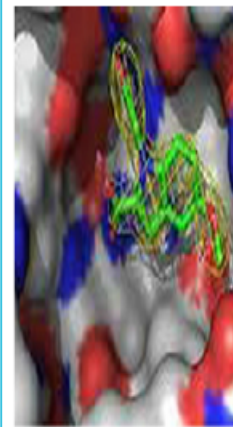
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**ETHNOMEDICINAL PLANTS USED BY THE PEOPLE OF THICKANAMCODE
VILLAGE, KANYAKUMARI DISTRICT, TAMIL NADU, INDIA**

S. JAYAKUMAR^{1*}, T.S. SHYNIN BRINTHA², C. DOMETILA³, R. MARY SUJIN⁴,

A. R. FLORENCE⁵, G. JEBIA CHINNA RANI⁵, A. AYUN VINUBA⁶

AND V. SATHIA GEETHA⁷

- 1: Department of Botany, Nesamony Memorial Christian College (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Marthandam, Tamil Nadu, India
- 2: Department of Botany, Scott Christian College (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Nagercoil, Tamil Nadu, India
- 3: Department of Botany, St. Jude's College (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Thoothoor, Tamil Nadu, India
- 4: Department of Botany, PTMTM College (Affiliated to Alagappa University, Karaikudi), Kamuthi, Tamil Nadu, India
- 5: Department of Botany, Holy Cross College (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Nagercoil, Tamil Nadu, India
- 6: Department of Botany, TDMNS College (Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Kallikulam, Tamil Nadu, India
- 7: Department of Botany, A.V.V.M. Sri Pushpam College (Autonomous), Bharathidasan University, Poondi, India

***Corresponding Author: Dr. S. Jayakumar: E Mail: solomonjeeva@gmail.com**

Received 8th April 2022; Revised 3rd May 2022; Accepted 25th July 2022; Available online 1st Feb. 2023

<https://doi.org/10.31032/IJBPAS/2023/12.2.6897>

ABSTRACT

Plants have been used since ancient times for the treatment of various ailments. The present study documents the commonly used medicinal plants used by the people of Thickenamcode village through Participatory Rural Appraisal (PRA) method and interview method. A total of 70





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Publication Details
Edited by: Editorial Board of Journal of Data Acquisition and Processing
 P.O. Box 2704, Beijing 100190, P.R. China
Sponsored by: Institute of Computing Technology, CAS & China Computer Federation
Undertaken by: Institute of Computing Technology, CAS
Published by: SCIENCE PRESS, BEIJING, CHINA
Distributed by:
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**LAND RESOURCE MANAGEMENT AND PLANNING USING REMOTE
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A. Meharajbegum

Department of Physics, Mailam Engineering College, Mailam, Tindivanam, Tamil Nadu.
Email: ameharaj18@gmail.com

Prakash Gadipelli

Department of Chemistry, Aditya College of Engineering & Technology, Surampalem,
Kakinada, Andhra Pradesh.
Email: Jamesprakash68669@gmail.com

A. Jansy Isabella Rani

Department of Biochemistry, Vellalar College for Women (Autonomous), Erode, Tamil
Nadu, E-mail: jansyisabella@gmail.com

B. Rajeshkanna

Department of Civil Engineering, R.V.S College of Engineering, Dindigul, Tamil Nadu.
Email: bvrkanna@gmail.com

J. Celin Pappa Rani

Department of Botany, Holy Cross College (Autonomous), Nagercoil, Tamil Nadu.
Email: celinpapparani@gmail.com

Abstract

The natural resources of a country are the foundation for its economic and social growth. Natural resources are vital to a country's economy because they generate wealth and jobs, supply crucial materials for manufacturing, feed and power the population, and heal and cure the sick. Overexploitation causes resource exhaustion because of population growth. The depletion of natural resources has had a domino effect, driving up prices, altering weather patterns, and eroding the economic, social, and cultural gains made possible by those resources' earlier exploitation. Nations must learn to use these resources sustainably if they want current and future generations to reap the advantages. Due to the importance of properly managing these sensitive resources in light of recent developments in information technology, natural resource managers have placed a strong emphasis on remote sensing and geographic information system (GIS) technologies. Managers now have a solid foundation upon which to build data and knowledge that will guide sustainable development decisions thanks to these technologies. Therefore, the purpose of this study is to provide an overview of the use of GIS and Remote Sensing in the context of managing land resources and promoting long-term sustainability.

Keywords: Technology for Land Use Planning, Resource Management, and Remote Sensing



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Vol 12 Issue 04 2023

ISSN NO: 2230-5807

Genetic Variability of Uropathogenic Strains of *Klebsiella Pneumoniae* in Diabetic Women

¹S Agneswari, ²Sreeya G. Nair, ³S Kala Vetha Kumari, ⁴C Christo Queensly

¹Assistant Professor, Department of Zoology, Vivekananda College, Agasteeswaram, Kanyakumari, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

²Assistant Professor, Department of Zoology, Sree Ayyappa College for Women, Chunkankadai, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

³Assistant Professor, Department of Botany, Holy Cross College, Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

⁴Assistant Professor, Department of Zoology and Research Centre, Muslim Arts College, Thiruvithancode, affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Corresponding author: s.agneswari@yahoo.com

Abstract

Objective: To study the genetic variability of uropathogenic strains of *Klebsiella pneumoniae* in diabetic patients.

Materials and methods: *Klebsiella pneumoniae* strains isolated from five diabetic patients with UTI were collected and transported to laboratory and tentatively confirmed through various morphological, biochemical and plating techniques using standard procedures. Plasmid DNA was then isolated from all strains and subjected to RFLP analysis after restriction digestion with BamH1.

Results: All the strains were found to be morphologically similar and capable of utilizing glucose. Biochemical analysis revealed that the five strains of *Klebsiella pneumoniae* were positive for catalase and indole test and negative for MP-VP coagulase, H₂S production and gas production. RFLP pattern of five *Klebsiella pneumoniae* strains revealed the existence of 4 distinct clones.

Conclusion: The above findings in the present study suggest the possibility of emergence of new strains of *Klebsiella pneumoniae*.

Key words: *Klebsiella pneumoniae*, diabetes, UTI, RFLP.

1. INTRODUCTION

Diabetes is a pathological condition in which the metabolism of blood glucose is abnormal because of insulin receptor defect. Glucose level in blood is elevated with subsequent excretion in urine. High glucose level in blood can cause glycation of various cellular proteins. Formation of advanced glycation end products has been implicated in various diseases (Basta *et al.*, 2004). Patients with diabetes have been reported to have an increased susceptibility to infections. Any increase in blood glucose level above 200mg/dl results in impaired leukocyte function, thus increasing the risk for development of urinary tract infections, ulcers, and pneumonia. Such infections may be asymptomatic but is potentially life threatening (Bagdade *et al.*, 1978)

Urinary Tract Infection (UTI) is an infection that affects part of the urinary tract. When it affects the lower urinary tract it is known as a simple *cystitis* (a bladder infection) and when it affects the upper urinary tract it is known as *pyelonephritis* (a kidney infection). Symptoms from a lower urinary tract infection include painful urination and either frequent urination or urge to urinate (or both), while those of pyelonephritis include fever and flank pain in addition to the symptoms of a lower UTI. In the elderly and the very young, symptoms may be vague or nonspecific. The main causal agent of

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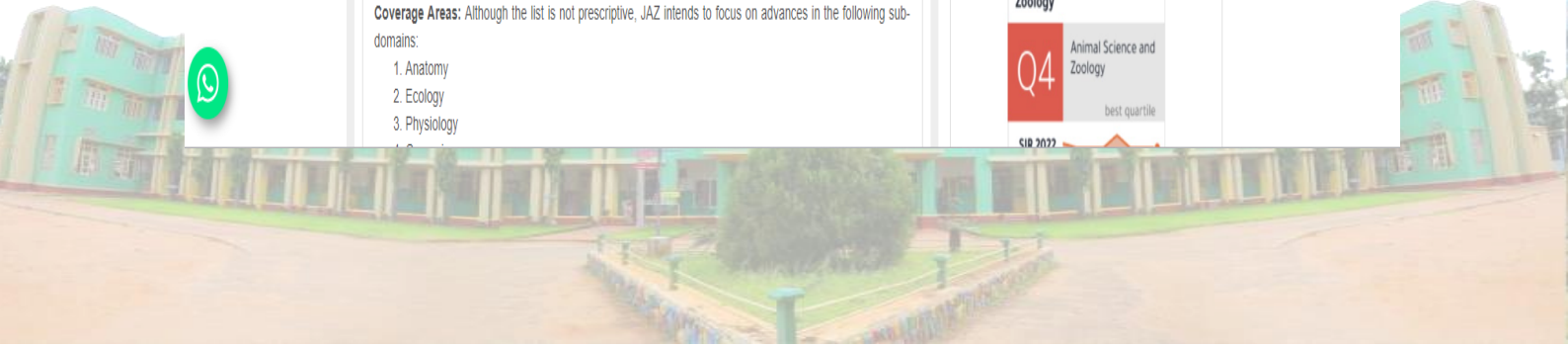
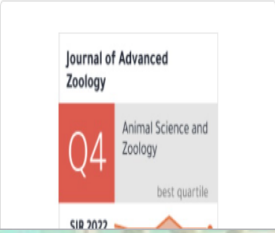
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Journal of Advanced Zoology

ISSN: 0253-7214

Volume 44 Issue 05 Year 2023 Page 1203:1210

A Report of Medicinal Plants Used by the Residents of Arumanalloor Panchayat of Kanniyakumari, Tamilnadu, India

Ani Besant S^{2*}, **Anami Augustus Arul A¹**, Blessy R², Catherine Sheeja V², Hanna Jeeja Alexander²

¹Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil - 629 004

²Research Scholar, PG and Research Department of Botany, Holy Cross College (Autonomous), Nagercoil - 629 004

Affiliated to Manonmaniam Sundaranar University, Abhisekapatti, Tirunelveli, Tamil Nadu, India

*Corresponding Author: Ani Besant S.

Email: anibesant23@gmail.com

<p>CC License CC-BY-NC-SA 4.0</p>	<p style="text-align: center;"><i>Abstract</i></p> <p>Plants are used to treat and prevent diseases in a different way. As a result, the purpose of this paper is to document the traditional knowledge of medicinal plants from the Arumanalloor panchayat of Kanniyakumari District which may be used by the local inhabitants to treat a variety of diseases. In total, 83 plant species representing 69 genera and 36 families have been documented. Herbs are commonly used by the people and trees as well. Nearly 43% of the collected medicinal plants were consumed from the leaves. Hence, this study emphasizes the potential of ethnomedicinal surveys and the need to document traditional ecological knowledge concerning the use of medicinal plants.</p>
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INTRODUCTION

Plant-based medicines have gained popularity due to their perceived effectiveness, affordability, and availability. Many individuals in developing countries rely on these traditional remedies to treat a wide range of ailments, including common illnesses, chronic conditions, and even some infectious diseases. These plant drugs are often seen as a viable alternative to expensive and inaccessible modern medicine. Many ailments have been treated and prevented using plants since ancient times [1].

Traditional medicine is indispensable for the survival of 80% of the world's population, according to the World Health Organization [2]. The use of medicinal plants is prevalent among all divisions of the population, either directly or indirectly [3]. Due to its megadiversity, India has a long history of ethnobotany and traditional knowledge regarding the therapeutic use of plants [4,5].

The drive of our study was to envoy and document the medicinal plants used to treat various ailments by the local inhabitants reside in Arumanalloor village of Thovalai Taluk positioned in the southern tip of Western Ghats region of Kanyakumari District, Tamil Nadu, India. Geologically the study area was surrounded by hillocks and reserved forest regions. This paves a strong way to rely on indigenous plant medicine.

MATERIALS AND METHODS

The Western Ghats, a UNESCO World Heritage Site, is a mountain range that runs parallel to the western coast of India. It is known for its rich biodiversity and is recognized as one of the world's eight "hottest hotspots" of



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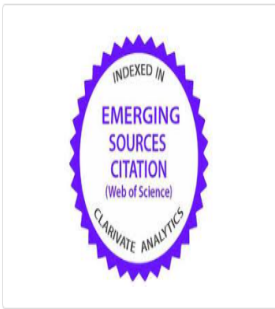
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Journal of Advanced Zoology

ISSN: 0253-7214

Volume 44 Issue 05 Year 2023 Page 1188:1193

An Analysis of the Scavenging Activities of *Rhinacanthus nasutus* (L.) Kurz Leaves in Chloroform Extract

Catherine Sheeja V^{2*}, Anami Augustus Arul A¹, Blessy R², Ani Besant S², Hanna Jeeja Alexander²

¹Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil.

²Research Scholar, PG and Research Department of Botany, Holy Cross College (Autonomous), Nagercoil. Affiliated to Manonmaniam Sundaranar University, Abhisekapatti, Tirunelveli, Tamil Nadu, India

*Corresponding Author: Catherine Sheeja V.
Email: catherinesheeja80@gmail.com


<p>CC License CC-BY-NC-SA 4.0</p>	<p style="text-align: center;">Abstract</p> <p><i>Rhinacanthus nasutus</i> (L.) Kurz was evaluated for its antioxidant activity in this study. <i>Rhinacanthus nasutus</i> is a member of the Acanthaceae family. Folk medicine uses it as a remedy for liver disorders, skin disorders, and other pharmacological effects. It was sought to determine the antioxidant activity of <i>Rhinacanthus nasutus</i> (L.) Kurz. leaf extract using DPPH assay, H₂O₂, NO and SOD scavenging activity methods. As compared to DPPH, Hydrogen peroxide, Nitric oxide and Sodium oxide, <i>Rhinacanthus nasutus</i> leaf extract exhibited better antioxidant activity against Nitric oxide.</p>
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INTRODUCTION

As the "Emporium of medicinal plants", India is well known for its medicinal plants. With approximately 12600 species, it is one of the 12 mega biodiversity centers with two hot spots of biodiversity in the Western Ghats and the northeastern region [1]. Traditional medicine provides primary health care to about 80% of the population in developing countries [2]. Many bioactive compounds can be produced by plants. The traditional healthcare systems of traditional societies rely heavily on medicinal plants [3]

This species of *Rhinacanthus nasutus* (L.) Kurz. belongs to the Acanthaceae family. There are several common names for this plant, such as Snake Jasmine, Nagamalli, and Puzhukkolli [4]. An antioxidant is a physiologic substance that acts against excessive oxidative stress and can be found in both endogenous and exogenous sources [5]. Food additives, preservatives, and supplements often contain antioxidants such as BHT, BHA, and plant extracts [6]. It has shown potential effects in treating diseases such as cancer, liver disorders, skin diseases, peptic ulcers, helminthiasis, scurvy, inflammation and obesity in some studies [7].

The aim of this study is to investigate the antioxidant properties of *Rhinacanthus nasutus*. In traditional medicine, different parts of *R. nasutus* have been used to treat conditions such as eczema, pulmonary tuberculosis, herpes, hepatitis, diabetes and hypertension [8]. Antioxidant properties have been reported for *R.nasutus* extracts in foods, cosmetics, and pharmaceuticals. According to [9] extracts of *R. nasutus* in cosmetics may slow aging and hair loss.



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ISSN	2321-340X
E-ISSN	NA
Discipline	Science
Subject	Agricultural and Biological Sciences (all)
Focus Subject	Agricultural and Biological Sciences (miscellaneous)
UGC-CARE coverage years	from June-2019 to Present

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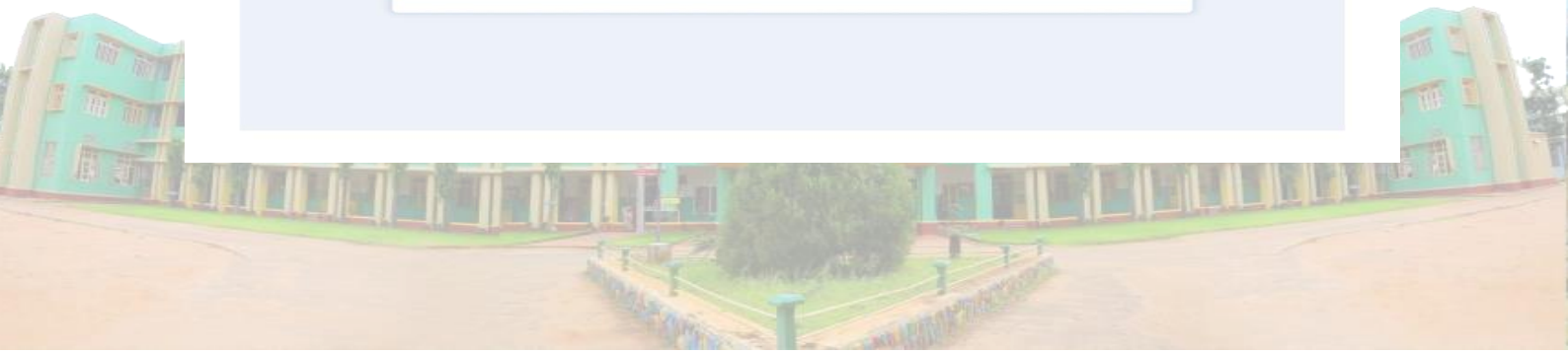
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Macrobenthic polychaetes in Manakkudy Backwater, South West Coast of India

Balasubramanian, S.¹, Citarasu, T.^{1*}, Michael Babu, M.², Lazarus, S.³, Renu, A.³ and Mary Mettilda Bai, S.⁴

¹Aquatic Animal Health Laboratory, Centre for Marine Science and Technology, Manonmaniam Sundaranar University, Rajakamangalam - 629 502, Tamil Nadu, India.

²Institute for Environmental Research and Social Education, 150, Nesamey Nagar, Nagercoil - 629001, Tamil Nadu, India.

³SR Center for Scientific Research and Social Resources, 34th, 4th Avenue street, Bencaramapuram, Nagercoil-629001, TamilNadu, India.

⁴Department of Zoology, Holy Cross College (Autonomous), Nagercoil-629004, TamilNadu, India(Affiliated to Manonmaniam Sundaranar University, Tirunelveli).

*E-mail: citarasu@gmail.com

ABSTRACT

Polychaetes are wide diverse group of organisms, contributing significantly to marine biodiversity, supporting a wide range of ecological niches and roles within different habitats. They are playing a vital role in nutrient cycling within marine ecosystems. They are often involved in the breakdown of organic matter, helping to decompose dead plants and animals. This process releases essential nutrients back into the environment, supporting the overall health of the ecosystem. The current study documented 14 species were collected from the Manakkudybackwater and mangrove ecosystem. Its including 6 species newly recorded from the west coast of India and Two species newly documented from south west coast of India. *Nephtys dutamieri* Quatrefages, 1866 is recorded after 150 years; *Spio bengalensis* Willey, 1898 rediscovered more than 110 years ago and *Gonolopis agrestis* (Fauvel, 1898) recorded morethan 90 years back. The current study important for polychaete fauna of India and exploration of future polychaete research.

ARTICLE HISTORY

Received on: 29-03-2023

Revised on: 22-11-2023

Accepted on: 20-12-2023

KEYWORDS

Barmouth, Manakkudy Estuary, Mangroves, Polychaetes, Redox

1. Introduction

Macro benthic polychaetes are essential to the food web; they prey onvarious predators, including fish, crustaceans, and other invertebrates. Their abundance influences the dynamics of higher trophic levels and contributes to energy transfer through the ecosystem (Ricci et al., 2019).Changes in the abundance and diversity of macrobenthic polychaetes can indicate shifts in environmental conditions. Their presence or absence can reflect changes in sediment quality, pollution levels, and overall ecosystem health. Monitoring polychaete populations can provide valuable insights into ecosystem changes and assist in assessing environmental impacts (Herman et al., 1998).Macrobenthic polychaetes are pivotal components of marine ecosystems due to their roles in bioturbation, nutrient cycling, habitat structuring, and serving as indicators of environmental health. Their activities contribute to marine ecosystems overall functioning and resilience, underscoring their significance in maintaining ecological balance (Lalli and Parsons, 1996; Gage, 2000;Joye and Anderson, 2007).

Annelida are found in nearly every marine habitat, from intertidal algal mats to the deepest sediments (Rouse et al., 2022).The phylum Annelida exhibits high morphological diversity, describing over 21,000 species and a lot of ecological diversity (Glasby, 2008; Rouse et al., 2022). Climate change can affect the physical characteristics of marine habitats, such as changes in sediment composition or alterations in currents and wave patterns. Since polychaetes are closely tied to sediment habitats, such changes can impact their survival and reproductive success(Nunes et al., 2021). Altered ocean conditions might lead to changes in primary productivity and the dispersal of phytoplankton

and other primary producers, which can, in turn, affect the availability of prey for polychaetes (Mitra et al., 2014; Bindoff et al., 2019).

Polychaetes are one of the main components in the estuarine and marine environment and play an important role in plankton, finfish, and shellfish populations. They are the main food for bottom fishes (Parulekar et al., 1980) and are preferred as food by snails, crustaceans, fishes and birds and thus form an essential component of the complex food chain both in their adult as well as larval stages (Willey 1905). In India,727 species belonging to 334 genera and 72 families were recorded (Sivadasand Carvalho 2020). A total of 152 species have beendescribed from various parts of the Indian coasts, and 88 species are endemic to the regionof Indian coastal waters (Sivadasand Carvalho 2020).

Manakkudy is a pristine, eco-sensitive zone where the river Pazhayar joins the sea, forming a big estuarine ecosystem with a mangrove forest and bird sanctuary. Near the estuary, there is a salt pan, sand dune, turtle nesting ground and two thickly populated coastal villages, Melamanakkudy and Keezhamanakkudy. Because of this unique nature of the ecosystem, the Manakkudy site was selected for the study of polychaete taxonomy. Further, a detailed systematic work on the polychaete fauna of the Manakkudy mangrove is lacking, and hence an attempt was made here. In this study, species composition and taxonomic description of polychaete fauna of the Manakkudy estuary Barmouth and mangrove were examined.This is the first study of the soft bottom intertidal polychaete assemblages in the Manakkudy Backwater.



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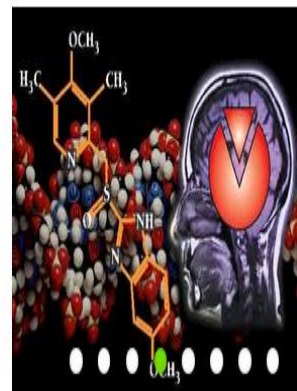
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 Published by: Saran Publications, Gorakhpur, India



ISSN: 2454-3055

***In Vitro* Antimicrobial Activity of Flower Extracts of *Plumbago indica* L. against Pathogenic Bacteria and Fungi**

Anitha C.*, Basil Rose M.R., **Arokya Glory P.T.**, **Prakash Shoba S** and **Josephine Priyatharshini C.**

PG and Research Department of Zoology, Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli, 627 012, India

*Corresponding Author

Received: 4th April, 2023; Accepted: 14th May, 2023; Published online: 3rd June, 2023

<https://doi.org/10.33745/ijzi.2023.v09i01.105>

Abstract: Medicinal plants are traditionally used for the treatment of human diseases. *Plumbago indica* is popularly known as “chittiramulam” in Tamil and belongs to the family Plumbaginaceae. Its root contains plumbagin, sucrose, fructose and protease which possess antiseptic and antipyretic properties. The present study was undertaken to investigate *Plumbago indica* flower for potential activity against pathogenic bacteria and fungi. *Plumbago indica* flower extracts were prepared in ten different solvents like ethanol, methanol, butanol, chloroform, ethyl acetate, acetone, hexane, petroleum ether, aqueous and saline. The activity of flower extracts was evaluated against six bacterial pathogens, *Bacillus subtilis*, *Enterococcus faecalis*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli* and *Proteus vulgaris* and three fungi, *Aspergillus niger*, *A. flavus* and *Rhizopus stolonifer* using standard disc diffusion method. The results of the flower extracts displayed possible activity against bacterial and fungal pathogens. The highest mean diameter of zone of inhibition was observed against bacterial pathogen *Pseudomonas aeruginosa* and highest mean diameter of zone of inhibition was observed against the fungal pathogen *A. flavus* in the ethanol extract. Together, the results of this study demonstrate, for the first time, the antimicrobiological effects of the flower of *Plumbago indica* which seems to possess therapeutic molecules capable of inhibiting, the growth of all the pathogenic bacteria and fungi.

Keywords: Antimicrobial activity, Chittiramulam, *Plumbago indica*, Microbes, *Bacillus subtilis*, *Enterococcus faecalis*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli*, *Proteus vulgaris*, *Aspergillus niger*

Citation: Anitha C., Basil Rose M.R., Arokya Glory P.T., Prakash Shoba S. and Josephine Priyatharshini C.: *In vitro* antimicrobial activity of flower extracts of *Plumbago indica* L. against pathogenic bacteria and fungi. Intern. J. Zool. Invest. 9(1): 954-960, 2023.

<https://doi.org/10.33745/ijzi.2023.v09i01.105>




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Introduction

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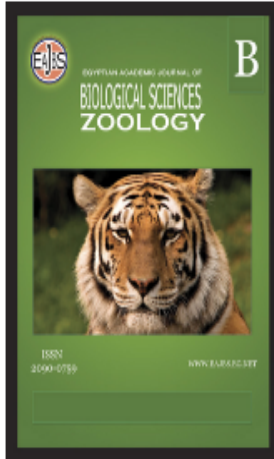
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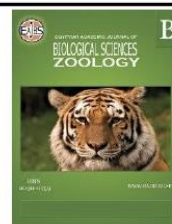
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Analysis of Attitude of Public Towards Prenatal Screening for Diagnosis of Genetic Disorders

Prakash Shoba¹ S.* Arokya Glory¹ P. T. Princy Anusha² V. Varshaa² T. B. Venci
Candida¹ X. Punitha A.¹ and Anitha¹. C

¹Department of Zoology, Holy Cross College, Nagercoil (Tamil Nadu), India.

² Holy Cross College, Nagercoil (Tamil Nadu), India.

E-mail*: prakash.shoba06@gmail.com,

ARTICLE INFO

Article History

Received:26/5/2023

Accepted:27/6/2023

Available:29/6/2023

Keywords:

Prenatal diagnosis,
Genetic disorders,
Pregnancy, non-
communicable
diseases.


With a very large population and high birth rate, and consanguineous marriage favored in many communities, there is a high prevalence of genetic disorders in India. The cross-sectional study was carried out in people of the Kanyakumari District, Tamil Nadu community males and, females both married and single with a wide range of ages and educational backgrounds as well as covering a diverse number of generic diseases. The cross-sectional survey was conducted among people of the Kanyakumari District, Tamil Nadu (n = 201) to determine their practices toward reproductive decision-making. The main objective of the study is to analyze the participant's knowledge of the practices towards prenatal diagnosis (PND) and termination of pregnancy. Genetic testing has the maximum possible potential to reduce the prevalence of genetic disorders by early detection. Studies found that general knowledge of genetic diseases in Tamil Nadu lacks an understanding of the fundamental characteristics of genetic diseases. Primarily due to the occurrence of consanguineous marriages 20%. The practice towards PND (61%) was more favorable than TOP (39%). PND was found to be a good opportunity for early diagnosis and gives parents choice. In Kanyakumari District, most people will have an awareness of genetic disorders, Prenatal diagnosis, and Termination of pregnancy. Mercy (22.60%), religious belief (12.8%), and sin (12.2%) is the main influence on the participant's practices concerning Prenatal diagnosis and Termination of pregnancy. The fetus was diagnosed with a genetic disorder before 120 days of pregnancy, they have undergone abortion favored by 61.2%, and unfavored by 48% of the people. 62% of members responded to the diagnosis of a fetus with genetic diseases before delivery, and 38% were not accepted in prenatal diagnosis. 50.8% of members not knowing the causes of a family history of genetic diseases. But 49.2% know the causes of a family history of genetic diseases. The reason for rejecting the above question was religious belief (12.8%), Ethics (10.4%), culture (9.8%) Mercy (22.6%), sin (12.2%), Others reason (32.3%). For accepting abortion before 120 days of pregnancy (50.2%) members for getting a healthy child (68.9%), to avoid the affected child (31.1%). The current challenge of the research is a comprehensive effort to revisit consanguineous marriages and their effects with more recent using statistical methods to assess the prevalence and effect of consanguineous marriages on pregnancy.

Citation: *Egypt. Acad. J. Biol. Sci. (B. Zoology) Vol. 15(1) pp:287-299 (2023)*

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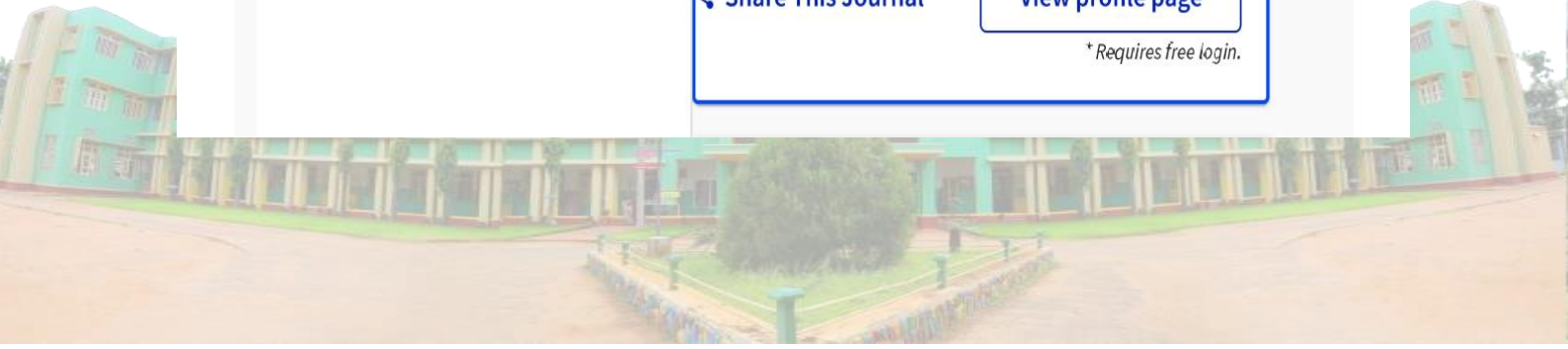
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Screening of Secondary Metabolites by FT-IR Spectroscopy

Venci Candida X^{1*}, Fresina L², Rashmi VS², Jayashree V², Mary Ajisha S², Antony Jenisha J² and Shenkani K³

¹Assistant Professor, Department of Zoology, Holy Cross College, Nagercoil, 629004. Kanyakumari District, Tamil Nadu, India.

²Student, Department of Zoology, Holy Cross College, Nagercoil, 629004. Kanyakumari District, Tamil Nadu, India.

³Assistant Professor, Department of Zoology, JKK Nattraja college of Arts and Science, Komarapalayam, 638183. Namakkal District, Tamil Nadu, India.

Received: 15 Feb 2023

Revised: 25 Apr 2023

Accepted: 30 May 2023

*Address for Correspondence

Venci Candida X

Assistant Professor,

Department of Zoology,

Holy Cross College, Nagercoil, 629004.

Kanyakumari District, Tamil Nadu, India.

E.Mail: venciaugustine@gmail.com



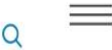
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ABSTRACT

The secondary metabolites present in various vegetable products showed medicinal properties. Four common vegetable products which we often add in our diet were taken as samples for our study. The four samples Amla (*Emblica officinalis*), Drumstick leaves (*Moringa oliefera*), beetroot (*Beta vulgaris*) and turmeric (*Curcuma longa*) were selected for our study. The samples Amla and drumstick leaves were collected from local area and beetroot and turmeric were collected from the local market. The samples were cut into thin slices and shade dried for three weeks. When it is completely dried, it was ground in the mixer jar to a smooth powder. The smooth powder of the four samples were extracted with ethanol and tested for secondary metabolites by FT-IR analysis. The obtained peaks of each sample were identified using the standard IR values. From the results obtained, we could conclude that all the four samples Amla (*Emblica officinalis*), Drumstick leaves (*Moringa oliefera*), beetroot (*Beta vulgaris*) and turmeric (*Curcuma longa*) have sufficient diversity of secondary metabolites which have high medicinal properties.

Keywords : FT-IR, Phytochemicals, IR chart, Amla (*Emblica officinalis*), Drumstick leaves (*Moringa oliefera*), beetroot (*Beta vulgaris*), turmeric (*Curcuma longa*)





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Publisher: Elsevier

ISSN: 1050-4648 E-ISSN: 1095-9947

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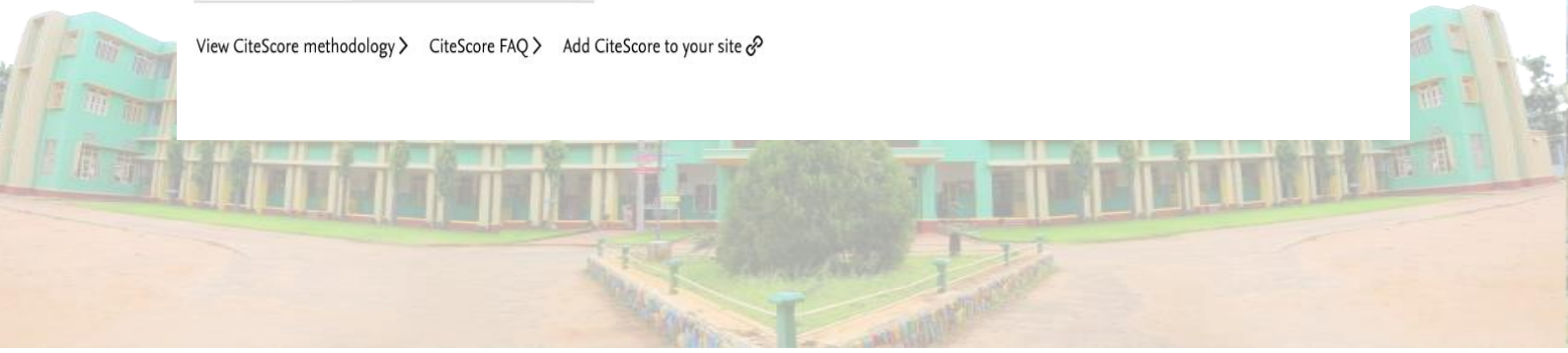
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Antimicrobial, anti-inflammatory and anti-arthritic activity of hemolymph lectin (NagLec) isolated from the freshwater crab, *Oziotelphusa naga*

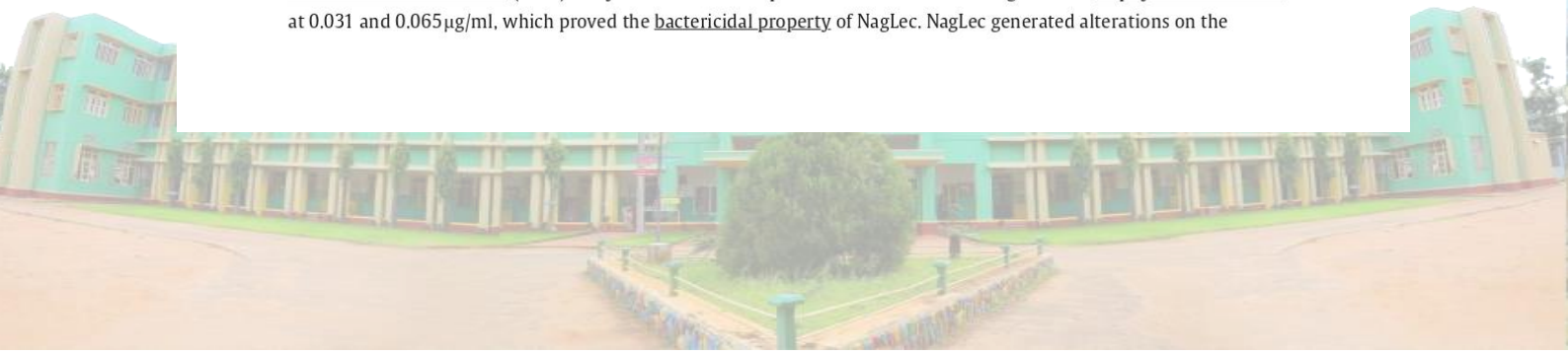
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Highlights

- A sialic acid specific lectin was purified from the hemolymph of freshwater crab, *Oziotelphusa naga*.
- The purified lectin, NagLec exhibited antimicrobial activity against *Staphylococcus aureus*, *Proteus mirabilis*, and *Candida albicans*.
- NagLec demonstrated bactericidal activity against *Staphylococcus aureus*, causing alterations in bacterial cells and protein leakage.
- NagLec inhibited COX and LOX enzymes and protein denaturation suggesting anti-inflammatory and anti-arthritic properties.

Abstract

Lectins are non-immune glycoproteins or proteins having a unique capacity to interact with carbohydrate ligands found on the surface of their host cells. In the present investigation, the lectin was purified from the hemolymph of freshwater crab, *Oziotelphusa naga* and its antimicrobial, anti-inflammatory and anti-arthritic activity was analysed. The preliminary characterization of the hemagglutinin was carried out to identify the erythrocyte and sugar specificity, optimum pH and temperature and cation dependency. The agglutinin was found to be highly specific to rabbit erythrocyte and inhibited by fetuin and α -lactose. Maximum hemagglutination activity was noted at pH 7.5–8 and temperature 20–40°C. An O-acetyl sialic acid specific 75kDa hemolymph lectin, designated as NagLec was isolated from the freshwater crab, *Oziotelphusa naga* by affinity chromatography on fetuin coupled Sepharose 4B, with a purification fold of 185. The bacteria *Staphylococcus aureus*, *Proteus mirabilis* and fungus *Candida albicans* had the greatest zone of inhibition when treated with NagLec. The results of the Minimum inhibitory concentration (MIC) and Minimum bactericidal concentration (MBC) assays showed that the purified lectin inhibited the growth of *Staphylococcus aureus* at 0.031 and 0.065 $\mu\text{g/ml}$, which proved the bactericidal property of NagLec. NagLec generated alterations on the



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Assessment of Arthropod Biodiversity in Mulberry Plants During the Summer Season

Venci Candida, X. *, Arokya Glory, P.T., Prakash Shoba, S., Ashmi Jose, G.S.,
 Resebha, R., Arokiya Sheril, B. and Sahaya Jasmine Nilani, S.

Department of Zoology, Holy Cross College, Nagercoil, Tamilnadu, India.

*E-mail: venciaugustine@gmail.com

ARTICLE INFO

Article History

Received:2/10/2023

Accepted:12/ 11/2023

Available:16/11 /2023

Keywords:

Silkworm,
 Insecta,
 Arachnida,
 Hemiptera,
 Araneae.

ABSTRACT

The silkworm industry plays a crucial role in providing employment opportunities, particularly in regions like Karnataka, Andhra Pradesh, Assam, West Bengal, Jharkhand, and Tamil Nadu. This industry heavily relies on mulberry plants (*Morus alba* L.) as the primary food source for silkworms (*Bombyx mori*). The quality of mulberry leaves directly influences cocoon quality and colour, making Moriculture pivotal in sericulture. Mulberry plants face various challenges, including diseases and pest infestations, affecting leaf growth and silk quality. This study, conducted at Holy Cross College, Tamil Nadu, aims to identify and analyze arthropods damaging mulberry leaves. Arthropods from two classes, Insecta and Arachnida, were identified and classified into orders, families, and genera. Hemiptera emerged as the most diverse order among Insects. Notably, sap-sucking insects like mealy bugs, hoppers, and jassids were observed, consistent with previous research. The Shannon Weiner index, Species richness and Species evenness were found to be more in the mulberry garden as per this study. The study's findings emphasized the need for integrated pest management strategies to enhance mulberry leaf production for the sericulture industry's sustainability.

INTRODUCTION

The sericulture industry, which revolves around the production of silk, plays a significant role in providing employment opportunities in various states of India, such as Karnataka, Andhra Pradesh, Assam, West Bengal, Jharkhand, and Tamil Nadu. This agro-based industry relies heavily on the cultivation of mulberry plants (*Morus alba* L.), as the leaves of the mulberry plant serve as the primary food source for silkworms (*Bombyx mori*). The quality and colour of the silk cocoon are influenced by the quality of mulberry leaves, making mulberry cultivation, also known as Moriculture, a critical aspect of the sericulture industry. Maintaining healthy mulberry plants through regular activities like watering, fertilizing, pruning, and protection from pests and predators is vital (Sakthivel *et al.*, 2019). Silk, often referred to as the "queen of textile fibres," is highly valued for its warmth, softness, and strength. While silk products are often associated with luxury, it's worth noting that the silk industry is also an essential source of employment for many people, including those from economically disadvantaged backgrounds. India, as the second-largest silk producer globally, boasts a unique position as the only country

Citation: Egypt. Acad. J. Biol. Sci. (A. Entomology) Vol. 16(4) pp.39-51 (2023)

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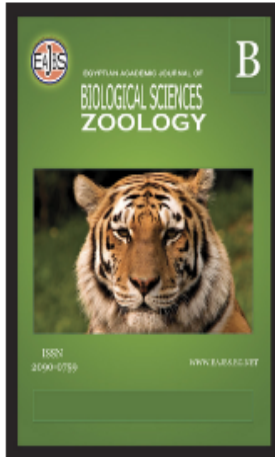




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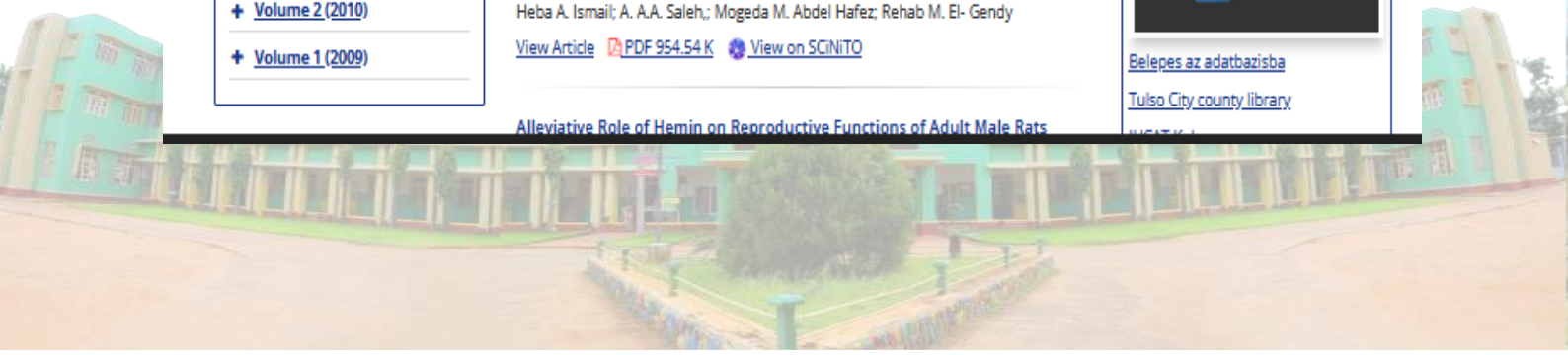
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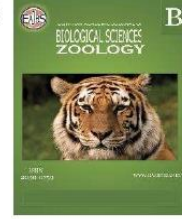
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Egyptian Academic Journal of Biological Sciences

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Preliminary Analysis of Gross Alpha and Beta Radiation in Coastal Areas

Venci Candida, X.¹, Sherin Sheeba Shalini, P.¹, Shenkani, K.² and Jenifer, V.¹

1-Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.

2- Department of Zoology, JKK Nataraja College of Arts & Science, Komarapalayam, Namakkal, Affiliated to Periyar University, Salem, Tamil Nadu, India.

E-mail*: venciaugustine@gmail.com

ARTICLE INFO

Article History

Received:21/1/2023

Accepted:5/3/2023

Available:10/3/2023

Keywords:

Alpha activity,
Beta activity,
radiation, Dual
channel alpha beta
counter.

ABSTRACT

Radioactivity is a form of natural radiation, and it is measured in becquerels (Bq) using the SI system. Both human activities and natural processes can produce radioactivity. For this study, three regions on the South Tamilnadu coastline in India, namely Manavalakurichi, Colachel, and Kudankulam, were chosen. A dual-channel alpha-beta counter was used to measure gross alpha and beta activity based on the scintillation principle. The radioactive nuclide activity concentrations in soil and water were measured, and the levels were considered acceptable. The alpha and beta radiation levels in soil and water samples did not significantly differ. The study's results suggest that the risk of radiation danger in the study area is not significantly increased because the values obtained are within the generally accepted limits. The ANOVA experiments also revealed that there was no significant difference in the gross alpha and beta activity of soil and water samples. Moreover, the alpha and beta activity in drinking water was lower in all three areas than what is recommended by the WHO. Therefore, it can be concluded that the drinking water in these three regions is safe for consumption.

INTRODUCTION

Radionuclides and radioisotopes such as uranium, thorium, radium, and potassium exist in small amounts in the Earth's crust. The levels of natural uranium (U) and thorium (Th) in igneous rocks range from 0.1 to 5 mg/kg and 1 to 20 mg/kg, respectively, depending on the rock type. Felsic rocks, such as granite, usually contain more U and Th than mafic rocks, such as basalt (Patak, B 2012). The higher amounts of these radionuclides in the soil can act as a source of radionuclide transmission down the food chain, depending on their chemical composition and how plants and animals absorb radionuclides (Jabbar *et al.*, 2010). Radioactivity in water is mainly caused by the presence of radioactive materials in the Earth's crust. Therefore, it is crucial to measure the radiation content in drinking water for human health and environmental contamination purposes (Jibiri, 2007). Soil radioactivity is typically important when creating baseline data for

Citation: Egypt. Acad. J. Biolog. Sci. (B. Zoology) Vol. 15(1) pp:129-138(2023)

DOI: 10.21608/EAJBSZ.2023.291994



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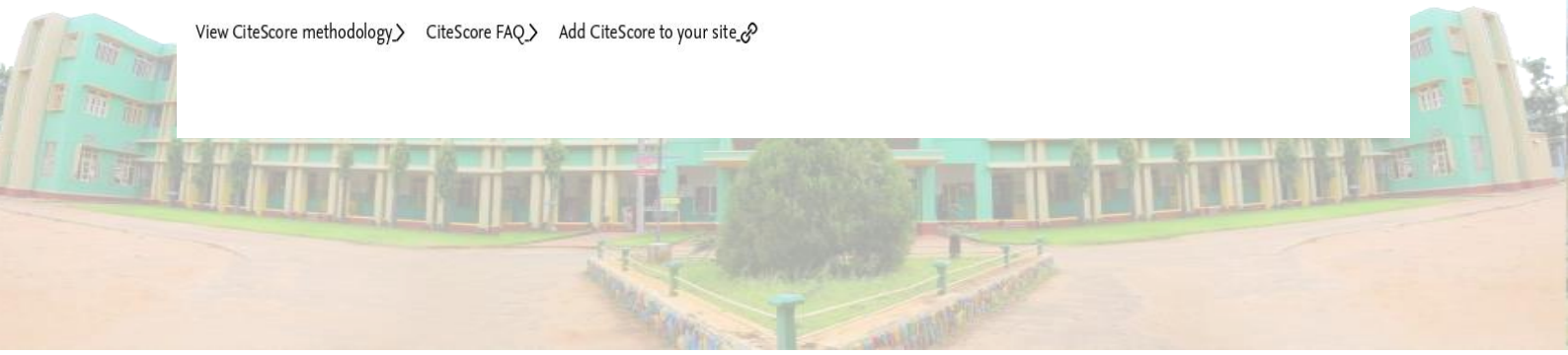
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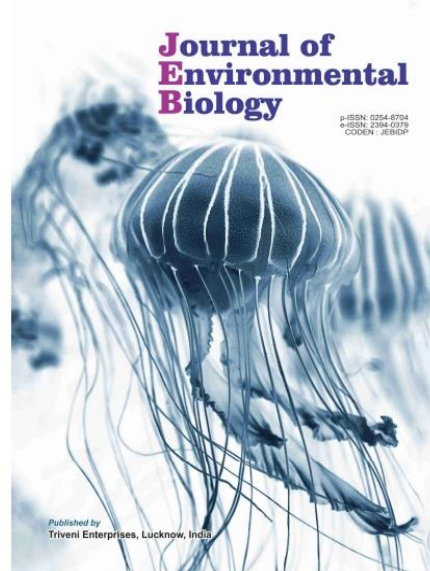
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Toxicologists, and the organizer of the conference **Dr. R. C. Dalela**, was entrusted the responsibility to take the necessary steps. After several meetings, *Journal of Environmental Biology* was launched on 7th October **1980** with **Dr. Dalela** as **Editor-in-chief**, and was registered with Government of India (GOI).

In 1996, the editorial office of the Journal shifted to Lucknow and the registration was revised by GOI, accordingly. Website (www.jeb.co.in) of journal was launched in 2006 with Open Access facility free-of-charge.



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Morphological and molecular identification of the freshwater crab, *Barytelphusa cunicularis* from Kanniyakumari, India

T.G. Teeni Janet Raj¹, A. Shyla Suganthi^{2*}, T.G. Tyni Joice Raj¹ and G. Anilkumar³¹Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli -627 012, India²Department of Zoology, Holy Cross College (Autonomous), Nagercoil-629 004, India³School of Biosciences and Technology, Vellore Institute of Technology, Vellore-632 014, India*Corresponding Author Email : shylasuganthi@holycrossngl.edu.in*ORCID: <https://orcid.org/0000-0001-5174-2897>

Received: 23.08.2022

Revised: 10.05.2023

Accepted: 05.09.2023

Abstract

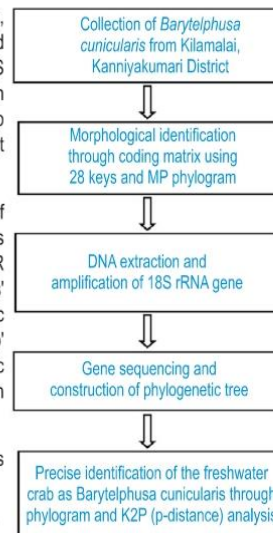
Aim: The present study aims to assess the taxonomical identification of commercially important freshwater crab, *Barytelphusa cunicularis* from Kumba River, Kanniyakumari using morphological and molecular tools.

Methodology: Samples of *B. cunicularis* were collected from Kumba River flowing in Kilamalai, Kanniyakumari district. The species identification was carried out through morphological keys constructed out of a coding matrix and phylogenetic tree (Maximum Parsimony) using Mesquite and PAUP4 software. 18S rRNA sequence was subjected to BLAST analysis, and the phylogenetic tree was constructed through Maximum Likelihood method using MEGA 11 software. Pairwise genetic distance of the species (p-distance, $p = nd/n$) was also assessed by comparing the K2P values involving phylogenetically close and distant relatives.

Results: Coding matrix prepared using the morphological keys, raised out of 28 distinctive characteristics of *B. cunicularis* and comparison with its phylogenetic relatives, have brought in valuable information on status of the species. These findings were further established by Maximum Likelihood Analysis, using the PCR amplicons of 18S rRNA. The phylogram prepared out of the sequence clearly reveals the candidate species' phylogenetic proximity to other members of the genus *Barytelphusa*. Further, the species' monophyletic status (with a BS value of 81%) suggests its early divergence from its congeners. The K2P pairwise genetic 'p' distance analysis ($p = nd/n$) of the 18S rRNA has helped us not only to further ascertain the extent of its genetic identity with its congeners, but as well has clearly provided us with the valuable cues per precise identification of the species.

Interpretation: Along with the morphological parameters, the present study, using molecular tools, provides valuable information for precise identification of the commercially important freshwater crab.

Key words: *Barytelphusa cunicularis*, Crustacea, Freshwater crab, Gecarcinucidae, Phylogram, Taxonomy



How to cite : Teeni Janet Raj, T.G., A. Shyla Suganthi, T.G. Tyni Joice Raj and G. Anilkumar: Morphological and molecular identification of the freshwater crab, *Barytelphusa cunicularis* from Kanniyakumari, India. *J. Environ. Biol.*, **44**, 804-810 (2023).

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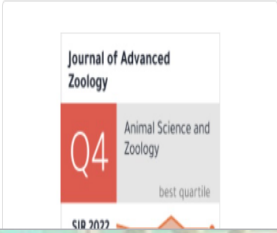
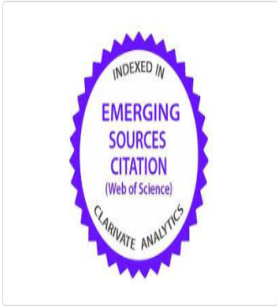
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1. Anatomy
2. Ecology
3. Physiology





Heavy Metal Resistant Bacteria Isolation from Koodankulam Coast: *Bacillus* sp. and *Pseudomonas* sp. as Potential Agents for Bioremediation

Punitha, A*. Prakash Shoba S., Adlin D, Ajola Resi S. R and Venci Candida X

Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.

*Corresponding author's E-mail: punivelmurugan@gmail.com


Article History	Abstract
<p>Received: 06 June 2023 Revised: 05 Sept 2023 Accepted: 22 Dec 2023</p> <p>CC License CC-BY-NC-SA 4.0</p>	<p><i>The present study investigates the heavy metal resistant bacteria were isolated from offshore sea soil of Koodankulam coast, Gulf of Mannar, South East coast of India., Tamil Nadu, India. Bacterial communities in the soil were screened by morphological, biochemical and plasmid analysis and were identified as Bacillus sp., and Pseudomonas sp. High concentrations of toxic metals negatively affect bacterial growth, and therefore, the minimum inhibitory concentration of isolated bacteria was determined against Pb, Hg and Zn by agar dilution technique. The heavy metal polluted soil contains some microorganisms that exhibit tolerance to the metals which in turn helps in the reduction of heavy metals toxicity accumulated in the soil. Isolation, screening and characterization are involved to determine the level of resistance of the bacteria. Here, out of several isolates the Bacillus sp. and Pseudomonas sp. has showed increased resistance to Pb, Hg and Zn. Consequently, this microbial isolate can be potentially used in bioremediation of heavy metal polluted environment.</i></p> <p>Keywords: Minimum inhibitory concentration, Heavy metal, Bioremediation and resistance Bacillus sp., Pseudomonas sp., Plasmid analysis.</p>

1. Introduction

Accumulation of heavy metal has been arising in soil and water due to the heavy discharge of industrial waste to the environment which is result of growth of industrialization and extraction of natural resources. Since these hazardous heavy metals and toxic chemicals can't be broken down to nontoxic forms, is the major cause that the world is facing today as it not only contaminates the soil, groundwater, sediments, surface water and air but also have long lasting effects on the ecosystem. (Asha and Sandeep, 2013) in their recent study emphasis on the new technologies for the remediation of the natural resources by destructing the pollutants instead of using conventional methods as there is chance of the potential to enter the food chain. It is found scientifically that metals can cause serious health issues if present in body as they disturb our normal functioning, explained by study of (Suranjana and Manas, 2009). But some of these metals when present in low concentration are beneficial like Arsenic, Copper, Iron and Nickel etc. High concentration leads to toxicity which are carcinogenic and mutagenic in nature according to study by Salem et al. (2000).

There have been a lot of researches carried on heavy metal contamination in the sea from last 10 years due to the major factors like mercury problems and the analytical techniques development. Marine environment is a natural resource of heavy metals (Fe, Cu, Zn, Co, Mn, Mo, Se, Ni, Sn) which are biologically essential. Like metallo proteins or metal-protein complexes they occur in enzymes and respirator as metallo proteins or metal protein complexes they occur in enzymes and respiratory pigments, for example, and may have structural role in polychaete jaws. As a result, studies on metal contamination tells the problem of metal present in natural levels and those which are enriched from anthropogenic sources and may, since metals are considerably toxic, produce unwanted effects.

Many technologies are currently being used to clean up heavy metal contaminated soils. The most commonly used technologies are soil removal and land filling, stabilization/solidification, physio-chemical extraction, soil washing, flushing and phytoremediation. None of the above-mentioned techniques are completely accepted as best treatment option till date. Bioremediation is one of the most


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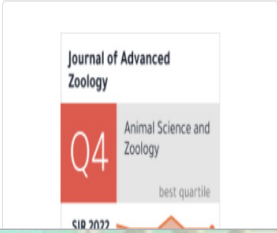
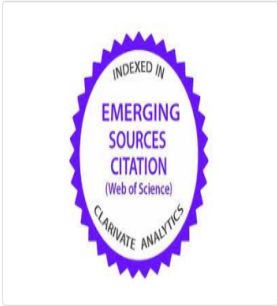
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3. Physiology





Exploring the Antibacterial Potency of Citrus Fruit Peel Extracts Using Various Solvents

Prakash Shoba S., Punitha A., Sona S. M., Thirunirai Selvi G., Venci Candida X. and Anitha C

Department of Zoology, Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University, Tirunelveli, 627 012, India

*Corresponding author's E-mail: prakash.shoba06@gmail.com

Article History	Abstract
<p>Received: 06 June 2023 Revised: 05 Sept 2023 Accepted: 01 Dec 2023</p>	<p>The study evaluates the inhibitory effect of different solvent-extracted citrus peel extracts (<i>Citrus lemon</i>, <i>Citrus sinensis</i>, <i>Citrus maxima</i>, <i>Citrus reticulata</i> and <i>Citrus aurantiifolia</i>) on the growth of various bacterial strains (<i>Klebsiella pneumoniae</i>, <i>Staphylococcus aureus</i>, <i>Pseudomonas aeruginosa</i>, and <i>Escherichia coli</i>). <i>Citrus lemon</i> extract demonstrated the most significant inhibition with methanol and acetone showing the highest zones of inhibition. <i>Citrus sinensis</i> extract showed antibacterial activity, with the choice of solvent influencing the effectiveness. Methanol and acetone generally performed well. <i>Citrus maxima</i> extract demonstrated antibacterial activity, with methanol and butanol being effective solvents. <i>Citrus reticulata</i> extract's effectiveness varied depending on the solvent and bacterial strain tested. Ethanol and butanol were more effective solvents for inhibiting the growth of some bacteria, while acetone and methanol showed limited effectiveness. The <i>Citrus aurantiifolia</i> peel extract exhibited varying degrees of antibacterial activity against the tested bacteria. The effectiveness of the extract depended on the solvent used and the type of bacteria. For some bacteria, such as <i>E. coli</i> and <i>S. aureus</i>, the extract showed significant inhibitory effects, particularly when using Ethanol as the solvent. Further research and optimization may be necessary to enhance the antibacterial properties of <i>Citrus aurantiifolia</i> peel extract.</p>
<p>CC License CC-BY-NC-SA 4.0</p>	<p>Keywords: <i>Citrus lemon</i>, <i>Citrus sinensis</i>, <i>Citrus maxima</i>, <i>Citrus reticulata</i>, <i>Citrus aurantiifolia</i>, Citrus fruit, Antibacterial, Citrus peel.</p>

1. Introduction

Numerous fruits are rich sources of diverse antioxidants, including ascorbic acid, flavonoids, and tannins, which are believed to play a crucial role in disease prevention. In the realms of biochemistry and medicine, antioxidants refer to enzymes or other organic substances like Vitamin E or β -carotene that possess the capacity to counteract the harmful effects of oxidation in both animal tissues and food. It has been suggested that, in addition to inherent defense mechanisms within the body, the intake of dietary antioxidants, particularly phenolic compounds, plays a pivotal role in safeguarding against the detrimental impact of reactive oxygen species (Han et al., 2008). The presence of plant phytochemicals, including phenolics, has been linked to health benefits, stemming from the consumption of higher quantities of fruits and vegetables. The most important commercial fruit in the world is citrus fruit, cultivated in almost all regions. Citrus fruits are primarily utilized by juice processing industries, with the peels typically going to waste. Given that the juice yield of citrus accounts for less than half of the fruit's weight, substantial quantities of byproduct waste, including peels, accumulate annually (Manthey and Grohmann, 2001).

The perishable and seasonal nature of peel waste poses challenges for both processing industries and pollution monitoring agencies. There is a growing interest in extracting value from waste materials, and citrus waste is no exception. Appropriate methods must be employed to harness their potential for transforming them into value-added products (Nand, 1998).

Recovering by-products from fruit waste can enhance the overall economics of processing units and significantly reduce environmental pollution. Citrus peels, abundant in nutrients and a variety of phytochemicals, have the potential to serve as efficient sources for pharmaceuticals and dietary

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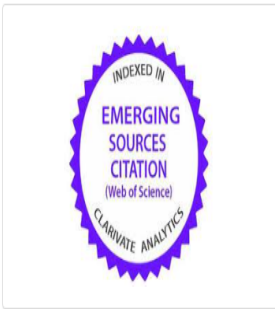
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Purification, Characterization and Antimicrobial Properties of Hemolymph Lectin from the Larva of Red Palm Weevil, *Rhynchophorus ferrugineus*

Arokya Glory PT¹, Basil Rose MR², Josephine Priyatharshini C³, Anitha C⁴, Venci Candida X⁵

^{1,2,3,4,5}Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, India.

*Corresponding author's E-mail: arokyaglory@gmail.com

Article History	Abstract
<p>Received: 06 June 2023 Revised: 05 Sept 2023 Accepted: 02 Nov 2023</p>	<p><i>Lectins are renowned hemagglutinins and multivalent proteins with a well-known quality for sugar-binding specificity that participate significantly in invertebrate defense functions. Studies on biological activity of lectin from coleopteran insect are very scarce. A lectin with specific affinity for N-acetyl neuraminic acid was purified from the hemolymph of the larva of the red palm weevil, <i>Rhynchophorus ferrugineus</i> by biospecific adsorption using formalinized rabbit erythrocytes and affinity chromatography using PSM-linked cyanogen bromide activated Sepharose 4B. The specific activity of the lectin purified by affinity chromatography was much higher than the lectin purified by biospecific adsorption. The binding specificity of the weevil lectin distinguishes it from other known insect lectins. Like the crude agglutinin, the lectin purified by affinity chromatography also showed the same pattern of specificity towards erythrocytes. However, 4-to-8-fold decrease in HA titer was observed when tested with the purified lectin. In the same way, reduction is also observed in the HAI titer of the purified lectin with most of the inhibitors except PSM where the HAI titer was identical both in the crude agglutinin and purified lectin. Sugars N-acetyl neuraminic acid, N-acetyl mannosamine and N-acetyl-D-galactosamine inhibited the HA titer of the purified lectin with greater efficacy than the crude agglutinin. The sialic acid specificity of the lectin was confirmed by 16-fold reduction in HA titer with asialo rabbit erythrocytes and 32-fold reduction in HAI titer with desialylated PSM. The purified lectin is homogenous on sodium dodecyl sulphate-polyacrylamide electrophorogram with a molecular weight of about 60 kDa. The lectin showed antimicrobial activity against pathogenic bacteria <i>Streptococcus mutans</i>, <i>Escherichia coli</i>, <i>Klebsiella pneumoniae</i> and <i>Pseudomonas aeruginosa</i> and fungi <i>Candida albicans</i> and <i>Aspergillus niger</i>.</i></p>
<p>CC License CC-BY-NC-SA 4.0</p>	<p>Keywords: Antimicrobial, hemolymph, lectins, SDS-PAGE</p>

1. Introduction

Agglutinins/lectins are one of the several types of biological resources endowed with biomedical values which could be exploited for their therapeutic and diagnostic potential. They have many biologically significant activities such as, the ability to agglutinate red blood cells, lymphocytes, fibroblasts, spermatozoa, fungal, bacterial and plant cells (Lis and Sharon, 1986) and have found application in cell identification and separation (Kobayashi et al., 1989), detection, isolation and structural studies of glycoproteins (Alroy et al., 1984), investigation of carbohydrates on cells and subcellular organelles (Sharon and Lis, 1989), glycoprotein biosynthesis (Wang et al., 2006) and in diverse fields of clinical interest such as typing of blood cells, carriers of chemotherapeutic agents and as epidemiological and taxonomic markers of specific microorganisms (Slifkin and Doyle, 1990), mapping of neuronal pathways (Yoshihara et al., 1999), mitogenic stimulation of lymphocytes (Gunther et al., 1974), purging of bone marrow for transplantation (Rhodes, 1998) and to study the cell surface receptors of various bacteria, protozoa and fungi and to determine bacterial cell wall components and bacteriophage receptors (Sharon and Lis, 1989).

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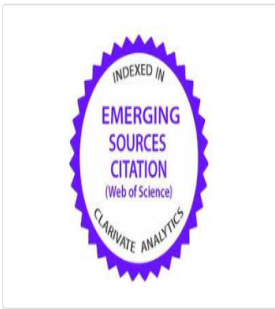
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Exploring Biodiversity: Sampling, Analysis, and Identification of Microbial Treasures in Diverse Soil Ecosystems

Venci Candida X^{1*}, Reneefa P², Pison S³, Prakash Shoba S⁴, Arokya Glory P T⁵, Shenkani K⁶

^{1,2,3,4,5}Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Tamilnadu, India

⁶Department of Zoology, JKKN College of Arts and Science, Komarapalayam, Erode, Tamilnadu, India.

*Corresponding author's E-mail: venciaugustine@gmail.com

Article History	Abstract
<p>Received: 06 June 2023 Revised: 05 Sept 2023 Accepted: 27 Nov 2023</p>	<p><i>In the present study, bacterial colonies in Cashew Oil Industry Soil (COS), Fertilizer-applied Field Soil (FFS) and Control samples were enumerated and characterized across varying dilution factors. The results revealed significant variations in bacterial colony formation across dilution factors, indicating diverse growth rates and population densities. The investigation aimed to discern the microbial populations and characteristics in these contrasting samples. COS and FFS exhibited dilution-dependent colony counts, showcasing distinctions in bacterial populations compared to Control samples. Morphological analysis revealed diverse colony sizes, shapes, and colours, ranging from small to medium, with hues spanning yellow to orange. Margins, elevations, and opacities varied, and Gram staining indicated both positive and negative strains and Gram-positive cocci and diplococci, were identified illustrating taxonomic diversity. Biochemical tests unveiled diverse metabolic traits, identifying <i>Cellobiosococcus</i> sp. and <i>Staphylococcus</i> sp. at the genus level in COS and <i>Micrococcus</i> sp. in FFS. Given that these three bacterial strains were isolated from contaminated soil and considering the prior use of <i>Micrococcus</i> sp. and <i>Staphylococcus</i> sp. in remediation efforts, our upcoming research will specifically concentrate on exploring the bioremediation potential of pollutants using <i>Micrococcus</i> sp., <i>Cellobiosococcus</i> sp., and <i>Staphylococcus</i> sp., with particular emphasis on the unique capabilities of <i>Cellobiosococcus</i> sp. as there are no studies related to <i>Cellobiosococcus</i> sp. involved in bioremediation.</i></p>
<p>CC License CC-BY-NC-SA 4.0</p>	<p>Keywords: Bacterial characterization, Cashewnut oil industry soil (COS), Fertilizer applied field soil (FFS), Biochemical test, Gram staining.</p>

1. Introduction

The intricate world of soil serves as a critical component of terrestrial ecosystems, hosting a myriad of microorganisms that play pivotal roles in nutrient cycling, soil health, and environmental sustainability. This hidden ecosystem, teeming with bacteria, is of paramount importance as humanity faces the challenges posed by rapid industrialization and its environmental consequences. Bacteria, with their simplicity and remarkable adaptability, constitute a diverse kingdom of life, participating in essential processes such as nutrient cycling, nitrogen fixation, disease pathogenesis, and various biotechnological applications. Symbiotic and non-symbiotic bacteria, including *Rhizobium*, *Azotobacter*, *Azospirillum*, *Bacillus*, and *Klebsiella* species, are utilized globally to enhance plant productivity (Cocking 2003).

Industrial soils, shaped by human activities, harbour bacterial communities specialized in pollutant degradation. These bacteria exhibit unique metabolic pathways for breaking down industrial pollutants, making them valuable for bioremediation. The genetic adaptations of bacteria in industrial soils allow them to thrive in the presence of contaminants, emphasizing the need to understand how bacterial communities adapt to environmental transformations (Zaidi *et al.* 2008). Factors such as soil acidity, vegetation types, texture, and nutrient availability influence microbial communities. Physicochemical factors, including fertilizers and industrial waste disposal, impact soil fertility and microbial growth. The continuous use of chemicals may reduce bacterial richness, but the integration of organic fertilizers can regulate microbial growth, promoting the sustainability of crop production (Prashanthi *et al.*, 2021).

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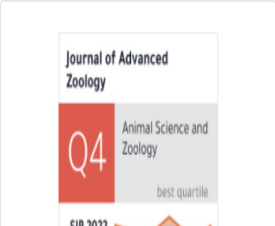
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ISSN: 0253-7214 | Frequency: Continuous | Nature: Online | Language of Publication: English | Publisher: ASSOC ADVANCEMENT ZOOLOGY, AZADANAGAR COLONY RUSTAMPUR, GORAKHPUR, INDIA, 273001

Coverage Areas: Although the list is not prescriptive, JAZ intends to focus on advances in the following sub-domains:

1. Anatomy
2. Ecology
3. Physiology





Physico-Chemical Characterization of a Naturally Occurring Agglutinin in the Hemolymph of the Larva of Red Palm Weevil, *Rhynchophorus ferrugineus*

Arokya Glory PT^{1*}, Basil Rose MR², Josephine Priyatharshini C³, Venci Candida X⁴, Prakash Shoba S⁵

^{1*,2,3,4,5} Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, India.

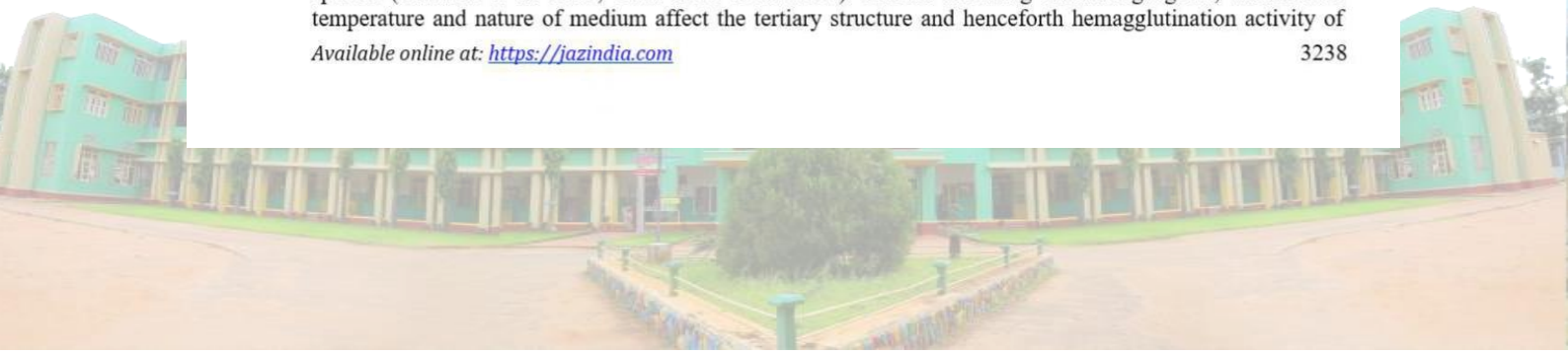
*Corresponding Author: Arokya Glory PT
E-mail: arokyaglory@gmail.com

Article History	Abstract
<p>Received: 12/09/2023 Revised: 28/10/2023 Accepted: 20/11/2023</p>	<p>The hemolymph of most invertebrates contains naturally occurring hemagglutinins with diverse specificities for erythrocytes. A natural agglutinin with high affinity for rabbit erythrocytes was detected in the hemolymph of the larva of the red palm weevil, <i>Rhynchophorus ferrugineus</i>. The HA titer can be ranked as rabbit > guinea pig = dog = horse > human B > human O = buffalo > goat = pig > human A = rat = mice = cow erythrocytes. Maximum hemagglutinin activity with rabbit erythrocytes was observed at pH 7.5 and temperature 30°C to 40°C. The hemagglutinability was calcium dependent and reversibly sensitive to EDTA. The HA activity of the larval hemagglutinin was inhibited by the glycoproteins, Porcine stomach mucin = Fetuin > Bovine thyroglobulin > Transferrin = Apotransferrin > Bovine submaxillary mucin and sugars, N-acetyl mannosamine = melibiose = α-lactose > D-galactosamine > N-acetyl-D-galactosamine = N-acetyl neuraminic acid. Reduction in HA titer with the sialidase treated rabbit erythrocytes revealed the sialic acid specificity of the agglutinin. Presence of a single agglutinin and its proteinaceous nature were unveiled by cross adsorption studies and treatment with denaturing agents respectively. Therefore, the preliminary description of the hemolymph agglutinin would offer ways to perform lectin purification from <i>Rhynchophorus ferrugineus</i>, the red palm weevil.</p>
<p>CC License CC-BY-NC-SA 4.0</p>	<p>Keywords: EDTA, erythrocytes, hemolymph, <i>Rhynchophorus ferrugineus</i> and sialic acid.</p>

INTRODUCTION

An agglutinin with specificity for diverse species of mammalian erythrocytes is identified in the larval hemolymph of the red palm weevil, *Rhynchophorus ferrugineus* by hemagglutination (HA) assays. pH, temperature and ionic conditions are the most common factors that influence lectin activity. (Naem et al. 2007). Most insect agglutinins are thermolabile inspite of the occurrence of heat stable molecules in some species (Minnick et al. 1986; Basil Rose et al. 2014). Factors including denaturing agents, variation of temperature and nature of medium affect the tertiary structure and henceforth hemagglutination activity of

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Source details

Multimedia Tools and Applications

Scopus coverage years: from 1995 to Present

Publisher: Springer Nature

ISSN: 1380-7501 E-ISSN: 1573-7721

Subject area: Engineering: Media Technology Computer Science: Hardware and Architecture
Computer Science: Computer Networks and Communications Computer Science: Software

Source type: Journal

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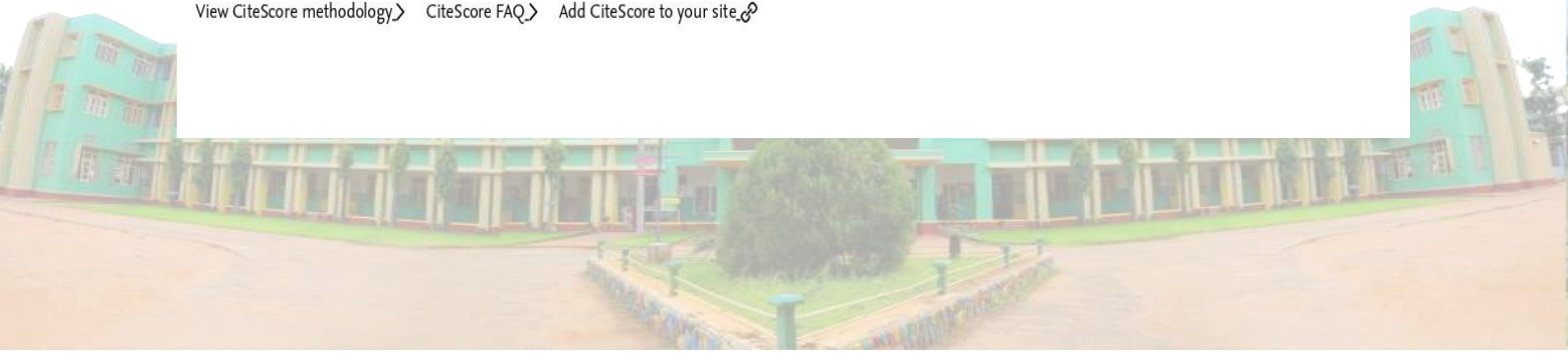
$$7.1 = \frac{50,470 \text{ Citations to date}}{7,084 \text{ Documents to date}}$$

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Category	Rank	Percentile
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Computer Science		
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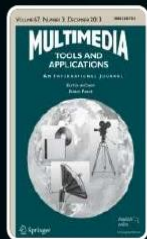
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| Published: 26 October 2023

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Abstract

An exemplary for emerging knowledges and the capacity to provide reliable cloud services, cloud computing. Giving consumers on-demand access to “unlimited” computer resources is one of the key components of cloud computing. Single cloud-holding resources, however, are typically constrained and might not be able to handle the unexpected spike in user demands. In order to support resource sharing amongst clouds, the multi-cloud concept is thus established. These days, offering resources and administrations across numerous clouds is unquestionably amazing. The goal of conventional research on cloud scheduling is to reduce costs or increase speed. However, the major indicator of QoS and a vital problem is the dependability of work process scheduling. As a result, multi-objective scheduling for a logical work process in a multi-cloud environment is suggested in this research with the goal of controlling the work process while also balancing cost and timeliness while satisfying the criterion of reliability. The adaptive golden eagle optimisation (AGEO) algorithm is created to realise this idea. The solution encoding, fitness analysis, and updating functions are used in the proposed algorithm’s validation. Different workflow models are employed for the experimental study, and performance is assessed using various indicators. The projected approach attained 1920 utilization. Similarly, the PSO and GA achieved 1901 and 1900 utilization.

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Source details

Cybernetics and Systems

Formerly known as: J Cybern

Years currently covered by Scopus: from 1980 to 2024

Publisher: Taylor & Francis

ISSN: 0196-9722 E-ISSN: 1087-6553

Subject area: Computer Science: Information Systems Computer Science: Software Computer Science: Artificial Intelligence

Source type: Journal

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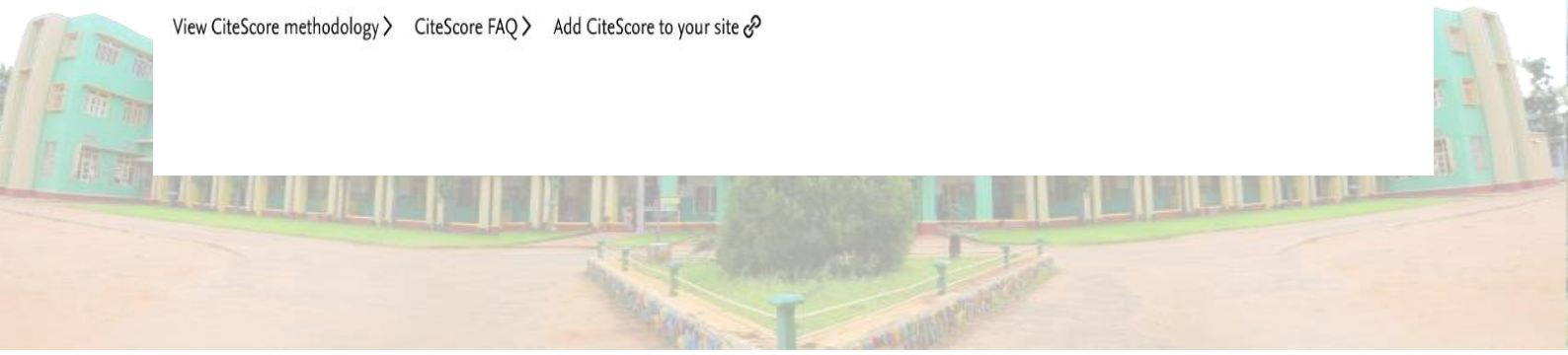
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Category	Rank	Percentile
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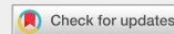
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Research Articles

ODMNet: Automated Glaucoma Detection and Classification Model Using Heuristically-Aided Optimized DenseNet and MobileNet Transfer Learning

Felix Joseph Xavier  & Fanax Femy F.

Pages 245-277 | Published online: 03 Feb 2023

 Cite this article <https://doi.org/10.1080/01969722.2023.2166250> Full Article Figures & data References Citations Metrics Reprints & Permissions[Read this article](#)

Abstract

In various existing works, glaucoma detection is not predicted accurately, which may lead to irreversible vision loss. A new framework is designed for detecting glaucoma by transfer learning approach. In the initial stage, the source images are gathered from standard datasets. After collecting the raw images, it is fed for image enhancement, performed through the Retinex approach. Further, the segmentation process is carried out by Modified DeepLabV3, where the significant Regions of Interest (ROI) are extracted by enhanced images and segmented the abnormalities. To meet the optimal value, the parameters in DeepLabV3 are tuned optimally by the Improved Rain Optimization Algorithm (IROA). Once the image is segmented, it is



Source details

Harbin Gongcheng Daxue Xuebao/Journal of Harbin Engineering University

Scopus coverage years: from 2004 to Present
Publisher: Editorial Board of Journal of Harbin Engineering
ISSN: 1006-7043

Subject area: [Energy: Nuclear Energy and Engineering](#) [Chemical Engineering: General Chemical Engineering](#)
[Engineering: Mechanical Engineering](#) [Engineering: Aerospace Engineering](#)
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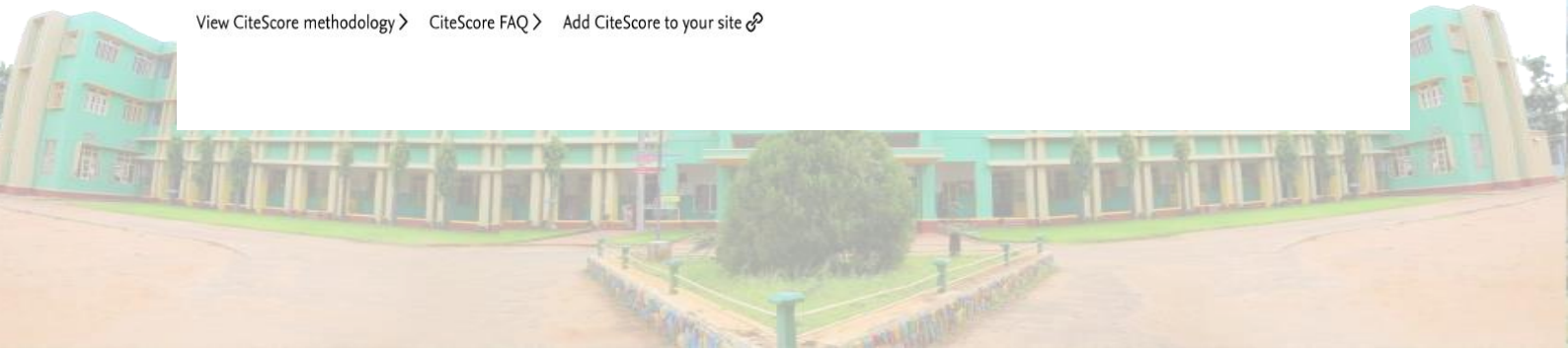
CiteScore 2022 ▼
0.8 = $\frac{870 \text{ Citations 2019 - 2022}}{1,053 \text{ Documents 2019 - 2022}}$
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CiteScoreTracker 2023 ⓘ
0.9 = $\frac{934 \text{ Citations to date}}{1,011 \text{ Documents to date}}$
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The Fragile Threads of Memory: Unraveling the Labyrinth of Memory Spectrum in Julian Barnes' *The Sense of an Ending*

¹Dr. H. Jimsy Asha, ²Benitta. G

¹Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: jimsyasha@holycrossngl.edu.in

²M. Phil Scholar, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: benitta199978@gmail.com

¹Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

²Benitta. G <https://orcid.org/0000-0002-5414-0987>

Corresponding Author: Benitta. G

Abstract

In the realm of literature, memory is an intriguing canvas for exploration offering a rich tapestry for authors to portray the nuances of human memory and its role in shaping narratives and characters. Memory, a cornerstone of human cognition and experience holds an intricate relationship with one's sense of self, perception of reality and understanding of the past. Julian Barnes' *The Sense of an Ending* unveils the complexities of memory presenting it as an adaptive and transformative construct, susceptible to the passage of time, emotional influences and the dynamic interplay of subjective recollection. Memory studies, as a burgeoning field have become an imperative area of research that offers a profound lens through which to explore the ever-evolving nature of human recollection. By employing memory studies as a theoretical lens, the paper entitled, "The Fragile Threads of Memory: Unraveling the Labyrinth of Memory Spectrum in Julian Barnes' *The Sense of an Ending*" endeavors to unveil the intricate tapestry of memory depicted in the novel, emphasizing its subjective nature and how it intertwines with identity and perception of reality. The exploration begins by contextualizing memory as a fragile construct often susceptible to distortion and fragmentation. Barnes masterfully illustrates how memory is not a static archive of the past but a dynamic spectrum affected by the vicissitudes of time. The research deepens one's comprehension of memory's intricate mechanisms and the profound impact it wields on human experience. The study makes a substantial contribution to the ongoing discourse in memory studies and enriches one's understanding of the human psyche in relation to memory and its multifarious manifestations.

Keywords: Collective Memory, Memory Studies, Selective Memory, Memory Distortion, Reconstructive Memory, Narrative Memory

Introduction

Julian Barnes' magnum opus, *The Sense of an Ending* intricately delves into the labyrinth of memory showcasing how it evolves and distorts with the passage of time. The novel navigates through the protagonist Tony Webster's reflective journey ruminating on the unreliable and often elusive nature of memory. Through the lens of Tony Webster, Barnes meticulously delves into the fragility of memory reflecting how its unreliability can alter personal narratives and understanding of reality. Barnes skillfully entwines memory with the aging process illuminating how memory is altered,

skewed and sometimes forgotten as individuals traverse the sands of time. The readers encounter memory's transformative power, its reconstructive nature and its significant impact on the construction of the self as they traverse the narrative landscape.

Memory studies is an interdisciplinary field of research that explores the intricate processes, mechanisms and implications of human memory. The study of memory can be traced back to ancient times but it gained prominence as a distinct discipline in the 20th century. Memory studies encompass psychology, neuroscience, philosophy, history, sociology, anthropology and literary studies.





Source details

Tuijin Jishu/Journal of Propulsion Technology

Scopus coverage years: from 1991 to Present

Publisher: Journal of Propulsion Technology

ISSN: 1001-4055

Subject area: Engineering: Aerospace Engineering

Source type: Journal

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$$1.2 = \frac{1,662 \text{ Citations to date}}{1,351 \text{ Documents to date}}$$

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Category	Rank	Percentile
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Aerospace Engineering	#101/137	26th

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Vol. 44 No. 3 (2023)

Beyond the Frames: Decoding John Crowley’s Artistic Signature in *The Goldfinch* through Filmic Vision

¹Dr. H. Jimsy Asha, ²Benitta. G

¹Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: jimsyasha@holycrossngl.edu.in

²M.Phil Scholar, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: benitta199978@gmail.com

¹Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

²Benitta. G <https://orcid.org/0000-0002-5414-0987>

Corresponding Author: Benitta. G

Abstract

Film as a complex and multidimensional art form offers a canvas for artistic expression, narrative exploration and cultural reflection. Within the realm of film studies, auteur theory has emerged as a foundational principle placing the director at the forefront as the primary creative force shaping the film. The paper entitled, “Beyond the Frames: Decoding John Crowley’s Artistic Signature in *The Goldfinch* through Filmic Vision” delves into the fascinating domain of film studies by applying auteur film theory to *The Goldfinch*, a cinematic masterpiece directed by John Crowley. The film, an adaptation of Donna Tartt’s Pulitzer Prize-winning novel, *The Goldfinch* serves as a rich canvas to examine the director’s imprint and analyze how Crowley’s unique auteurial style informs the narrative, lending depth and coherence to the film. The paper presents an in-depth exploration of *The Goldfinch* through the lens of auteur film theory. The study aims to dissect and analyze the director’s distinct imprint on the film, showcasing how Crowley’s unique style, thematic inclinations and directorial choices echo the essence of auteurism. By examining various facets of the film including narrative structure, visual aesthetics and character development, this research seeks to illuminate the director’s auteurial vision and the extent to which it enriches the film’s cinematic experience. The paper examines the pivotal scenes, directorial decisions and stylistic elements that bear the signature of Crowley’s auteurial influence. This research underscores the applicability of auteur film theory in understanding the director’s role as a creative powerhouse in the realm of cinema and showcases the art of filmmaking as an avenue for profound personal expression and artistic vision.

Keywords: Auteurial Imprint, Cinematic Narrative, Filmic Vision, Thematic Resonance, Visual Aesthetics, Film Studies.

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Assessing Workload's Effect on Nurses' Dedication to Work: A Systematic Examination (<https://namibian-studies.com/index.php/JNS/article/view/6684>)

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The Non-Existent Mirage: An Aesthetic Study OF Donna Tartt's The Goldfinch

Dr. H. Jimsy Asha¹, Benitta. G²

¹Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: jimsyasha@holycrossngl.edu.in

²M.Phil Scholar, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627012, Tamilnadu, India, Email: benitta199978@gmail.com

ORCID

¹Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

²Benitta. G <https://orcid.org/0000-0002-5414-0987>

Corresponding Author: Benitta. G

Abstract

The interplay between literature and visual art has long been a subject of fascination, offering a rich terrain for exploring the intersection of creativity, emotion and interpretation. Donna Tartt's critically acclaimed novel, *The Goldfinch* deals with the world of art that encompasses Fabritius' masterpiece painting "The Goldfinch". The paper employs an interdisciplinary approach to present a new aesthetic encounter for readers, where the realm of visual art is reimagined through the lens of literature. Contrary to traditional cognitivist art theories that often emphasize detached cognitive responses, the paper contends that emotions in art exert a profound influence on individuals. By merging visual art and literature, Donna Tartt's novel bridges the gap between these two mediums and aims to unveil the uncharted territory of emotional resonance. The paper entitled, "The Non-Existent Mirage: An Aesthetic Study of Donna Tartt's *The Goldfinch*" investigates the recurrence of aesthetic emotions, identifies contributing factors and explores the stimuli that evoke ekphrasis, showcasing the intricate connections between visual arts and literary





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Harbin Gongcheng Daxue Xuebao/Journal of Harbin Engineering University

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Scopus coverage years: from 2004 to Present

Publisher: Editorial Board of Journal of Harbin Engineering

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ISSN: 1006-7043

- Subject area:
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JHEU welcomes submissions from both domestic and international researchers, with a focus on original research articles, reviews, and case studies that address significant issues and contribute to the advancement of knowledge in their respective fields. The journal covers a wide spectrum of disciplines, including engineering, applied sciences, computer science, materials science, maritime engineering, oceanography, management, and other related areas.

The editorial team of JHEU consists of distinguished experts in their respective fields, ensuring that each published article undergoes a rigorous peer-review process to maintain the highest standards of quality and academic integrity. The journal is committed to providing a fair and transparent review process that upholds ethical publishing practices, allowing authors to showcase their work to a global audience.

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Vol. 45 No. 04 (2024): Issue 04

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Captive Canaries and Splintered Frames: Unraveling the Tapestry of Trauma in Donna Tartt's *the Goldfinch*

¹Dr. H. Jimsy Asha, ²Benitta. G

¹Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abisheka patti, Tirunelveli - 627012, Tamilnadu, India, Email: jimsyasha@holycrossngl.edu.in

²M.Phil Scholar, PG & Research Department of English, Holy Cross College (Autonomous), Nagercoil-4, Affiliated to Manonmaniam Sundaranar University, Abisheka patti, Tirunelveli - 627012, Tamilnadu, India, Email: benitta199978@gmail.com

¹Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

²Benitta. G <https://orcid.org/0000-0002-5414-0987>

Corresponding Author: Benitta. G

Abstract

In the realm of contemporary literature, Donna Tartt's exquisitely rendered prose, *The Goldfinch* stands as a poignant exploration of human psyche shadowed by the indelible imprints of trauma. *The Goldfinch* takes as its focal point a deeply embedded traumatic event that befalls its narrator, Theodore Decker and traverses the tumultuous journey of its protagonist, through a world marred by loss, tragedy and the haunting echoes of trauma. This paper entitled, "Captive Canaries and Splintered Frames: Unraveling the Tapestry of Trauma in Donna Tartt's *The Goldfinch*" aims to dissect the intricate web of trauma woven into the very fabric of the narrative, shedding light on how the protagonist grapple with and attempt to reconcile his traumatic pasts through the prism of trauma studies. The study is structured to examine the manifestations of trauma, its psychological repercussions and the coping mechanisms Theo adopts in response to his traumatic past. Furthermore, the paper analyses the role of art as a therapeutic outlet as exemplified by Theo's fascination with "The Goldfinch" painting, illustrating how artistic expression can serve as a means of healing and transformation in the aftermath of trauma. Ultimately, this research endeavors to contribute to the growing body of literature that explores the portrayal of trauma in contemporary fiction, illuminating the enduring impact of adverse life events on the human psyche.

Keywords: Childhood Trauma, Disordered Psyche, Memory Distortion, Dissociation, Substance Abuse, Trauma Studies


Trauma studies which trace its origin in the 1990s explore the impact of trauma in literature and society by analyzing its psychological, rhetorical and cultural significance. Psychological trauma, its representation in language and the role of memory in shaping an individual are the central concerns that define the field of trauma studies. The concept of trauma is generally comprehended as a grievously disruptive experience that profoundly impacts the self's emotional organization and perception of the external world. A poignant effect of trauma is the necessity to reconfigure one's identity against a

new and unstable reality. Cathy Caruth elucidates trauma as "a shock that appears to work very much like a bodily threat but is in fact a break in the mind's experience of time" (Trauma: Explorations in Memory). Freudian trauma model proposes trauma as an unrepresentable event that fundamentally fragments the psyche. Michelle Balaev recounts trauma as "a person's emotional response to an overwhelming event that disrupts previous ideas of an individual's sense of self and the standards by which one evaluates society" (Balaev 148).





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Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
Publisher	The Asiatic Society of Mumbai
ISSN	0972-0766
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	General Arts and Humanities
UGC-CARE coverage years	from June-2019 to Present




JOURNAL of
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About Journal



Asiatic Society of Mumbai is a pride of this city. The Society has one of the biggest treasures of different archives. One of such archives is its publication – Society’s Journal. The Journal published its first issue in 1841. In 2016, the enthusiastic editors, who work on honorary basis for the Society, continue to follow the great tradition of their predecessors. It’s a pride that Bharatratna MM Dr. PV Kane was once the editor of Society’s Journal.

Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

- **Name of the Journal** : Journal of the Asiatic Society of Mumbai.
- **ISSN Number** : 0972-0766.
- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
- **City** : Town Hall, Mumbai - 400 023.
- **State** : Maharashtra.
- **Country** : India.

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FROM DIVERSE STROKES TO A UNIFIED CANVAS: UNRAVELING CULTURAL CONVERGENCE IN DONNA TARTT'S THE GOLDFINCH

Dr. H. JIMSY ASHA, Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College (Autonomous), [Affiliated to Manonmaniam Sundaranar University], Nagercoil – 629004, E-mail: jimsyasha@holycrossngl.edu.in

BENITTA. G, M. Phil Scholar, PG & Research Department of English, Holy Cross College (Autonomous), E-mail: benitta199978@gmail.com

ABSTRACT

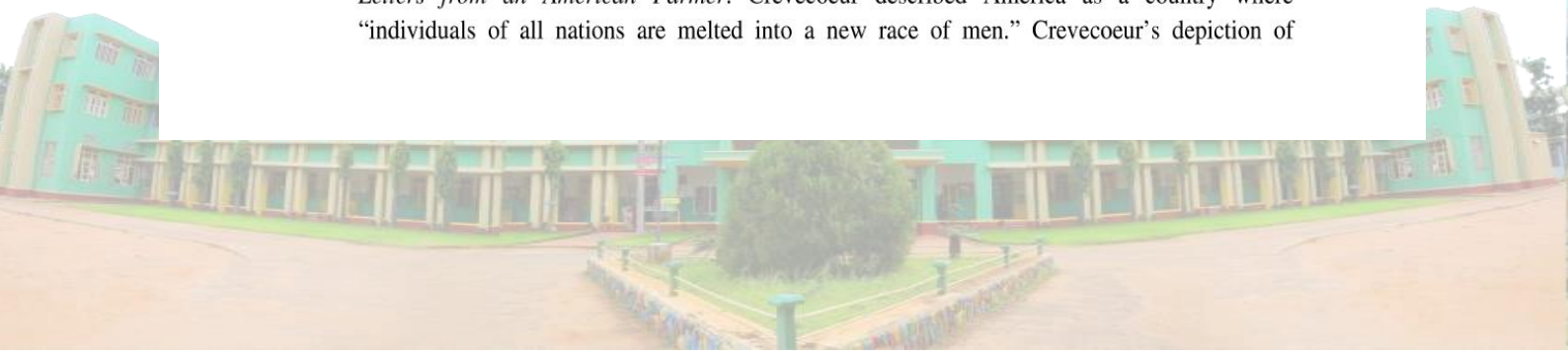
In an era characterized by increasing globalization, cultural diversity has become an integral part of the social fabric. Donna Tartt's *The Goldfinch* stands as a literary embodiment of the American cultural narrative, intricately interwoven with the themes of multiculturalism and the melting pot. Through the life of Theo, the narrative unfolds a rich tapestry of cultural experiences, reflecting the multifaceted nature of American society and the ever-evolving American landscape. The paper entitled, "From Diverse Strokes to a Unified Canvas: Unraveling Cultural Convergence in Donna Tartt's *The Goldfinch*" endeavors to investigate the portrayal of American cultural dynamics in Donna Tartt's *The Goldfinch*, focusing on the intricate weaving of multiculturalism, the melting pot theory and the contrasting realms of high and low culture. Drawing upon literary and cultural studies, the study dissects how Tartt's narrative sheds light on the amalgamation of various cultures, challenging the notion of a singular, homogenized identity often associated with the melting pot theory. Furthermore, the paper explores the symbolic representation of high and low culture, unveiling how the novel underscores the disparities in cultural accessibility, showcasing the intricate stratification that characterizes the American cultural fabric. This research contributes to a nuanced understanding of the American cultural landscape, unveiling the layers of identity and diversity depicted in *The Goldfinch* and providing insights into the ongoing discourse on multiculturalism, cultural coexistence and societal stratification.

KEYWORDS: Multiculturalism, Hybridity, Melting pot, High Culture, Low Culture, Cultural Fusion

INTRODUCTION

Multiculturalism is a fundamental characteristic of American society, epitomizing the nation's rich blend of diverse cultures, traditions, languages and ethnicities. America, often dubbed a melting pot embodies a multicultural ethos. *The Goldfinch* intricately weaves a narrative that serves as a reflection of the broader American cultural mosaic and mirrors America's identity as a melting pot of cultures. The novel unfolds a rich tapestry of characters and settings that embody the diverse cultural amalgamation within American society, showcasing how different backgrounds, traditions and experiences blend and interact.

Amalgamation of settlers of diverse national origin has long been linked with the idealistic self image of America as a new type of nation-state. This idea has been profoundly articulated by J. Hector St. John de Crevecoeur, a French-born immigrant, in his seminal work, *Letters from an American Farmer*. Crevecoeur described America as a country where "individuals of all nations are melted into a new race of men." Crevecoeur's depiction of





Source details

Harbin Gongcheng Daxue Xuebao/Journal of Harbin Engineering University

Scopus coverage years: from 2004 to Present

Publisher: Editorial Board of Journal of Harbin Engineering

ISSN: 1006-7043

- Energy: Nuclear Energy and Engineering
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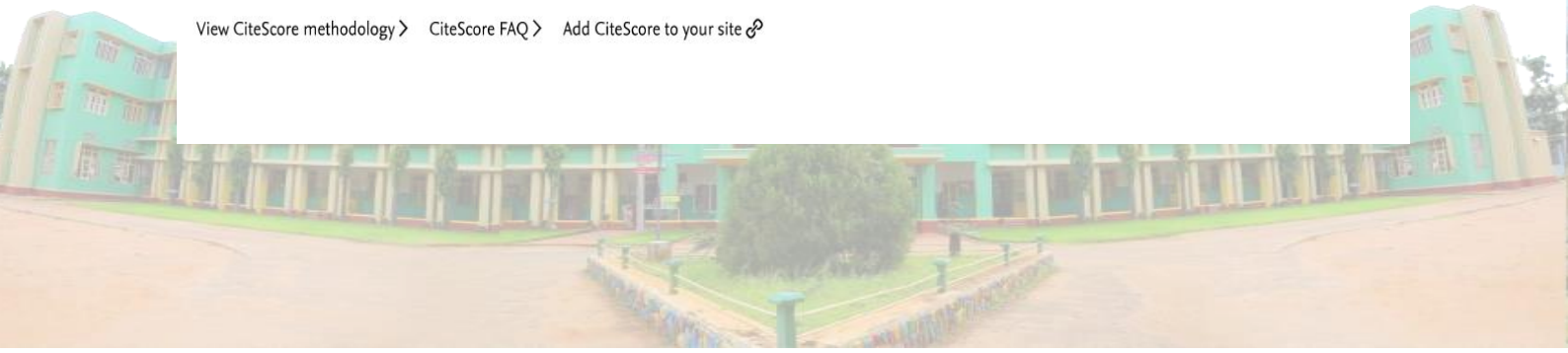
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JHEU welcomes submissions from both domestic and international researchers, with a focus on original research articles, reviews, and case studies that address significant issues and contribute to the advancement of knowledge in their respective fields. The journal covers a wide spectrum of disciplines, including engineering, applied sciences, computer science, materials science, maritime engineering, oceanography, management, and other related areas.

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In addition to its commitment to academic excellence, JHEU also recognizes the importance of accessibility and open access publishing. The journal strives to make research accessible to a wide audience by providing free and unrestricted access to all published articles. This approach promotes the exchange of knowledge and encourages collaboration among researchers from diverse backgrounds and geographical locations.

We invite researchers, scholars, and practitioners from around the world to submit their original work to the Journal of Harbin Engineering University. By contributing to JHEU, you will have the opportunity to share your findings, engage in intellectual discussions, and make a valuable impact on your field of study.

Thank you for your interest in the Journal of Harbin Engineering University. We look forward to receiving your submissions and collaborating with you on the exciting journey of academic exploration and discovery.

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Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in the novel *My Year of Rest and Relaxation* by Ottessa Moshfegh

¹J. Alisha Josephine, ²Dr. H. Jimsy Asha

¹Assistant Professor, Department of English, Holy Cross College, Nagercoil-4,
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.

²Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College,
Nagercoil-4,

Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.

¹J. Alisha Josephine <https://orcid.org/0000-0003-2277-1247>

²Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

Corresponding Author: J. Alisha Josephine

Abstract

The paper entitled, "Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in the novel *My Year of Rest and Relaxation* by Ottessa Moshfegh" integrates insights from both literature and psychology. It scrutinizes the protagonist's struggle with the legacy of a toxic upbringing marked by parental neglect and societal influences, highlighting how early interpersonal interactions shape adult relational patterns and psychological health. Through a close reading of the novel, supported by psychological theories of toxic relationships, the research delineates the profound impact of familial and societal environments on the protagonist's emotional development. The study also contrasts Moshfegh's narrative with broader literary works that address toxic relational dynamics, thus situating the novel within a larger discourse on the subject. By employing a multidisciplinary approach, the paper reveals the complex interplay between literary representation and psychological reality, offering a nuanced understanding of the effects of toxic relationships. It advocates for the therapeutic potential of narrative and the importance of an interdisciplinary perspective in addressing the aftermath of such relationships. The findings call for a continued scholarly dialogue that bridges literary analysis and psychological inquiry, contributing to a holistic view of interpersonal toxicity.

Keywords: Toxic Relationships, Psychological Trauma, Parental Influence, Emotional Development, Narrative Therapy, Interdisciplinary Study.

Introduction

The study, "Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in Ottessa Moshfegh's *My Year of Rest and Relaxation*" probes the complex dynamics of toxic relationships as experienced by the protagonist of Moshfegh's novel. The pivotal roles of society and family in upbringing are examined, particularly how initial human interactions within these spheres during a child's formative years are crucial for social and self-understanding development. However, a toxic environment in these settings can inflict substantial trauma, compromising emotional, psychological, and physical health. Characteristics of toxic relationships often include feelings of being

unsupported, misunderstood, demeaned, or relentlessly criticized.

While parental influence is paramount in child development, societal factors, especially educational systems and community environments, also significantly impact shaping children's psychological and physical growth. Early interactions in these spheres are essential as they influence a child's beliefs and behaviors, especially during formative years when primary social relationships are established. These myriad environmental influences are critical for acquiring social competencies essential for overall development. The community's influence on a child's development is profound. A child's maturation is closely tied to their neighborhood



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ISSN 0302-9832

Vol. 50, Pt. C, Sr. 150, 2020 /Diwali 2077

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Dr. Ram Pande

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INDIA

Shodhak : A Journal of Historical Research

ISSN : 0302-9832

Volume: 53, Issue: 01, No: 05, January - April: 2023

**POSITIVE AND NEGATIVE OUTCOMES OF PART-TIME JOB STUDENTS OF
NAGERCOIL MUNICIPAL CITY**

Dr. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. V. Ahila, Assistant Professor of Commerce, Scott Christian College (Autonomous), Nagercoil.

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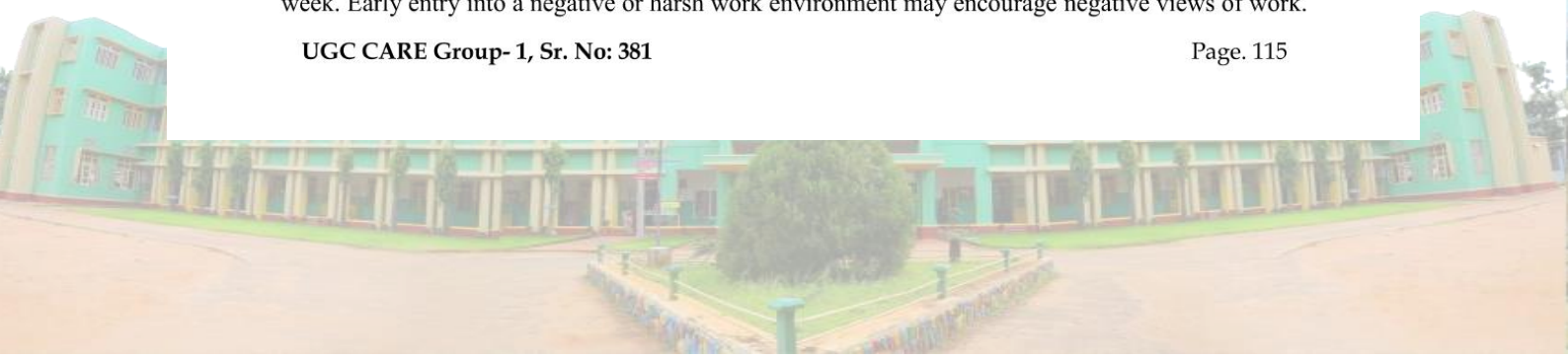
ABSTRACT


A part-time job is a form of employment which carries fewer hours in a week than a full-time employment. The workers work in shift which is often rotational. Part-time workers commonly work fewer than 34 hours per week. A part-time job is any stable and consistent paid work that takes up less than 34 hours in a week. Part-time work is suitable for those who don't want or need the exertion and/or the time commitment that a full-time job demands. Part-time jobs are usually flexible, so the work hours of a part-time employee depend entirely on the needs of their employer. Some part-time employees may be given a fixed work schedule, whilst others may have a fluid schedule that changes according to the company's needs. Some may be required to work in-office, whilst others may be asked to work from home. In this paper, the factors influencing, positive and negative outcomes of part-time job were analysed. The findings of this research paper depicts that the part-time employees have more benefits and they are independent who are not dependent on their parents. Both positive and negative outcomes are there while doing part-time jobs by the students.

Keywords: part-time, employees, students, examination....

INTRODUCTION

Part time work is the work contract for anything less than the basic full-time hours. It can be a good way of balancing work and personal commitments. According to the Ministry of Manpower, "any employee working fewer than 34 hours in a week under a contract of service has a part-time job. There are many reasons for a worker to choose part time. It may be to simply improve their work life balance or they may have caring responsibilities. During the bygone days, teenagers had been focusing only on studies, and part time jobs were not heard by teenage students. Nowadays they have been engaging in part time job, especially in developed nations. Although there are different views on the topic, it is a good idea for teenagers to take up part time jobs while they are students because they can learn about responsibility, punctuality, value of money and also learn how to work as a member in a team. They have to come to work on time every day and there is no room for procrastination. They have to maintain the inventory, update stock registers and have to be responsible in their duties. Students will realize to make a living and this experience will enrich them with confidence to face the life. Students will also make the wiser choice when buying things with the money they earned from their sweat. Students will realize how to compromise with other employees when situation arrives. They also learn about the relationship that comes from teamwork, which will then develop to a team spirit. All of these traits will benefit them in the days to come, in responding to the realities of life. There are also negative consequences of part time employment that may out-weigh the positive benefits such as: working students may not have or make time to complete their work. Employment may place constraints on the studies. Fatigue or lack of preparation for the academic activities may discourage the working teen from going to college and a job may take the place of extracurricular activities. Students who work for more than 20 hours a week have grade point averages that are lower than other students who work 10 hours or less hours a week. Early entry into a negative or harsh work environment may encourage negative views of work.





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Rabindra Bharati University.
Email: sarban09banerjee@gmail.com

Kuntala Bhattacharya, Associate Professor, Department of Philosophy,
Rabindra Bharati University.
Email: kuntala_bhattacharyaredit@gmail.com

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Rabindra Bharati Journal of Philosophy is a blind-double refereed, bilingual journal where original, well researched, scholarly English and Bengali articles in any branch of philosophy are published. The journal is being published annually in printed hard-copy format since 1996 and has been endowed with ISSN number (09730087) in 2003. Volume XVII of the journal is presently ready for publication.

Submission and Publication Charges

The journal is fully funded by Rabindra Bharati University and therefore claims no submission or publication charges.

Publication Policy

RABINDRABHARATI JOURNAL OF PHILOSOPHY
ISSN : 0973-0087

**STUDY ON WOMEN ENTREPRENEURSHIP IN MICRO ENTERPRISES – WITH
SPECIAL REFERENCE TO KANYAKUMARI DISTRICT**

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil

Dr. J. Bhavani, Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil.

Ms. K. B. Steffi, Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil.

Dr. V. Ahila, Assistant Professor of Commerce, Scott Christian College (Autonomous), Nagercoil.

ABSTRACT

Traditionally our society is male dominated and women were not treated as equal partners and they were confined to four walls of the house. In modern world, women have stepped out the house to participate in all sort of activities. Women entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent. When a woman or a group of women embark on initiating, organising and managing their enterprise, they are termed as women entrepreneur. Creative activity of initiating and operating a business venture leading to economic empowerment and social betterment of women in the society can be termed as women entrepreneurship.

KEY WORDS

women entrepreneurship, challenging role, economically independent, women empowerment, women entrepreneur


INTRODUCTION

“When woman moves forward, the family moves, the village moves and the nation moves.” rightly said by Pandit Jawaharlal Nehru.

The increasing presence of women as entrepreneurs has led to significant business and economic growth in the country. Women-owned business enterprises are playing a prominent role in society by generating employment opportunities in the country, bringing in demographic shifts and inspiring the next generation of women founders. When a women or a group of women embark on initiating, organising and managing their enterprise, they are termed as women entrepreneur. Creative activity of initiating and operating a business venture leading to economic empowerment and social betterment of women in the society can be termed as women entrepreneurship. The type of micro enterprises run by women are book binding, clothing business, tailoring, fancy items, selling snacks, vegetable vending, tea stall, coconut vending, tiffin stall, flour grinding, rice muddy, flour business, petty shop, grocery shop, agarbathi and candle making, lime stone, metal business, making paper cones sheep rearing, detergent powder making, phenoyl making, liquid blue preparation, wire bag making etc

STATEMENT OF THE PROBLEM

Traditionally our society is male dominated and women were not treated as equal partners and they were confined to four walls of the house. In modern world women have stepped out the house to participate in all sort of activities. Women entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent. A strong desire to do something positive is an inbuilt quality of entrepreneurial women, who is capable of contributing values in both family and social life. Hence the present study focuses on the motivating factors and problems of women entrepreneurs in micro enterprises with special reference to Kanyakumari district.



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A Bilingual Research Journal of Fine Arts, Culture and Humanities

ISSN 2277-419X | RNI-RAJBIL01578/2011-TC

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ATISHAY KALIT

Vol. 10, Pt. B, Sr. 18, 2023

ISSN : 2277-419X

SHARED CULTURE FOR COSMOPOLITAN IDENTITY: A CRITIQUE OF AMIT CHAUDHURI'S *AFTERNOON RAAG*

Ancy A.

Research Scholar, Department of English, Holy Cross College (Autonomous), Nagercoil (Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India)

V. Virgin Nithya Veena

Assistant Professor, Department of English, Holy Cross College (Autonomous), Nagercoil (Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.)

Abstract

Today, the life choices such as migration, cultural diversity and multiculturalism have increased the interconnectedness and mobility across any cultural and geographical borders. Such transcending of boundaries rather than confining to a particular nation promotes the idea of cosmopolitanism. The cultural cosmopolitanism in the life of a cosmopolitan is the result of multiplicity and overlapping of communities such as nationality, language, religion and ethnicity. It induces vast changes in the cultural framework of society and provides a sense of internationalism. This paper delineates Amit Chaudhuri's approach in encompassing culture on a global scale and the exquisite representation of the cosmopolitan culture in the novel *Afternoon Raag* (1993).

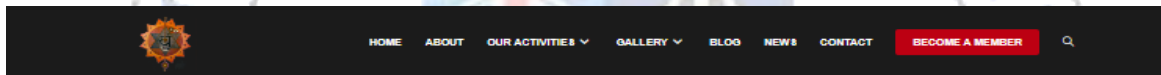
Keywords: cosmopolitanism, cosmopolitan, cultural cosmopolitanism, urban space,

Today, an increasing interconnectedness and mobility across borders has led to a greater awareness of the global community and need for a global ethics. In a way, moving beyond borders promotes the idea that all humans belong to a single community transcending boundaries rather than confining to a particular nation. In other words, the notion of the world as a whole is defined as cosmopolitanism. Cosmopolitanism is a philosophical and political theory that advocates the idea that all human beings belong to one single community. It does not envision human beings as part of one particular culture based on their birth. It goes beyond the homeland encompassing varied cultures on a global scale by developing a positive approach in conversing across social and cultural boundaries to form universality.

The term cosmopolitanism is derived from the Greek word *cosmopolis* which means "citizen of the world", says Kwame Anthony Appiah in an interview. It fetches the idea of connection among people throughout the world despite any boundaries. The person who is subjected to cosmopolitanism is termed as 'cosmopolite' or 'cosmopolitan'. In the life of a cosmopolitan, the idea of culture undergoes several alterations, transactions, acceptance and exchanges from one to another. They do

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Journal Details	
Journal Title (in English Language)	Anhad Lok
Journal Title (in Regional Language)	अनहद लोक
Publication Language	English , Hindi
Publisher	Vyanjana Art and Culture Society
ISSN	2349-137X
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	Visual Arts and Performing Arts
UGC-CARE coverage years	from October-2021 to Present



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Anhad Lok / अनहद लोक

'Anhad Lok' is an international half-yearly research journal that is published by the Vyanjana Art and Culture Society. This magazine has featured articles from scholars, teachers, artists, and renowned artists. The aim is to create a platform for the exchange of thoughts and knowledge among scholars, professors, experts, and artists. These articles have been divided into several chapters, like Gana (Music), Aabadi (Instrument), Nartan (Dance), Thali (Folk heritage), Samayiki (Contemporary), Sanskriti (Culture), and Samwad (Interaction).

संयन्त्रा आर्ट एंड कल्चर सोसायटी आंतरराष्ट्रीय अर्धवार्षिक शोध पत्रिका 'अनहद लोक' प्रकाशित करती है। इस पत्रिका में शोधार्थियों, शिक्षकों, कलाविदों के साथ ही स्वनामधन्य कलाकारों के लेखों का प्रकाशन हुआ है उद्देश्य वे है कि शोधार्थी, कलाकार व शिक्षक सभी एक दूसरे की दृष्टि से अवगत हो सकें। इन लेखों को गान, आभूष, नर्तन, थाली, सामयिकी, संस्कृति, संवाद जैसे अनेक अध्यायों में विभक्त किया गया है।



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Auto Fictionalised Versions of Amit Chaudhuri : A Study of Real-life Characters and Settings

Ancy A

*Research Scholar (20213044012014)
Holy Cross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar
University, Tirunelveli)*

V. Virgin Nithya Veena

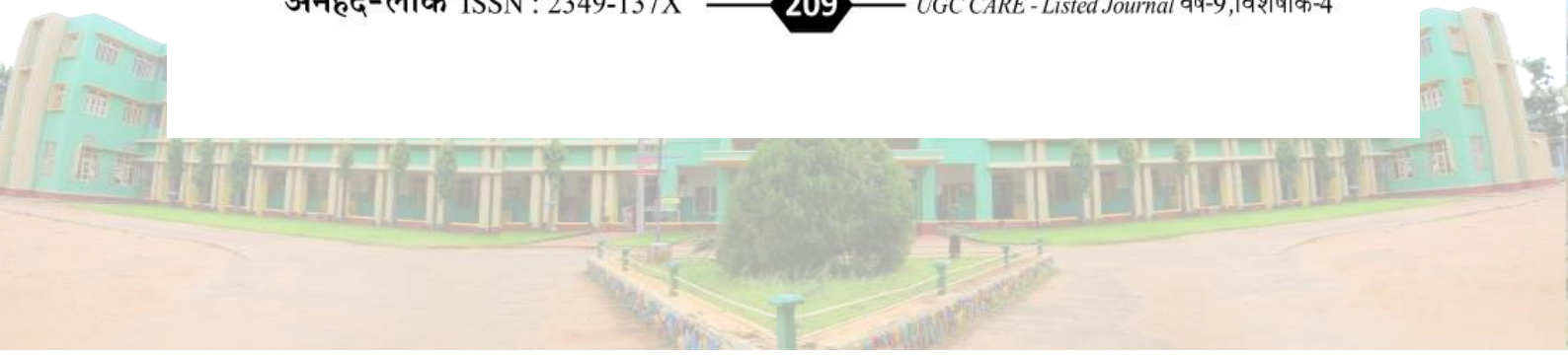
*Assistant Professor
Holy Cross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar
University, Tirunelveli)*

Amit Chaudhuri is an Indian author, academic and musician, who has made significant contributions to contemporary Indian literature. He was born on May 15, 1962 in East Bengal, but spent his childhood in Mumbai, where he attended Cathedral and John Connon School. For his university education, he moved to University College London and earned a Bachelor's Degree in English Literature. Further, he received his Doctoral Degree at Balliol College, Oxford. Then he worked as a freelance and critic in London and started writing for publications such as *The Guardian*, *The Times Literary Supplement* and *The Independent*. He has been the recipient of several awards for his writings, including The Common wealth Writers' Prize, the Betty Trask Award, the *LA Times* Book Prize, the Encore Award and the Sahitya Akademi Award.

The novels of Chaudhuri are well-known for their primary focus on ordinary and everyday life. As a writer, his interest falls on the way in which the mundane can reveal the deeper truths about the human experiences and hence his writings often

explore the small moments and details that make up everyday life. Among readers, his novels are well celebrated for his ability in capturing the rhythms of daily life in India. With the rhythms of daily life, he creates a rich and textured portrait of contemporary India and invites his readers to witness the beauty and complexities of ordinary moments. Overall, his readers could conclude him as a writer of human experience through the exploration of ordinary moments and the rhythms of daily life. The debatable point in this paper is, from where does he choose this everydayness or the rhythm of daily life? Is it completely out of the writer's imagination or is it the fact which he recounts from his personal life. The paper challenges the statement of Chaudhuri, who claims himself as a writer who is detached from the idea of autobiography or autobiographical elements and who is not interested in telling people about his life.

Chaudhuri's readers believe that the everyday they come across in his novels are often drawn from his personal life.



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Journal Details	
Journal Title (in English Language)	South India Journal of Social Sciences
Publication Language	English
Publisher	A. P. Academy of Social Sciences
ISSN	0972-8945
E-ISSN	NA
Discipline	Social Science
Subject	Social Sciences (all)
Focus Subject	General Social Sciences
UGC-CARE coverage years	from June-2019 to Present

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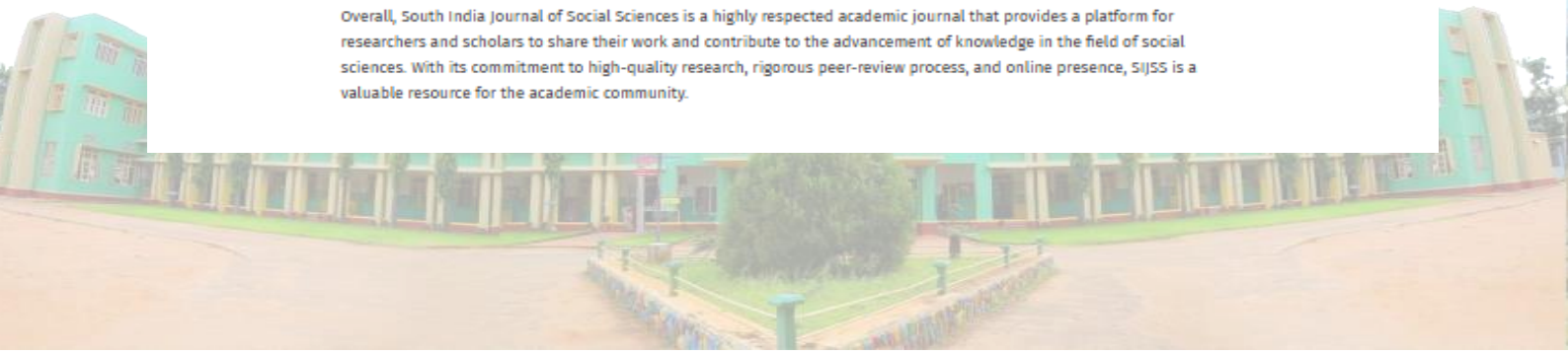
South India Journal of Social Sciences is a prestigious academic journal that is published by the Academy of Social Sciences. The journal covers a wide range of areas within the social sciences, including sociology, anthropology, economics, political science, history, and more. Since its establishment in 2003 as a print journal, SIJSS has been committed to promoting high-quality research and scholarly discourse in the field of social sciences. Our journal is now converted to Quarterly addition from Year 2024 with online presence, making our content more accessible to readers and authors around the world. We are using Open Journal System (OJS) to manage the entire researcher-to-reader workflow for submission, peer review, and production from one place.

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In addition to its commitment to publishing high-quality research, SIJSS has also recognized the importance of staying up-to-date with the latest technological advancements. As a result, the journal is now available online, allowing for easier access to the latest research findings. With its online presence, SIJSS is able to reach a wider audience of scholars and researchers, both nationally and internationally.

The editorial team at SIJSS is composed of experts from various fields, ensuring that all published research is subject to rigorous scrutiny and review. The journal accepts submissions from authors all over the world, providing a platform for researchers to share their work and collaborate with other scholars in their field.

Overall, South India Journal of Social Sciences is a highly respected academic journal that provides a platform for researchers and scholars to share their work and contribute to the advancement of knowledge in the field of social sciences. With its commitment to high-quality research, rigorous peer-review process, and online presence, SIJSS is a valuable resource for the academic community.



SOUTH INDIA JOURNAL OF SOCIAL SCIENCES
ISSN: 0972 – 8945

CUISINE AS THE IDENTITY MARKER OF GENDER AND SPACE IN AMBAI'S "A KITCHEN IN THE CORNER OF THE HOUSE": A SOCIO-CULTURAL CRITIQUE

Abirami. D. (M.Phil English Literature), Holy Cross College, (Autonomous), Nagercoil, Kanyakumari District, Tamil Nadu, India.

Dr. V. Virgin Nithya Veena. Assistant Professor of English, Holy Cross College, (Autonomous), Nagercoil, Kanyakumari District, Tamil Nadu, India.

Abstract

The food, culture and traditions of India have been shaped by its long history and greatly influenced by generations of people. India is known as the land of condiments and spices used for preparing foods throughout the globe. This paper attempts to explain the socio-cultural aspects of a particular society. Each region has specific cultural differences along with its variety in taste, production, traditions and eating habits. These factors are responsible for the diversity of its cuisine. In Indian culture, food is regarded as a means of defining an individual's identity. The paper entitled "Cuisine as the Identity Marker of Gender and Space in Ambai's "A Kitchen in the Corner of the House": A Socio-cultural Critique" analyses the culture, its impact in the gender roles and the quality of space with focus on the cuisine. It attempts to find how society tries to define a woman and her role through her skill in cooking.

Keywords:

Culture, Cuisine, Society, Gender roles, Identity, Space

Culture has been considered a foundation of society, down the ages, in the pages of history. The role of the writer is to authentically describe a cultural norm that she lived or experienced. Every writer bears the stamp of culture and tradition in their literary work to convey the societal imbalance in gender roles. Tradition is a sub-term of culture that binds us with cords which cannot be broken by any law or government because the norms and customs were indestructible. The role of men and women in society has also changed through the influence of modernity. The identity of a woman should not be determined by the opposite gender but instead on her own. In recent years, women have played an increasingly significant role in society as leaders, employers and doctors and have redefined the notion of woman and womanhood. In spite of these, the notion of associating kitchen, exclusively, as that of the women's space continue to prevail in most cultures.

C. S. Lakshmi (1944 -) is a prominent Indian Feminist writer, who writes under the pseudonym Ambai. She altered the literary landscape of fiction with her feminist realities. Antonia Navarro-Tejero has aptly commented,

She is a distinguished fiction writer in Tamil, and her works are characterized by her passionate espousal of the cause of women, humour, a lucid and profound style, and a touch of realism. Most of her stories are about relationships and they contain brilliant observations about contemporary life. Exploration of space, silence, coming to terms with one's body or sexuality, and the importance of communication are some of the recurring themes in her works. (Tejero 92)

Ambai's short story "A Kitchen in the Corner of the House" depicts the plight and pathos of married women who have confined their identity in the kitchen. The lifestyle of gender roles in the society beliefs, values, thoughts, sensations, rituals and customs are manifested in the activities of the individual characters. Ambai portrays the culture, cuisine and society through the life of the Rajasthani family. She attempts to transform the existing gender structures and argues that tradition and culture make women victims who look for their freedom and true identity in the kitchen. She is staunch feminist with "a positive ethics of opposition to patriarchal forms, in all of their diversity" (McHoul 387).



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Journal Details	
Journal Title (in English Language)	Shodha-Prabha
Journal Title (in Regional Language)	शोध-प्रभा, शोध-प्रभा
Publication Language	English, Sanskrit, Hindi
Publisher	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha
ISSN	0974-8946
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	Literature and Literary Theory
UGC-CARE coverage years	from September-2019 to Present

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UGC - CARE LISTED ISSN: 0974-8946

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SHODHA PRABHA (ISSN: 0974-8946)

(A REFERRED & PEER- REVIEWED QUARTERLY RESEARCH JOURNAL)

**Philosopher's Stone as a medium to propagate values in Ashwin Sanghi's
*The Krishna Key***

S.T.Sreenidhi,

Research Scholar,

Department of English,

Holy Cross College (Autonomous), Nagercoil,

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

email – sreenidhi.st@holycrossngl.edu.in

Dr. P.Sathya,

Assistant Professor, Department of English,

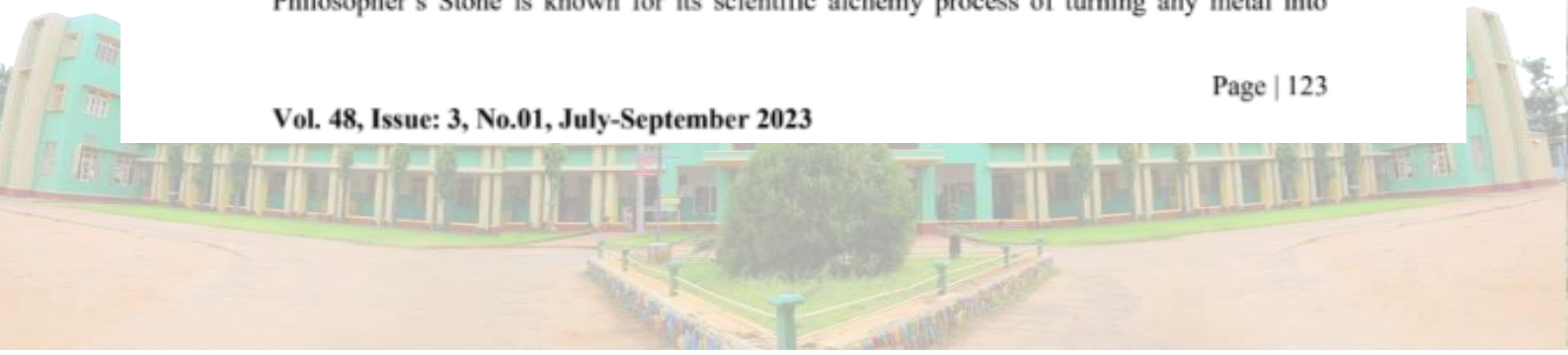
Holy Cross College (Autonomous), Nagercoil,

Affiliated to Manonmaniam Sundaranar University, Tirunelveli

email - sathya.p@holycrossngl.edu.in

Abstract:

Human society leads with its guiding principles of life expressed with a broader term referred as 'Values'. Values are changeable according to the transformation and development of the society. At present, lack of values such as love, compassion, humanity, etc in the society serves to be a major social issue. Writers through ages are discussing this issue directly or indirectly in their works. Ashwin Sanghi, an Indian writer incorporates history, myth, culture and imagination in his works. Among these, myths are known for teaching values and in specific Indian myths. Indian Society has taught and learnt life values through their rich heritage of mythical tales carried out mainly through oral narration. Sanghi in his work *The Krishna Key* spins a tale by blending the epic *Mahabharata* popularly and widely considered as a myth with his imagination. Saini, the protagonist of the novel, tries to find a stolen seal to prove his innocence in a murder case. On the journey to decipher the truth, he comes across various turmoils and truths leading him to The Philosopher's Stone. The Philosopher's Stone is known for its scientific alchemy process of turning any metal into



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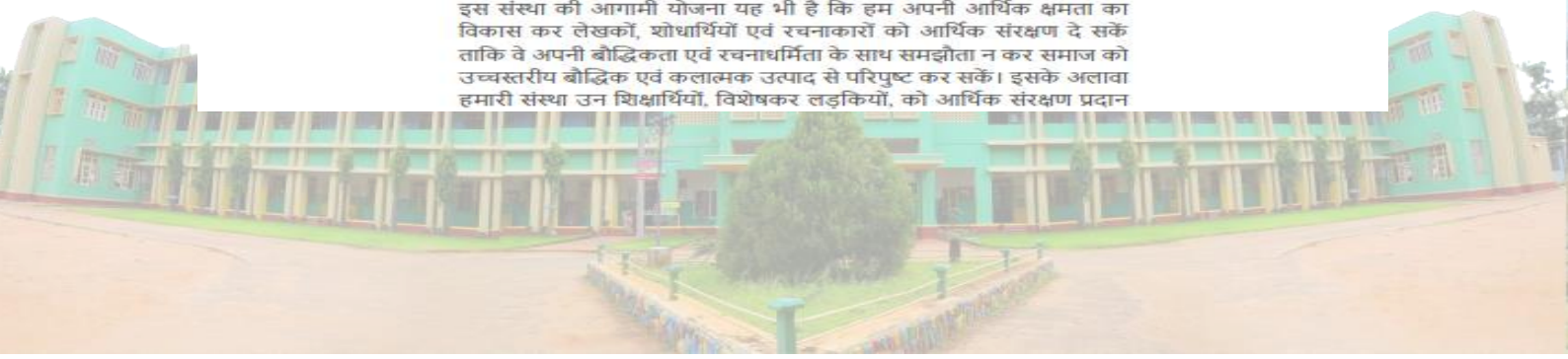
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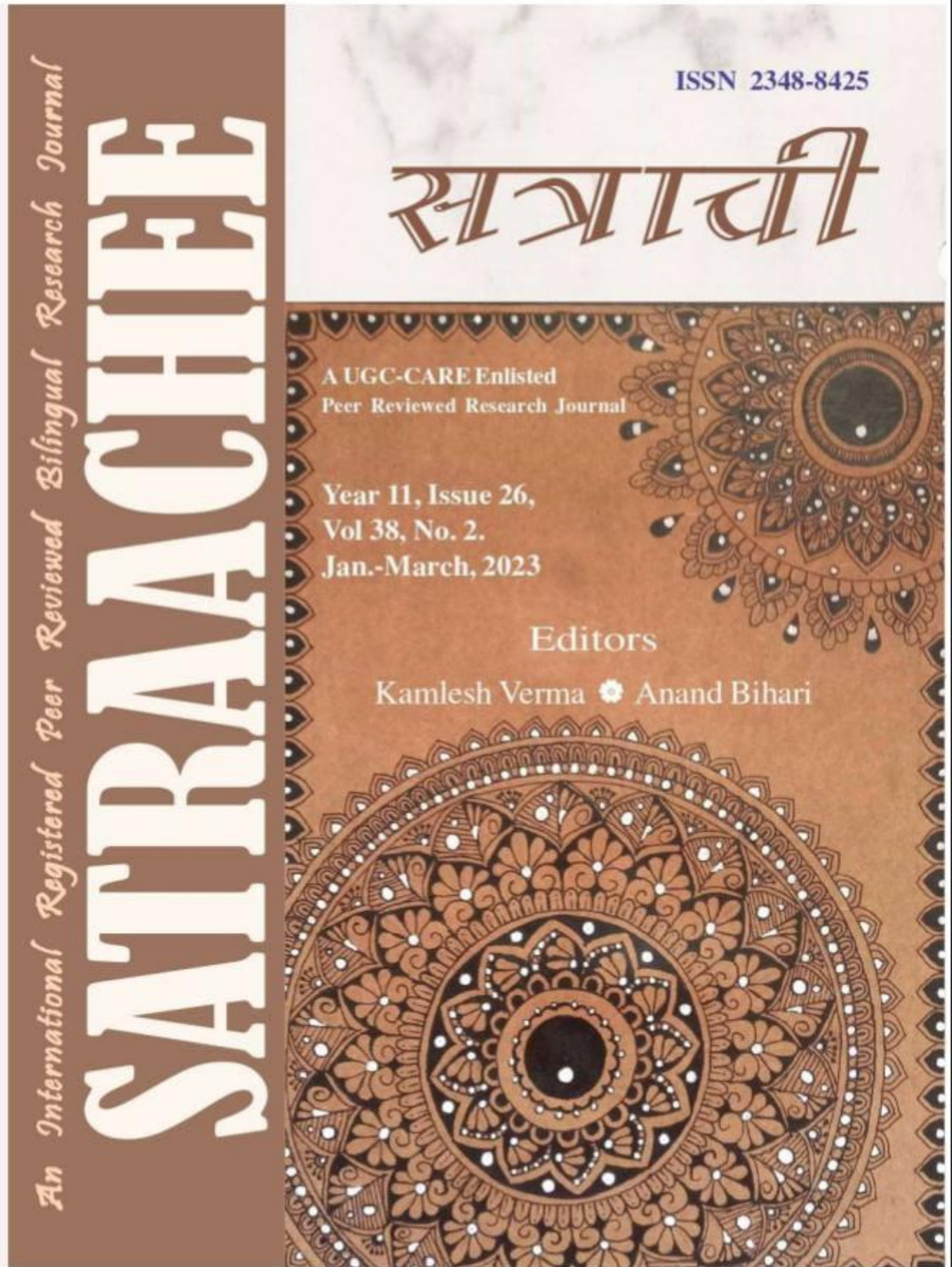


‘सत्राची फाउंडेशन’ कंपनी अधिनियम, 2013, सेक्शन 8 के तहत कारपोरेट मंत्रालय, भारत सरकार द्वारा मान्यता प्राप्त एक शोध संस्था है जो जनवरी, 2021 से सक्रिय है। यह संस्था मुख्य रूप से भाषा, साहित्य, शिक्षा, समाज, राजनीति एवं संस्कृति से संबंधित विषयों में शोध करने.करवाने के साथ-साथ उसे प्रकाशित करने का उद्देश्य रखती है।

बिहार के साहित्यकार एवं उनका साहित्य इस संस्था की प्राथमिकताओं में है। आने वाले दिनों में बिहार के प्रमुख साहित्यकारों की जीवनी, उनकी रचनाओं की संचयिता एवं उनके साहित्यिक वैशिष्ट्य को उद्घाटित करने वाली आलोचनात्मक पुस्तकों का प्रकाशन किया जाएगा। संस्था द्वारा समय-समय पर संगोष्ठियों का आयोजन कर प्रमुख साहित्यिक विभूतियों एवं महत्वपूर्ण विषयों-विमर्शों को नए सिरे से समझने का प्रयास किया जाएगा।

इस संस्था की आगामी योजना यह भी है कि हम अपनी आर्थिक क्षमता का विकास कर लेखकों, शोधार्थियों एवं रचनाकारों को आर्थिक संरक्षण दे सकें ताकि वे अपनी बौद्धिकता एवं रचनाधर्मिता के साथ समझौता न कर समाज को उच्चस्तरीय बौद्धिक एवं कलात्मक उत्पाद से परिपुष्ट कर सकें। इसके अलावा हमारी संस्था उन शिक्षार्थियों, विशेषकर लड़कियों, को आर्थिक संरक्षण प्रदान





Strategies to Teach ESL : A General Perspective

Dr. M. Ilankumaran¹, Dr. R. Abilasha²

¹ Principal : Geetha Jeevan Arts and Science College, Thoothukudi
Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.

² Assistant Professor of English, Holy Cross College(Autonomous), Nagercoil,
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

Abstract

English has become a universal language used for communication by people for so long cutting across the boundaries of countries in the world. The language has been used as a tool to define every aspect of communication that makes a person complete and unique. There are approximately fifteen hundred languages spoken by around two billion people in the world. Among them, very few languages are prominent in communication. English is given priority as far as the global scenario of trade and commerce is concerned. Learning of English as the second language has been the aim of many people to get them connected with the rest of the world. Control of language is something that should be aimed at and taught to students. The aim of the English language teachers is expected to make their students practice to be confident in the language. The experienced teachers know the ways and means to teach the students English as a second language. As they are skilled in their profession, they always control the system of teaching with great care and ensure that the students received it as taught. They avoid using sentence patterns and the words which are unfamiliar with the students. It is the objective of almost every teacher to strive to make the best in the life of the students in terms of the language skills in English. This paper deals with the fact that teaching English to the students as a second language should be done with positive impacts. The challenges in teaching ESL should be tackled with choosing and handling constructive strategies. The strategies that can be practiced in the classroom to attain proficiency in second language are highlighted in this paper.

Keywords : language acquisition, facilitators, academic language, social-emotional learning, Brainstorming activity, communicative competence.

Introduction :

English is taught as a second language in almost all the non-English speaking countries. The language has got familiarized with the students in all aspects. Psychology of the students plays a major role in language acquisition. Language proves to be an essential element in



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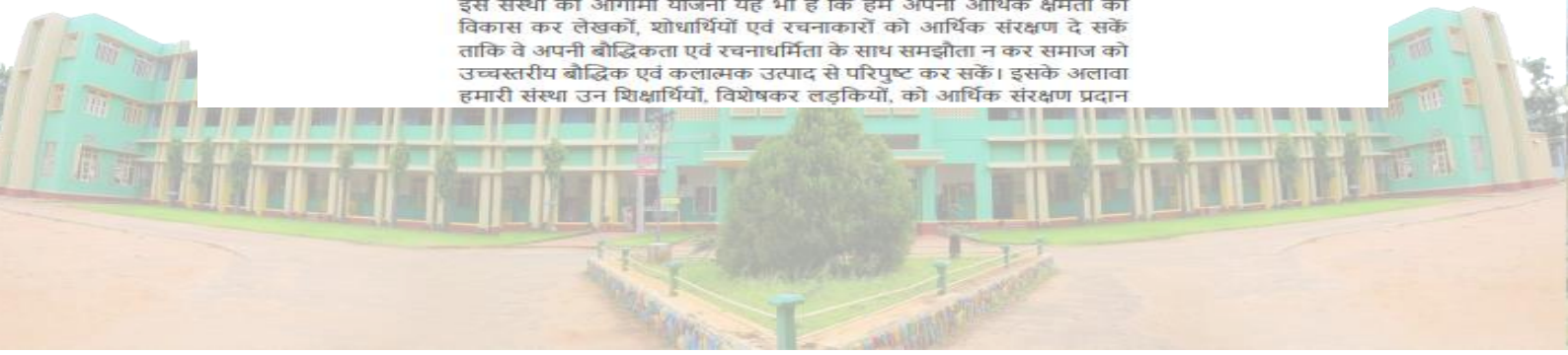
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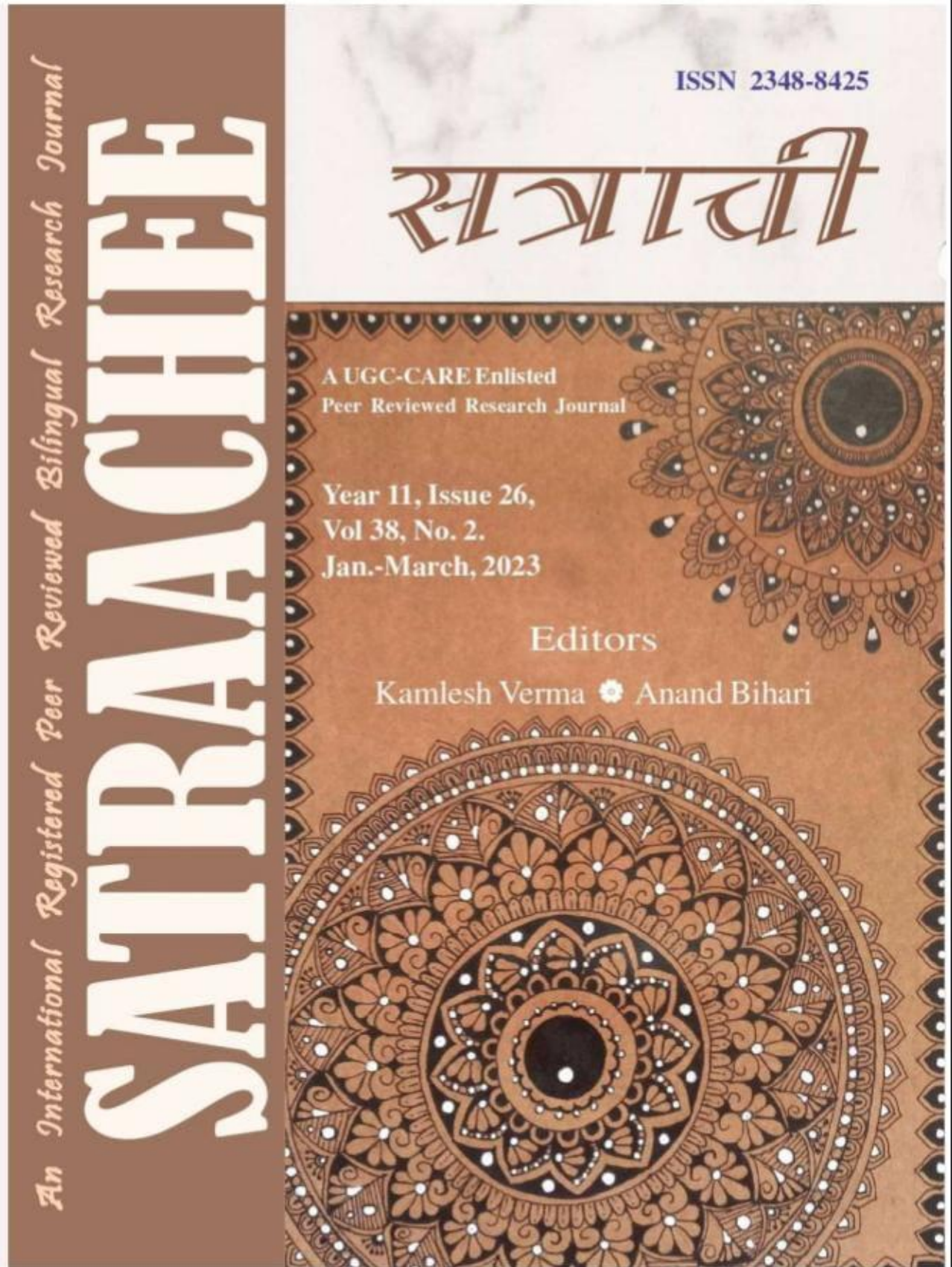


‘सत्राची फाउंडेशन’ कंपनी अधिनियम, 2013, सेक्शन 8 के तहत कारपोरेट मंत्रालय, भारत सरकार द्वारा मान्यता प्राप्त एक शोध संस्था है जो जनवरी, 2021 से सक्रिय है। यह संस्था मुख्य रूप से भाषा, साहित्य, शिक्षा, समाज, राजनीति एवं संस्कृति से संबंधित विषयों में शोध करने.करवाने के साथ-साथ उसे प्रकाशित करने का उद्देश्य रखती है।

बिहार के साहित्यकार एवं उनका साहित्य इस संस्था की प्राथमिकताओं में है। आने वाले दिनों में बिहार के प्रमुख साहित्यकारों की जीवनी, उनकी रचनाओं की संचयिता एवं उनके साहित्यिक वैशिष्ट्य को उद्घाटित करने वाली आलोचनात्मक पुस्तकों का प्रकाशन किया जाएगा। संस्था द्वारा समय-समय पर संगोष्ठियों का आयोजन कर प्रमुख साहित्यिक विभूतियों एवं महत्वपूर्ण विषयों-विमर्शों को नए सिरे से समझने का प्रयास किया जाएगा।

इस संस्था की आगामी योजना यह भी है कि हम अपनी आर्थिक क्षमता का विकास कर लेखकों, शोधार्थियों एवं रचनाकारों को आर्थिक संरक्षण दे सकें ताकि वे अपनी बौद्धिकता एवं रचनाधर्मिता के साथ समझौता न कर समाज को उच्चस्तरीय बौद्धिक एवं कलात्मक उत्पाद से परिपुष्ट कर सकें। इसके अलावा हमारी संस्था उन शिक्षार्थियों, विशेषकर लड़कियों, को आर्थिक संरक्षण प्रदान





Emergence of Newwoman in the Select Novels of Chitra Banerjee Divakaruni

Dr. R. S. Suganth¹, **Dr. R. Abilasha²**, Dr. M. Ilankumaran³

¹ Full-Time Scholar, Noorul Islam Centre for Higher Education, Kumaracoil,
Thuckalay, Tamil Nadu, India.

² Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil,
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

³ Principal, Geetha Jeevan Arts and Science College, Thoothukudi,
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli), Tamil Nadu, India.

Abstract

Women play a major role in the development of the society. They never fail to admire the modern world with their success and ability. Though women are capable of achieving greatness, they are subjected to various problems in the patriarchal society. Chitra Banerjee Divakaruni plots various issues faced by women in the constructive patriarchal society. Women are treated as secondary in the family and giving birth to a girl child is considered to be a sin. Men treat women as a material and never try to understand the emotions and feeling of them. The paper articulates how the women characters from Divakaruni's chosen novels break the chains of suffering and pains. It also gives certain insight on issues faced by immigrant women in foreign lands. Women lead a society towards progress and stand against all the evils prevailing in the society. The study clearly makes an analysis on the evolution of women to new women who lead independent lives towards success.

Keywords : Patriarchal, Society, Evolution, New Women, Immigrant.

In India, literature gained prominence, after the establishment of East India Company. The British taught English to many people belonging to the then royal class and they started to express their ideas in English. Rabindranath Tagore and Bakim Chandra Chaterjee are the pioneers of Indian literature. They relied upon their mother tongue and translated their own works in English. This is the beginning of Indian Literature in English. Indian literature is unique and peculiar in its style and writing. The writers brought out their culture, tradition, social evils and voiced out for the poor people who faced lot of problems from the high-class land lords and barons. Mulraj Anand and Raja Rao are the pioneers to bring out the social evils with the help of literature.



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Publication Language	English , Sanskrit , Hindi
Publisher	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha
ISSN	0974-8946
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	Literature and Literary Theory
UGC-CARE coverage years	from September-2019 to Present

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UGC - CARE LISTED ISSN: 0974-8946

अनुसन्धान-प्रकाशन-विभागीया त्रैमासिकी शोध-पत्रिका

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प्रो. शिवशङ्करमिश्रः
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SHODHA PRABHA (ISSN: 0974-8946)

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Teachers' Role in Abating the Psychological Hinders of L2 Learners

S. SajnaBeevi,
Assistant Professor of English,
Noorul Islam College of Arts and Science,
Kumaracoil, Tamilnadu, India.
Email: sajnahameed278@gmail.com

Dr. R. Abilasha,
Assistant Professor of English,
Holy Cross College (Autonomous),
Nagercoil, Tamilnadu, India.
Email: abilasha.r@holycrossngl.edu.in

Dr. Suganth R S,
Assistant Professor of English,
SivanthiAditanar College, Pillayarapuram,
Nagercoil, Kanyakumari 629 501.
Email: suganthrs1992@gmail.com

Abstract

Language is an effective tool of communication and is considered as a remarkable achievement in human evolution. In that way, English Language plays a prominent role in the current scenario as a window of the world. Gradually, the demand of English Language has developed all over the countries and it has acquired a global accreditation. Owing to its popularity, English is used as a second language in India and resulting in its pragmatic appeal in all day today endeavors. Normally learners are interlinked with the ability of teachers and their influence help learners carry out their academic success. When students start learning English as a second language apart from a subject oriented, it is difficult for them to easily adapted to it. They would face real challenges while imbibing English as the second language. Students always expect positive reinforcement from the teachers to overcome their psychological challenges in learning the language. This paper shows that a teacher can instill boldness and confidence in the usage of English Language through proper psychological training, counselling which in turn reduces the apprehension and shyness of the learners. By properly understanding the



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Journal Details	
Journal Title (in English Language)	Shodha-Prabha
Journal Title (in Regional Language)	शोध-प्रभा, शोध-प्रभा
Publication Language	English , Sanskrit , Hindi
Publisher	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha
ISSN	0974-8946
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	Literature and Literary Theory
UGC-CARE coverage years	from September-2019 to Present

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UGC - CARE LISTED ISSN: 0974-8946

अनुसन्धान-प्रकाशन-विभागीया त्रैमासिकी शोध-पत्रिका

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प्रो. मुरलीमनोहरपाठकः
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सम्पादकः
प्रो. शिवशङ्करमिश्रः
 शोधविभागाध्यक्षः

सहसम्पादकः
डॉ. ज्ञानधरपाठकः



श्रीलालबहादुरशास्त्रीराष्ट्रीयसंस्कृतविश्वविद्यालयः
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SHODHA PRABHA (ISSN: 0974-8946)
(A REFERRED & PEER- REVIEWED QUARTERLY RESEARCH JOURNAL)
Second Language Proficiency through Task Based Language Teaching (TBLT)

Gandhi Mathi.G, Copy Editor,
T3 India at Next Gen Publishing Limited, Mumbai
E-mail: gandhimathi2312@gmail.com
Mobile: 6384899563

Dr. Abilasha. R,

Assistant Professor of English,
Holy Cross College (Autonomous),
Nagercoil- 629 004,
Affiliated to ManonmaniamSundaranar University, Tamil Nadu.
E-mail: abilasharajan1976@gmail.com
Mobile: 9789102904

Abstract

Communication is important in all settings, including workplaces, institutions, and interviews. Language is a tool for communication, and language teaching aims to improve communication skills. English language teaching is the process of developing four language skills amidst the learners whose first language is not English. Listening, speaking, reading, and writing are the skills highlighted. This paper evaluates the significance of task-based language acquisition. The activities in the paper aim to improve the language skills through task-based teaching and learning. The tasks enlisted in the paper are classroom friendly and there are not many barriers or time frame. Guidelines are provided for each activity.

Key Words

Proficiency, Understanding, Activity, Learning, Language Skills,

Communication is the act of transferring information and understanding from one person to another. The two main components of communication are verbal and nonverbal communication. Verbal communication conveys information through words. It can take the





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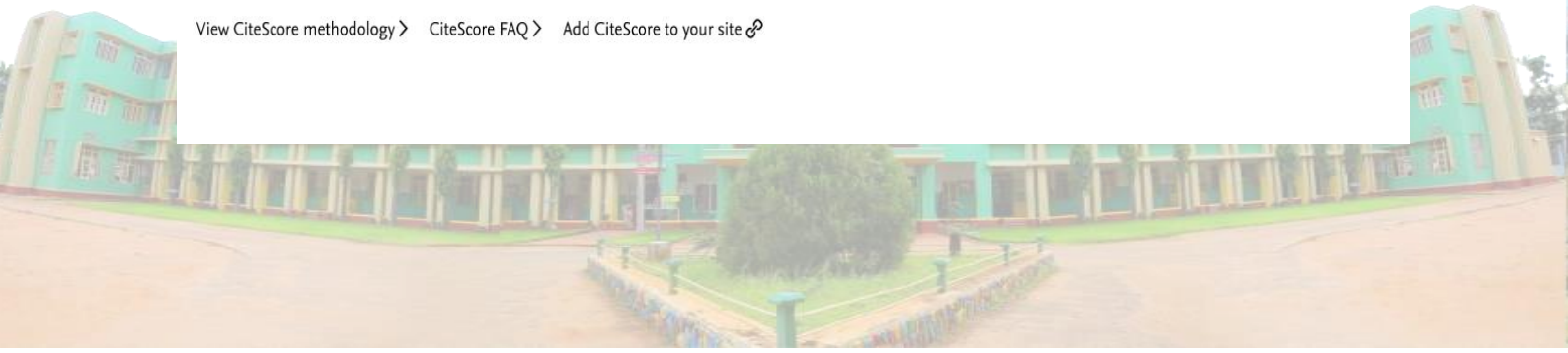
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Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in the novel *My Year of Rest and Relaxation* by Ottessa Moshfegh

¹J. Alisha Josephine, ²Dr. H. Jimsy Asha

¹Assistant Professor, Department of English, Holy Cross College, Nagercoil-4,
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.

²Assistant Professor and Research Supervisor, PG & Research Department of English, Holy Cross College,
Nagercoil-4,

Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.

¹J. Alisha Josephine <https://orcid.org/0000-0003-2277-1247>

²Dr. H. Jimsy Asha <https://orcid.org/0000-0002-6615-0162>

Corresponding Author: J. Alisha Josephine

Abstract

The paper entitled, "Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in the novel *My Year of Rest and Relaxation* by Ottessa Moshfegh" integrates insights from both literature and psychology. It scrutinizes the protagonist's struggle with the legacy of a toxic upbringing marked by parental neglect and societal influences, highlighting how early interpersonal interactions shape adult relational patterns and psychological health. Through a close reading of the novel, supported by psychological theories of toxic relationships, the research delineates the profound impact of familial and societal environments on the protagonist's emotional development. The study also contrasts Moshfegh's narrative with broader literary works that address toxic relational dynamics, thus situating the novel within a larger discourse on the subject. By employing a multidisciplinary approach, the paper reveals the complex interplay between literary representation and psychological reality, offering a nuanced understanding of the effects of toxic relationships. It advocates for the therapeutic potential of narrative and the importance of an interdisciplinary perspective in addressing the aftermath of such relationships. The findings call for a continued scholarly dialogue that bridges literary analysis and psychological inquiry, contributing to a holistic view of interpersonal toxicity.

Keywords: Toxic Relationships, Psychological Trauma, Parental Influence, Emotional Development, Narrative Therapy, Interdisciplinary Study.

Introduction

The study, "Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perspectives in Ottessa Moshfegh's *My Year of Rest and Relaxation*" probes the complex dynamics of toxic relationships as experienced by the protagonist of Moshfegh's novel. The pivotal roles of society and family in upbringing are examined, particularly how initial human interactions within these spheres during a child's formative years are crucial for social and self-understanding development. However, a toxic environment in these settings can inflict substantial trauma, compromising emotional, psychological, and physical health. Characteristics of toxic relationships often include feelings of being

unsupported, misunderstood, demeaned, or relentlessly criticized.

While parental influence is paramount in child development, societal factors, especially educational systems and community environments, also significantly impact shaping children's psychological and physical growth. Early interactions in these spheres are essential as they influence a child's beliefs and behaviors, especially during formative years when primary social relationships are established. These myriad environmental influences are critical for acquiring social competencies essential for overall development. The community's influence on a child's development is profound. A child's maturation is closely tied to their neighborhood





Source details

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Scopus coverage years: from 1991 to Present

Publisher: Journal of Propulsion Technology

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Subject area: Engineering: Aerospace Engineering

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TuijinJishu/Journal of Propulsion Technology
ISSN: 1001-4055
Vol. 44 No.6 (2023)

Beyond Irony and Disillusionment: Decoding Cultural Paradigms in David Foster Wallace's *Infinite Jest*

¹J. Alisha Josephine² Benitta. G.

¹Assistant Professor, Department of English, Holy Cross College, Nagercoil-4,
Affiliated to ManonmaniamSundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.
²M. Phil Scholar, Department of English, Holy Cross College, Nagercoil-4,
Affiliated to ManonmaniamSundaranar University, Abishekapatti, Tirunelveli- 627012, Tamilnadu, India.

Abstract: The paper "Beyond Irony and Disillusionment: Decoding Cultural Paradigms in David Foster Wallace's *Infinite Jest*" explores David Foster Wallace's novel as a critique of late 20th and early 21st-century American culture. Set in a hyper-consumerist, postmodern society, the narrative comments on culture, media, and individual identity, focusing on irony and consumerism. The study examines Wallace's satirical depiction of American culture's response to environmental and biological challenges, reshaping human existence. It situates *Infinite Jest* within postmodern literature, comparing it with works by Thomas Pynchon and Kurt Vonnegut, and reflects on theories by Roland Barthes and Jacques Derrida. The paper highlights Wallace's anticipation of post-postmodernism, emphasizing a rejection of traditional coherence and truth in favor of a diversified, subjective human experience. It addresses existential crises in a media-saturated, corporatized environment, with insights into U.S. societal and individual consciousness. *Infinite Jest* is presented as a pivotal text in understanding contemporary cultural and societal influences, extending beyond postmodernism to offer commentary on the human condition. The study emphasizes Wallace's novel as a vital text in discerning contemporary culture, irony, and entertainment's impact on civic responsibility and personal identity. It explores how *Infinite Jest* presents a satirical critique of American culture, focusing on media influence, existential challenges, and the human condition, marking the transition from postmodernism to post-postmodernism.

Keywords: Postmodernism, Cultural Critique, Media Influence, American Society, Satire, Millennial Generation, Consumerism, Existential Crisis


1. Introduction


In "Beyond Irony and Disillusionment: Decoding Cultural Paradigms in David Foster Wallace's *Infinite Jest*," embark on a comprehensive exploration of the intricate layers and themes presented in Wallace's magnum opus. *Infinite Jest*, renowned for its dense narrative and intricate structure, is not just a novel but a cultural artefact that encapsulates the ethos of the late 20th and early 21st centuries. Wallace, through his uniquely layered storytelling, dissects the multifarious aspects of American life, delving into the complexities of postmodernism and its evolution into post-postmodernism. This paper aims to unravel the various threads of societal critique, technological influence, addiction, and the human quest for meaning, as presented in Wallace's seminal work. By closely examining the novel's portrayal of a society caught between the ironies of freedom and the disillusionments of progress, seek to understand the deeper cultural paradigms that Wallace challenges and redefines in his narrative.


In *Infinite Jest*, David Foster Wallace embarks on a profound cultural critique, encapsulating the transition from postmodernism to post-postmodernism. Wallace's narrative sharply satirizes American culture, particularly highlighting how societal values and norms have been reshaped in the late twentieth and early twenty-first centuries. This period, marked by a shift from the scepticism and irony of postmodernism, delves into the complexities of post-postmodernism, which attempts to reconcile the cynicism of the previous era with a


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Journal Details	
Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
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UGC-CARE coverage years	from June-2019 to Present



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Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

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ஈழக் கவிதைகளில் புலம்பெயர் தாக்கம்

முனைவர். செ. தேன்மொழி, உதவிப்பேராசிரியர், தமிழ்த்துறை, ஹோலிகிராஸ் கல்லூரி, நாகர்கோவில்.

முன்னுரை:

புலம்பெயர் இலக்கியம், புகலிட இலக்கியம்(Exil Literature), பேரழிவு இலக்கியம், அகதி இலக்கியம்(Refuge Literature), புலம்பல் இலக்கியம், ஆறாந்திணை இலக்கியம் எனும் சொல்லாடல்கள் இன்றைய தமிழ் இலக்கிய உலகில் பரவலாக பயன்படுத்தப்படும் ஒன்றாகும். இதனை ஈழப்போர் காரணமாகத் தமிழில் தோன்றிய புதிய இலக்கியவகையாகக் கொள்ளலாம்.

ஈழப்போரும்- புலம்பெயர்வும்:

புலம் பெயர்வு என்பது தம் இருப்பிடத்தை விட்டு தமக்கு தெரியாத, முற்றிலும் வேறுபட்ட குழல் நிலவும் அந்நியமான நாட்டிற்குக் குடிபெயர்தல் ஆகும். இது போர், இயற்கைச் சீற்றம், பொருள்தேடல் போன்ற பல காரணிகளால் நிகழ்கின்றது. ஆய்வாளர்கள் பொருள் தேடல் காரணமாகச் செல்வதை புலம்பெயர்தலில் உட்படுத்தல் பொருந்தாது என்பர். தனிமனிதனோ, குடும்பமோ, குறிப்பிட்ட சமூகமோ தம் இருப்பிடத்தை கட்டாயத்தின் பேரில் மாற்றுவதை புலம்பெயர்தலில் உட்படுத்தலாம்.

ஈழத்தில் இருவேறு காலகட்டங்களில் அதிக அளவில் புலம்பெயர்தல் நடைபெற்றது. அதில் 1960 களில் புலம் பெயர்ந்தவர்கள் உயர்கல்வி பெற்றவர்கள். இவர்கள் ஈழத்தில் பிரச்சனைத் தொடங்கியதுமே திட்டமிட்டு, பணி நிமித்தம் தம் குடியிருப்பை மாற்றிக் கொண்டவர்கள்.

ஆனால் 1980 களுக்குப் பிறகு புலம்பெயர்ந்தவர்களில் பெரும்பான்மையோர் கல்வி அறிவு பெறாத சாதாரண மக்கள். இவர்கள் புலம்பெயர்தலுக்குத் தம்மை எவ்விதத்திலும் தயார் செய்யாதவர்கள் போரின் போது தம் உடமைகளைத் துறந்து, சொந்த மண்ணை விட்டு, உறவுகளைப் பிரிந்து உயிரைக் காப்பாற்ற வேறு வழியின்றி புகலிடம் தேடி அந்நியநாட்டிற்குப் புலம் பெயர்ந்தவர்கள். இவ்விரண்டாம் பிரிவினரையே ஆய்வாளர்கள் புலம்பெயர்ந்தோர் வரிசையில் வைக்கின்றனர்.

ஈழப்போரின் முன்னரே நாட்டை விட்டு இடம் பெயர்ந்தவர்கள் தம் மக்களின் படுகொலையை பிற மக்களைப் போன்றே தொலைக்காட்சியிலும் இணையதளத்திலும் கண்டவர்கள், தம்மவர் சொல்லக் கேட்டவர்கள் அறிவால் மட்டுமே தம் இனமக்களின் படுகொலையை, துன்பத்தை அறிந்தவர்கள்.


இறுதிக்கட்ட போரின் போதும் நாட்டைவிட்டு வெளியேறாத ஈழத்தமிழர்கள் அங்கு நடந்த பல்வேறு இனகொடுமைகளைக் கண்ணால் கண்டும் அனுபவித்தும் வாழ்ந்தவர்கள்.

ஆனால் போர் தீவிரமாக நடைபெற்றுக் கொண்டிருந்த காலகட்டத்தில் புலம்பெயர்ந்தவர் இனப்படுகொலையைக் கண்டு அனுபவித்தவர்கள். இவர்கள் பல்வேறு இன்னல்களுக்கிடையே தம் சொந்த வீட்டை விட்டு கையில் கிடைத்ததை எடுத்துக் கொண்டு உயிரைக் காப்பாற்ற பயணப்பட்டவர்கள். இவர்கள் ஈழத்திலுள்ளவர்கள் அனுபவித்த வலிகளையும் கொடுமைகளையும் தாங்களும் அனுபவித்ததுடன் தம் சொந்த மண்ணைவிட்டு இடம்பெயர்ந்து தம் பயணத்தின் போது வழியில் பல்வேறு இன்னல்களை அனுபவித்து மொழி, கலாச்சாரம் இவற்றால் வேறுபட்ட அந்நிய நாட்டிற்குச் சென்று அங்கும் போராடித் தம்மை நிலை நிறுத்தியவர்கள். சிங்கள ராணுவத்தின் கொலைவெறி தாக்குதலிலிருந்து தப்பி வந்த இவர்கள் அறிவால் மட்டுமன்றி அனுபவத்தாலும் சிங்கள ராணுவத்தின் கொடுமைகளை அறிந்தவர்கள். இவர்களை புலம்பெயர்ந்த தமிழர்(The Tamil Diaspora) என்கின்றனர்.




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குதிரைக்காரன் சிறுகதையின் பன்முகத்தன்மை

முனைவர் ம.ஐஸ்மின் பியூலா, உதவிப்பேராசிரியை, தமிழ்த்துறை, ஹோலிகிராஸ் கல்லூரி (தன்னாட்சி), நாகர்கோவில்

முன்னுரை:

மனிதன் தோன்றிய காலத்திலிருந்தே புலம்பெயர்தல் நிகழ்ந்து கொண்டேயிருக்கிறது. ஆதிகால மனிதன் நாடோடியாக இடம் விட்டு இடம் பெயர்ந்து வாழ்ந்து வந்தான். இதனாலேயே இடம்பெயர்தல் புலம்பெயர்தல் என வழங்கப்பட்டது. கூட்டம் கூட்டமாகப் புலம்பெயர்ந்து வாழ்தலைக் கடைபிடித்த மனிதன் உணவிற்காகவும் நீருக்காகவும் புலம்பெயர்ந்து வாழ்ந்தான். விலங்குகளும், பறவைகளும் தனது இனப்பெருக்கத்திற்காகவும் வாழிடங்களுக்காகவும் இரைக்காகவும் புலம்பெயர்தல் உண்டு. இதற்கு இயற்கையே வழிமுறைகளை ஏற்படுத்திக்கொடுக்கும். இவற்றைப் போலவே மனிதனும் தற்கள் இருப்பிடங்களுக்கு திரும்பாமல் அங்கேயே தங்கி வாழ்வதுமுண்டு.

இலக்கியங்கள் கூட்டும் புலம்பெயர்தல்

சங்க காலத்திலும் புலம்பெயர்தல் அதிகமாக நிகழ்ந்துள்ளன. மொழிகள் பல பெருகிய பிற நாடுகளிலே தங்கள் நிலத்தை விட்டு சென்ற மக்கள் கூடி மகிழ்ந்திருக்கும் பட்டினம் என்பதை,

“மொழி பல பெருகிய பழி தீர் தேஎத்து

புலம்பெயர் மாக்கள் கலந்து இனிது உறையும்

முட்டா சிறப்பின் பட்டினம் பெறினும்”¹

(பட்டினப்பாலை 216 -218)

எடுத்துரைக்கிறது. இமயவரம்பன் நெடுஞ்சேரலாதனின் போரின் போது பகைநாட்டிலுள்ள மக்கள் வளம் மிக்க மருதநிலம் சீராக்க முடியாத அளவிற்குப் பாழ்பட்டு போயிருந்த தங்களது சொந்த இடங்களை விட்டுப் புலம்பெயர்ந்து சென்றனர் என்பதை புதிற்றுப்பத்துப் பாடல் பின்வருமாறு கூறுகிறது.

“இனம் தோடு அகல ஊர் உடன் எழுந்து

நிலம் கண் வாட நாஞ்சில் கடிந்து நீ

வாழ்தல் ஈயா வளன் அறு பைதிரம்

அன்ன ஆயின பழனம்”²

(புதிற்றுப்பத்துப் பாடல் 19 :16 -19)

புலம்பெயர்தலின் காலக்கட்டங்கள்

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- 2.காலனிய காலம்
- 3.கி.பி20-21 ஆம் நூற்றாண்டு

ஏன மூன்று காலக்கட்டங்கள் உள்ளன. இக்காலங்களில் பொருளாதார நெருக்கடிகள் மற்றும் போர் போன்றவற்றால் புலம்பெயர்ந்த மக்கள் பல்வேறு தேசங்களில்




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புலிகளை விரட்ட அல்ல, புகலிடம் தேட

முனைவர் வ.ஆற்றனி பிரகாஷ் பபிலா உதவிப் பேராசிரியர், தமிழ்த்துறை ஹோலி கிறாஸ் கல்லூரி (தன்னாட்சி) நாகர்கோவில்.

(முன்னுரை)

இலங்கை இனப்போரில் உயிரிழந்தோர் பலர். புகலிடம் தேடி புலம்பெயர்ந்தோர் சிலர். தன்பெண்டு தன் மக்களோடு கள்ளத்தோணிகளில் அயலகம் புறப்பட்டோரும் உள். ஆழ்கடலில் திசையறியா பயணத்தில் கரை காணாதோரும் உள். இலங்கை இனப்போரின் வரலாற்றுப்பக்கங்களின் கண்ணீர்க்கதைகளில் தற்காலிக முகாம்களில் தங்கவைக்கப்பட்டிருக்கும் தமிழினத்தின் வாழ்வியல் அகப்புலம்பலை ஆழமாக ஆய்வதே இக்கட்டுரையின் நோக்கம்.

புலம்பெயர்வு

புலம்பெயர்வு என்பதற்குப் பல பெயர்கள், பல வரையறைகள் இருப்பினும் புலப்பெயர்வின் ஆக்ககழிவு என்பது அகப்புலப்பெயர்வு என்பதாகும். நாடு விட்டு நாடு கடந்து அயலகம் சென்று சேர்ந்து வாழ்ந்து கொண்டிருக்கும் புலப்பெயர்வை முதல்நிலை புலப்பெயர்வாகக் கொள்ளமுடியும். ஆனால் முள்ளிவாய்க்காலில் போர்க்கேடயமாக நின்று தன் பெண்பிள்ளைகளை இழந்து சொந்தங்களை பந்தங்களை மரணிக்கவிட்டு எஞ்சிநிற்கும் அப்பாவித்தமிழர்கள் தன்னாட்டிற்குள்ளாகவே தன் எதிரிகளால் அமைக்கப்பட்ட முகாம்களில் தங்கி மூன்றுவேளை பசியாற்றிக் கொண்டிருக்கும் சுயநலமற்ற தமிழ் சொந்தங்களின் இழிநிலையான வாழ்வையே அகப்புலப்பெயர்வு என்று இக்கட்டுரை வரையறுக்கிறது.

ஈழக்கவிஞர் யாழினியின் **மரணமூறும் கனவுகள்** என்னும் கவிதைத்தொகுப்பில் அமைந்த கவிதையொன்றில்,

பிரியங்களில் மென்பரிசங்கள் மீது

கரும்போர்வை விரித்து

கேள்விகளும் குழப்பங்களும்

சயனித்துக் கொண்டிருக்கின்றன

புத்தனைப் போல

நானோ போதிமரக்கிளையேந்திய சங்கமித்தையாய்

அலைந்து கொண்டிருக்கிறேன்

ரணங்களைக் காவிக்கொண்டு

என்று முகம்வழி நுரைத்தெழும் சூன்யம் என்பது இன்றும் தொடரும் இலங்கைத் தமிழர்களின் கவலைகளை விவரிக்கின்றன. தண்ணீரில் தள்ளாடும் கலங்களில் கடல்கடந்து கண்ணீரில் தள்ளாடி தமிழினம் தன் இடம் விட்டு, தன் உயிர் காக்க அகதிகளாய் அயலிடம் கால் பதித்து அனாதைகளாய் நீர்க்கதியற்றுக் கிடப்பதை அகப்புலப்பெயர்வில் வாழும் தமிழினத்தின் சூன்யமாக வரும் வரிகளில்,

மாறிக்கொண்டிருக்கும் நிலப்பரப்புகள் வேரொடு பிடுங்கப்பட்டு

மாற்றான் தோட்டத்தில் நடப்பட்டதாய்


சற்றும் தகவமையா வாழ்வு


இதைவிட வடிவானதென தோட்டம்





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Journal Details	
Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
Publisher	The Asiatic Society of Mumbai
ISSN	0972-0766
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	General Arts and Humanities
UGC-CARE coverage years	from June-2019 to Present



JOURNAL of
 THE ASIATIC SOCIETY OF MUMBAI













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About Journal



Asiatic Society of Mumbai is a pride of this city. The Society has one of the biggest treasures of different archives. One of such archives is its publication – Society’s Journal. The Journal published its first issue in 1841. In 2016, the enthusiastic editors, who work on honorary basis for the Society, continue to follow the great tradition of their predecessors. It’s a pride that Bharatratna MM Dr. PV Kane was once the editor of Society’s Journal.

Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

- **Name of the Journal** : Journal of the Asiatic Society of Mumbai.
- **ISSN Number** : 0972-0766.
- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
- **City** : Town Hall, Mumbai - 400 023.
- **State** : Maharashtra.
- **Country** : India.

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வி. ஜீவகுமாரின் சிறுகதைத் தொகுப்புகளில் புலம்பெயர் சிக்கல்கள்

முனைவர் செ. சனிதா, உதவிப் பேராசிரியை, தமிழ்த்துறை, ஹோலிகிராஸ் கல்லூரி(தன்னாட்சி), நாகர்கோவில்.

ஆய்வுச்சுருக்கம்:

புலம்பெயர் இலக்கியமானது ஒரு நாட்டில் வாழ்கின்ற மக்கள் தங்கள் நாட்டில் காணப்படுகின்ற சாதி, மதம், மொழி, இனம் முதலியவற்றால் ஏற்படும் கலகம், உள்நாட்டுப்போர், பஞ்சம், பூகம்பம், கனாமி முதலிய இயற்கைப் பேரிடர் போன்ற காரணங்களால் தம் சொந்த மண்ணில் வாழ இயலாது உடமைகள், உறவுகளை இழந்து மொழி, கலை, பண்பாடு, இயற்கை அமைப்பு எனப் பலவற்றாலும் அந்நியப்பட்டுக்கின்ற சூழலில் படைக்கப்படுகின்ற இலக்கியமாகும். இவ்வாய்வுக்கட்டுரையில் வி.ஜீவகுமாரின் சிறுகதைத் தொகுப்புகளில் 'யாவும் கற்பனை அல்ல' 'மக்கள் மக்களால் மக்களுக்காக' என்னும் இரு நூலிலிருந்து இலங்கை மண்ணிலிருந்து புலம்பெயர்ந்து வாழ்கின்ற ஈழ தமிழ் மக்களின் நிலை குறித்து ஆய்வுச்செய்யப்பட்டுள்ளன.

முன்னுரை :-

வி. ஜீவகுமாரின் 'மக்கள் மக்களால் மக்களுக்காக' என்னும் நூல்தொகுப்பில் பத்துச் சிறுகதைகளும் இரண்டு குறுநாவல்களும் அடங்கியுள்ளன. சிறுகதைகளில் சில வன்னியின் அவலங்கள் பற்றி பேசுகின்றன. வேறு சில புலம்பெயர்ந்து வாழும் தமிழ் ஈழர்களின் அவலங்களை கூறுகின்றன. புலம்பெயர்ந்து புகலிடம் தேடிப் பயணிக்கிற ஈழத்தமிழர்கள் தம் பாதையிலும் மற்றும் புகலிடத்திலும் படும் துயரம் என்பது அளவிட முடியாதது. பனங்கிழங்குக் கீற்றுடன் வரும் பெரிய வீட்டுக்காரியும், இயக்கத்துக்கு சென்ற காதலியின் கதையான 'மெயில்லோஞ்சும்' காதல் நினைவுகள் போன்று கோலங்காட்டினாலும் அவை யாழ்ப்பாண மண்ணின் நம்பிக்கைகளை சொல்லும் விதத்தில் அமைந்துள்ளன. 'வேட்டையும்' 'நானும் ஒரு அகதியாக' என்னும் கதையிலே ஆசிரியர் ஓர் கதைச்சொல்லியாக வந்து புலம்பெயர் மக்களின் அவலங்களை காட்சிப்படுத்துகிறார். இப்படைப்புகள் பெண்ணின் மாறுபட்ட வாழ்வு குறித்தும், புலம்பெயர் பயணத்தின் அதீதமான சிக்கல் குறித்தும், புகலிடத்து வாழ்வியல் துயரம் குறித்ததுமான செய்திகளை அளிக்கின்றன. மேலும் ஆசிரியர் வி. ஜீவகுமாரன் தனது "யாவும் கற்பனை அல்ல" என்ற நூலில் தான் பிறந்த இலங்கை மண்மீதான உறவையும் தனது டென்மார்க் வாழ்வியல் அனுபவத்தில் புலம் பெயர்ந்தோர் அனுபவிக்கும் வாழ்வியல் சிக்கல்களையும் நனவோடை யுத்தியோடு, யதார்த்தத்தோடு பதிவு செய்துள்ளார். இந்நூல் இரண்டு பாகங்களைக் கொண்டுள்ளது.. முதல் பாகத்தில் 13 சிறுகதைகளும் 7 கவிதைகளும் இடம் பெற்றுள்ளன. இரண்டாம் பாகம் முழுவதும் கவிதைகள் மட்டுமே இடம் பிடித்துள்ளன. இக்கட்டுரையில் ஆசிரியரின் சிறுகதைகளில் வெளிப்படும் புலம் பெயர்வு சிக்கல்கள் விளக்கப்பட்டுள்ளன.

புலம்பெயர்வு:

இந்தியப் புலம்பெயர்வு, பாலஸ்தீனப் போர் காரணமாக புலம்பெயர்வு, 1-ம், 2-ம் உலகப் போர்களினால் ஏற்பட்ட புலம்பெயர்வுகள் எல்லாம் ஒரு மனித குழுமத்தை புதியதொரு இடத்திற்குக் குடிபெயர வைத்துவிட்டன. இதே நிலைமை ஈழத்துத் தமிழ் மக்களுக்கும் நேர்ந்தமை காலத்தின் கட்டாயமாகி விட்டது. எண்பதுகளில் தொழில் சார்படிப்பு, வேலைவாய்ப்பு தேடிச் சென்றனர். எனவே அவர்கள் வாழ்வில் அரசியல் தாக்கம் இருக்கவில்லை. ஆனால் எண்பதுக்கு பின் புலம்பெயர்வு அரசியல் சார்ந்த ஒன்றாக அமைந்தது. எனவே வாழ்வு தேடிச் சென்றவர்கள் பல்வேறு தொழில்களைச் செய்ய வேண்டியிருந்தது. அவர்களது வாழ்வு "அகதி" என்ற நிலைக்கு தள்ளப்பட்டு மன அழுத்தங்கள், சொந்த மண்ணை விட்டு வந்தமையால் ஏற்பட்ட பிரிவு துயர், வேலை பார்க்கும் தளங்களில் இன, நிற, மொழி, சாதி, பேதங்கள், பாதுகாப்பின்மை என பல்வேறு சிக்கல்களில் சிக்கல்கள் தவிக்கும் அவலம். இந்நிலையில் புலம் பெயர்ந்து வாழும் எழுத்தாளர்களின் படைப்புகளிலும் புலம் பெயர்வு பாடுபொருளாகியது.

உறவுகளால் ஏற்படும் சிக்கல்:-

தான் பிறந்த மண்ணை மறந்து பிற நாடுகளுக்கு பிழைப்பிற்காக, தம் வளத்தைப் பெருக்கி கொள்வதற்காக குடும்பத்தோடு செல்லும் மக்கள் பலர். இவர்கள் வெளிநாடுகளில் சகல சுகபோகத்தோடு வாழ்கிறார்கள் என்று எண்ணம் அவர்களது பிற உறவுகளிடம் காணப்படுகின்றது. இதனால்



≡ UGC-CARE List

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Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
Publisher	The Asiatic Society of Mumbai
ISSN	0972-0766
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UGC-CARE coverage years	from June-2019 to Present

About Journal

Asiatic Society of Mumbai is a pride of this city. The Society has one of the biggest treasures of different archives. One of such archives is its publication – Society’s Journal. The Journal published its first issue in 1841. In 2016, the enthusiastic editors, who work on honorary basis for the Society, continue to follow the great tradition of their predecessors. It’s a pride that Bharatratna MM Dr. PV Kane was once the editor of Society’s Journal.

Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

- **Name of the Journal** : Journal of the Asiatic Society of Mumbai.
- **ISSN Number** : 0972-0766.
- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
- **City** : Town Hall, Mumbai - 400 023.
- **State** : Maharashtra.
- **Country** : India.

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பழந்தமிழரின் பண்டமாற்றமும் நாணயமும்

முனைவர் மா. தே. அருண் மொழி நங்கை, ஹோலி கிறாஸ் கல்லூரி, நாகர்கோயில்.

ஆய்வுச் சுருக்கம்

பழந்தமிழரின் பண்டமாற்றமும் நாணயமும் அவர்களின் வாழ்வை செழிக்க செய்தது. உலகம் முழுவதும் சென்று வணிகம் செய்த தமிழர்கள் தமிழர் நாகரிகம் கட்டடக்கலை போன்றவற்றிலும் சிறந்து விளங்கினர். அதைப்போன்று வாணிகம் செய்யும் முறையிலும் நாகரிகத்தை ஏற்படுத்தினர். முதலில் வாணிகம் செய்ய ஆரம்பித்த தமிழர்கள் தங்களுக்கு பண்டமாற்று முறையில் பொருட்களை மாற்றிக் கொண்டார்கள். எங்களிடம் கிடைக்கும் பொருட்களை பிறருக்கு கொடுத்து தங்களுக்கு வேண்டிய பொருட்களை பெற்றுக் கொண்டார்கள். இவ்வாறு வாணிகம் செய்து வந்த தமிழர்கள் பின்பு நாணயத்தை கண்டுபிடித்து நாணயம் வழியாக பொருட்களை விற்பனை செய்தார்கள். விலை உயர்ந்த பொருட்களை காசு கொடுத்து வாங்கும் பழக்கத்தை ஏற்படுத்திக் கொண்டார்கள். தங்களுக்கு கிடைக்காத பொருட்களை பிறரிடம் பணம் கொடுத்து பெற்ற பின் அதை மீண்டும் மறு விலைக்கு விற்கும் பழக்கத்தையும் ஏற்படுத்திக் கொண்டார்கள். இக்கட்டுரையில் பழந்தமிழர்கள் பண்டமாற்று முறையில் எவ்வாறு பொருட்களை பெற்றனர்? நாணயத்தின் மூலம் எவ்வாறு பொருட்களை பெற்றனர்? வெளிநாடுகளில் பயன்படுத்தப்படும் பணத்தின் மூலமாக எவ்வாறு பொருட்களை பெற்றனர்? என்ற அடிப்படையில் இந்த ஆய்வுக்கட்டுரையானது அமைந்துள்ளது.

முன்னுரை:

பழந்தமிழரின் அன்றாடத் தேவையான அரிசி, பருப்பு, உப்பு, பால், தயிர், மீன், இறைச்சி முதலான பொருள்களைப் பணம் கொடுத்து வாங்காமல் பண்ட மாற்றம் செய்தனர். பண்டமாற்று என்பது ஒரு பொருளைக் கொடுத்து அதற்கு ஈடாக இன்னொரு பொருளைக் வாங்குவது ஆகும். தமிழ் நாட்டில் மட்டுமல்ல உலகத்திலுள்ள எல்லா நாடுகளிலும் பழங்காலத்தில் பண்ட மாற்று தான் நடந்து வந்துள்ளது. மற்ற நாடுகளில் இருந்தது போலவே தமிழகத்திலும் பழங்காலத்தில் பண்டமாற்று முறை இருந்தது. சங்க இலக்கியங்கள் பண்டமாற்று முறைக்கு உதாரணமாக அமைகின்றன.




The screenshot shows the UGC-CARE List website interface. On the left is a dark sidebar with the Savitribai Phule Pune University logo and navigation links for Home, UGC, and Search. The main content area is titled 'UGC-CARE List' and displays search results for 'Puthiya Avaiyam'. A search bar is visible at the top right of the results section. Below it, a table lists the journal details.

Sr.No.	Journal Title	Publisher	ISSN	E-ISSN	UGC-CARE coverage years	Details
1	Puthiya Avaiyam	Sacred Heart Research Publications	2456-821X	NA	from January-2023 to July-2023	Discontinued from July 2023

Below the table, it indicates 'Showing 1 to 1 of 1 entries' and includes navigation buttons for 'Previous', '1', and 'Next'.

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The journal cover features a vibrant pink and purple background. At the top left is a small icon of a hand holding a jar, labeled 'Sacred Heart Research Publication'. The title 'புதிய அவையம்' is written in large yellow Tamil characters, with 'UGC CARE LIST' to its right. Below this, the English title 'PUTHIYA AVAIYAM' is displayed in large, outlined pink letters. The ISSN number 'ISSN : 2456-821X' is centered below the title. A yellow banner across the middle reads 'Peer-Reviewed UGC Care Listed Journal (2023 onwards)'. The central graphic is a circular collage of academic icons: a blue graduation cap, a stack of books, a blue pen writing on a notepad, a red and white atomic symbol, a globe, and laboratory glassware. In the center of this collage is the Sacred Heart College crest, which includes a shield with a cross, a book, and the motto 'PROF. QUANTUM ERUDITIO. PARCENS. FIDELIS.' Below the crest is a banner that says 'SACRED HEART COLLEGE'. At the bottom of the cover, the text 'SPECIAL ISSUE - JUNE 2023 (Volume : 07, Issue : 02)' is written in bold yellow letters.



புதிய அவையம்


PUTHIYA AVAIYAM

A Peer-reviewed Journal & Bilingual Journal for Arts and Humanities

Vol:07, Issue: 02 கல்வியியல் ஆய்வுக் கட்டுரைகள் 2023 - வெளியீடு 2023

June-2023

ज्ञान - विज्ञानं विमुक्तये
UGC Approved Journals
ISSN: 2456-821X



SACRED HEART RESEARCH PUBLICATIONS
June-2023

அழகியல் நோக்கில் ஐங்குறுநூறு (வேட்கைப்பத்து)

முனைவர் அ. டெல்பின்,
உதவிய பேராசிரியர்,
திருச்சிலுவை கல்லூரி, நாகர்கோவில்.

ஆய்வுச் சுருக்கம்

சங்க காலம் முதல் இக்காலம் வரை கவிஞர், புலவர், அரசர், எழுத்தாளர் போன்றோர் தன் படைப்புகளில் இயற்கை, மனிதன், விலங்குகள், போன்றவற்றை அழகுபட எழுதியுள்ளனர். நாம் காணும் ஒவ்வொரு பொருளையும் நம் கண்முன் கொண்டு வந்து நிறுத்துவதற்காக அவற்றை அழகுபட வருணித்துக் கூறியுள்ளனர். கவிதை, சிறுகதை, புதினம் போன்றவற்றையும் அழகுணர்ச்சியுடன் கவிஞர்கள் படைத்துள்ளனர். சங்க இலக்கிய எட்டுத்தொகையில் அகம், புறம், அகப்புறம் என்று மூன்று வகையாத் தொகுக்கப்பட்டுள்ளது. அவற்றில் மூன்றாவதாகத் தொகுக்கப்பட்டுள்ள ஐங்குறுநூற்றில் ஐந்து திணைகளுக்கும் பத்து பத்து பாடல்கள் என ஐந்நூறு பாடல்கள் அமைந்துள்ளது. இவற்றில் தொல்காப்பிய அடிப்படையில் இல்லாமல் மருதத்திணையை முதன்மையாக வைத்து போற்றக் கூடிய சிறந்த நூலாகும். அதேபோல் ஐங்குறுநூற்றின் கடவுள் வாழ்த்தில் சிவபெருமான் உமாதேவியைப் பாதியாகக் கொண்டது போல் தலைவனும் தலைவியும் ஒன்றாக இருக்க வேண்டும் என்று எடுத்துரைப்பது இதன் சிறப்பாகும். எனவே சங்க இலக்கிய தொகை இலக்கியங்களில் ஐங்குறுநூற்றின் அழகியல் இக்கட்டுரையின் வாயிலாக அறியலாம்.


முன்னுரை

வேட்கைப்பத்து என்பதற்கு தலைவன் மீது தலைவி கொண்டுள்ள விருப்பத்தை களவு மற்றும் கற்பு ஆகிய இரு நிலைகளிலும் எவ்விதம் வெளிப்படுத்துகிறாள் என்பதைத் தோழி தலைவனிடம் எடுத்துக்கூறுவதாக இப்பகுதி அமைந்துள்ளது. மருதத்திணையின் உரிப்பொருள் ஊடலும் ஊடல் நிமித்தமும் ஆகும். நிலையான வாழ்வைப் பெற்ற நிலம் மருதம். ஓய்வு நேரம் மிகுதியாக இருந்த காரணத்தினால் இந்நிலத்தில் பரத்தையர் பிரிவு என்ற ஒன்று இருந்துள்ளது. தலைவன் தலைவியை விட்டுப் பரத்தையிடம் தங்கி விட்டுத் திரும்புகின்றான். அவனிடம் தலைவி ஊடல் கொள்வாள். அவ்ஊடலை சரிசெய்பவளாகத் தோழி செயல் படுவாள். அதனை நேரடியாகக் கூறாமல் மறைமுகமாகவும் சில பொழுது நேரடியாகவும் எடுத்துக் கூறுபவளாகத் தோழி இருந்துள்ளாள்.

அழகியல்

அழகியல் என்ற சொல்லுக்கு முருகியல், அழகைப் பற்றிய கொள்கை என்று பொருள் தருகிறது மெய்யப்பன் தமிழ் அகராதி.

“படைப்பிலக்கியத்தின் சிறப்பியல்புகள் பல. அவற்றுள் இரண்டினை, “முருகியல் விளக்கம்” முதன்மையாகக் கொண்டு அமைகிறது. கற்பனை நயமும் எடுத்துரைக்கும் முறையில் கலையழகும் இணைந்து இயங்குகின்ற பொழுது படைப்பிலக்கியம் கவர்ச்சி மிகக் கலையழகைப் பெறுகிறது. இதனோடு அழகான பொருள் வற்றாத “இன்பவழற்று” எனும் சுருத்திற்கேற்ப படிப்பவரை மகிழ்விப்பதாகவும் செய்கிறது. இந்த இருவகை இயல்புகள்



SAVITRIBAI PHULE PUNE UNIVERSITY

☰ UGC-CARE List

UGC-CARE List

You searched for "Pudhupanal". Total Journals : 1

Search:

Sr.No.	Journal Title	Publisher	ISSN	E-ISSN	UGC-CARE coverage years	Details
1	Pudhupanal (print only)	R. Ravichandran	2278-1641	NA	from January-2023 to October- 2023	Discontinued from Oct. 2023

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ISSN 2278 - 1641
UGC Care Listed Journal

புதுப்புனல்

கலை - இலக்கிய மாத இதழ்


மலர் : 14
இதழ் : 7
ரூ. 150/-
ஜூலை 2023

மரம் வளர்போம்! மண்வளம் காப்போம்!



**கோவை ஞானியின் மூன்றாம் ஆண்டு
நினைவு நாளை நினைவு கூறுவதும்.**

**சுற்றுச்சூழலை பாதுகாப்பதில் நாம் காட்டும்
அக்கறை நம்மை வழி நடத்தும் நம்மாழ்வார்,
நெல்லெயராம் போன்றோரை போற்றுவதும்
கீழை சிந்தனையில் தெளிவு பெற செய்த
எஸ்.என்.நாகராஜனுக்கு நாம் தரும்
மரியாதையும் தான் நம்மை திசை மாற்றாமல்
வாழ வைக்கிறது.**



சங்க இலக்கியத்தில் உணவு வகைகள்

முனைவர்

சி.ஆன்சிமோன்

தமிழ்நாடு தலைவர் (கயநிதி)
ஹோலி கிராஸ் கல்லூரி (தன்னாட்சி)
நாகர்கோவில்

முன்னுரை

உயிர் வாழ இன்றியமையாத பொருள் உணவு ஆகும். அனைத்து உயிரினங்களும் உயிர்வாழ உணவையே சார்ந்திருக்கின்றன. ஆகவே அவற்றின் செயல்பாடுகள் உணவு தேடுவதையே அடிப்படையாக கொண்டுள்ளன. பண்டைத் தமிழர்கள் கவை மிக்க உணவுப் பொருள்களை சமைப்பதில் தேர்ந்திருந்தனர் என்பதைச் சங்க இலக்கியங்களின் வழி அறிய முடிகிறது. ஆவரவர் வாழ்ந்த நிலத்திற்கேற்ப உணவு வகைகளும் உணவு முறைகளும் வேறுபட்டு இருந்தன. அவரவரின் பொருளாதார நிலையை ஒட்டியும் உணவின் தரம் வேறுபட்டிருந்தது. உண்ணும் உணவினை பல்வேறு பகுதிகளாக பிரித்துக் கவைபடச் சமைத்து உண்பதில் அறிவையும் உணர்வையும் தமிழர்கள் ஒருசேர பயன்படுத்தியுள்ளனர்.

உணவு வகைகள்

இயற்கையாக அமைந்த நிலப்பாடுகளில் ஆய்காங்கு கிடைக்கப்பெற்ற பொருள்களையும் தங்கள் முயற்சியால் தட்பவெப்பநிலைக்கேற்ப உற்பத்தி செய்த பொருள்களையும் கொண்டு பண்டைத் தமிழர்கள் தங்கள் உணவு வகைகளைத் தயாரித்துக் கொண்டனர். உணவு பொருள்களை நல்ல முறையில் பக்குவம் செய்து கவையேற்றி உண்டும் மகிழ்ந்திருக்கிறார்கள். இத்தகைய உணவு வகைகள் வருமாறு. 1. மரக்கறி உணவு 2. கனி உணவு 3. இறைச்சி உணவு 4. அரிசி உணவு 5. பிற உணவு 6. பருகு நீர் 7. மது என்பனவாகும்.

மரக்கறி உணவு

சங்ககால தமிழர்கள் காய், கிழங்கு, கீரை, பருப்பு போன்ற தாவரங்களிலிருந்து கிடைக்கக் கூடிய உணவுப் பொருள்களை உண்டு வாழ்ந்திருக்கின்றனர். பண்டையத் தமிழர்கள் நண்டுக் கறியுடன் பிரக்கங்காயை இணைத்து உண்டுள்ளனர் என்ற செய்தியை சிறுபாணாற்றுப்படை கூறுகிறது. பொதுவாக மரக்கறி உணவோடு இறைச்சி உணவைச் சேர்த்து உண்ணும் வழக்கம் இல்லை. ஆனால் மருத நிலத்து மக்கள் பிரக்கங்காயோடு நண்டுக் கறியையும் இணைத்து உண்ட செய்த புதுமையானதாகும். இப்புதிய உணவுப் பழக்கம் பற்றி சிறுபாணாற்றுப் படையின் பின்வரும் பாடலடி குறிப்பிடுகிறது.

கவைத்தா ளலவன் கலவையொரு பெறுகுயீர்
(சிறுபாண. 195)

இதற்கு கவைத்து காலினையுடைய நண்டு பிரக்கங்காயும் கலந்த கலப்புடனே பெறுகுயீர் என்பது நச்சினார்க்கினியர் உரை வருத்துள்ளார். இதன் மூலம் பண்டைத் தமிழர் நண்டுக்கறியுடன் பிரக்கங்காயை நன்மையும் என்ற செய்தியைத் தெரிந்து கொள்ள முடிகிறது. நண்டையும் கலந்து செய்யும் சமையல் பிரக்கங்காயையும், நண்டையும் கலந்து செய்யும் சமையல் குறிப்பினை நச்சினார்க்கினியர் உரையின் வாயிலாக அறிய முடிகின்றது. மேலும் மாதுளங்காய், மாங்காய், வெள்ளரிக்காய் போன்ற பல காய்களையும் உண்டு செய்த சங்க இலக்கியங்களின் இடம் பெற்றுள்ளது.

கனி உணவு

சங்க இலக்கியங்களில் ஆசினிப்பழம், களம்பழ காரைப்பழம், துபரிப்பழம், நாவற்பழம், நெல்லிக்காய், பலாப்பழம் போன்ற பழங்களைச் சங்ககால மக்கள் பெரிதும் விரும்பியுண்டனர் என்ற செய்தியை அறிய முடிகிறது. அன்றைய மன்னரின் நாட்டிலுள்ள மக்கள் மணல் குவிக்கப்பட்ட மணல் மேட்டில் ஏறி நின்று நாவற்பழம் உண்டனர் என்ற செய்தியை புறநானூற்றுப் பாடலடி நகுல்கின்றன.

‘கருங்கனி நாவிலிருந்து கொய் துண்ணும்
பெரும்பெய ராதி பிணங்களிற்குட நாட்
டெயினீ.....’ (புறம் 177, 11-3)

ஒளவையார் பாடிய புறப்பாடல் வழி அறியலாம் உண்டவரை நீண்டநாள் வாழவைக்கும் ஆற்றல் கொண்டது நெல்லிக்கனி என்ற செய்தியை

“சிறியிலை நெல்லித் தீங்கனி குறியா
தாதனின்னகைத் தடக்கிச்
சாதனீங்க வெழக்கீத் தளையே” (புறம் 91, 9-11)

இறைச்சி உணவு

சங்க கால மக்கள் புலால் உணவை விரும்பியுண்டனர் போகும் வீரமும் பேணுவதற்கு இப்புலால் உணவை உண்கமளிக்கும் உணவு ஆகும்.

மான் இறைச்சி

கோப்பெருநதின்னி தீக்கடைக்கோலால் தீயை உண்டாக்கி அதில் கொழுத்த மானின் இறைச்சியை

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Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
Publisher	The Asiatic Society of Mumbai
ISSN	0972-0766
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	General Arts and Humanities
UGC-CARE coverage years	from June-2019 to Present



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About Journal



Asiatic Society of Mumbai is a pride of this city. The Society has one of the biggest treasures of different archives. One of such archives is its publication – Society’s Journal. The Journal published its first issue in 1841. In 2016, the enthusiastic editors, who work on honorary basis for the Society, continue to follow the great tradition of their predecessors. It’s a pride that Bharatratna MM Dr. PV Kane was once the editor of Society’s Journal.

Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

- **Name of the Journal** : Journal of the Asiatic Society of Mumbai.
- **ISSN Number** : 0972-0766.
- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
- **City** : Town Hall, Mumbai - 400 023.
- **State** : Maharashtra.
- **Country** : India.

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தீபச்செல்வன் கவிதைகளில் ஈழத்தமிழர் அவலம்

முனைவர் சா.டெய்சிபாய், உதவிப் பேராசிரியர், தமிழ்த்துறை (சுயநிதி) ஹோலிகிறாஸ் கல்லூரி (தன்னாட்சி) நாகர்கோவில்.

முன்னுரை

“இடிப்பாரை இல்லாத எயரா மன்னன்

கெடுப்பார் இலானுங் கெடும்” (குறள் 448)

கடிந்து அறிவரைக் கூறும் பெரியவர்களின் துணை இல்லாத காவலற்ற அரசன், தன்னைக் கெடுக்கும் பகைவர் என்றும் இல்லாவிட்டாலும் கெடுவான். ஆட்சி அதிகாரத்தில் ஆணவம் கொண்டு தமிழ் இனத்தினை இனப்படுகொலை செய்து, தன் செய்கையாலே அழிந்து போன ஒரு நாட்டின் அதிபருக்கு இக்குறள் நன்கு பொருந்தும். காலங்காலமாகத் தொடரும் இலங்கை இனப்பிரச்சினை நான்கு கட்டப் போர்களைத் தாண்டி, பல ஆயிரக்கணக்கான உயிர்களைக் காவு கொண்டுள்ளது. திக்கற்று, வாழ வழி தெரியாமல் உயிரைக் காக்கப் புலம்பெயர்ந்த தமிழர்களின் வாழ்க்கை ஒரு போர்க்களமே.

தீபச்செல்வன் கவிதைகள்

கவிதைக்கு எப்போழுதுமே தனித்துவமான அழகியல் உண்டு. படைப்பாளிக்கு அவனது வாழ்வும், குழலும், தாக்கமுமே பாடுபொருளாகும். கவிஞர் தீபச்செல்வன் இலங்கையின் வடபகுதியான கிளிநொச்சியில் வாழ்கிறார். யாழ்ப்பாண பல்கலைக்கழகத் தமிழ்த்துறையில் பட்டம் பெற்று யாழ்ப்பல்கலைக்கழக ஊடகப் பிரிவில் விரிவுரையாளராகப் பணியாற்றியுள்ளார். இவரது கவிதைகளை வாசிக்கும் பொழுது அந்தப் பாடுபொருள் வாசகனிடையே ஒரு தாக்கத்தை ஏற்படுத்தும். அதாவது மகிழ்ச்சி, நயரம் போன்ற உணர்ச்சிகளை ஒரு நபரிடையே தோற்றுவிக்கும். இவ்வாறான ஒரு துயரஉணர்வை கவிஞரின் “கீறல்பட்ட முகங்கள்” என்னும் கவிதைகளில் காணலாம். புற்று நோய் போல் படர்ந்து செல்லும் யுத்தத்தின் குரூர முகங்களை வட்டமிட்டுக் காட்டுகின்றன இவரது கவிதைகள். மேலும் இவர் ‘கிளிநொச்சி’, ‘பதுங்கு குழியில் பிறந்த குழந்தை’, ‘நீயும் நமது குழந்தைகளும்’, ‘முறிப்புக்கிராமம்’ என பதினைந்துக்கும் மேற்பட்டப் புத்தகங்களை எழுதியிருக்கிறார்.

யாழ் நகரம்

ஈழமண்ணின் தவப்புதல்வர்களைச் சாவு எனும் அலகை முழுவதுமாக விழுங்கி விடுமோ என்று நினைக்கும் சூழலில் தான் தீபச்செல்வனின் கவிதைத் தொகுப்பு வெளிவந்தது. ஆக்கிரமிக்கப்பட்ட பிரதேசத்தின் பாலை நிலமும், அங்கு மனித உயிர்கள் ஈனப் பிறவிகளாகப் புல்லென கிள்ளி எறியப்படுவதையும் ‘யாழ்நகரம்’ என்ற கவிதை பேசுகின்றது.

“நங்கள் சாப்பிடும் கொத்து ரொட்டி

மேசையில் பரவியிருக்க



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ISSN 2278-1641

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புதுப்புனல்
உலக இலக்கிய மாத இதழ்

மலர் : 14 இதழ் : 10 ரூ. 150/- அக்டோபர் 2023




பின் நவீனத்துவ எழுத்துக்களை
தமிழுக்கு அறிமுகப்படுத்தி தமிழ் இலக்கியத்தை
செழுமையாக்கிய எழுத்தாளர்களில்
ஒருவரான எம்.ஜி.சுரேஷ் அவர்களின்
ஆறாம் ஆண்டு நனைவு நாளை (அக்டோபர் 2)
நனைவு கூர்வோம்



குழந்தைப் பாடல்களின் வகைமைகள்

முனைவர் M.மேயல் எடல் குயின்

உதயப் பொள்ளாடி,
தமிழ்நாடு.
தேவாலிமீதாள் கல்லூரி (தன்னாட்சி),
நாகர்கோவில்.

மூன்றுரை

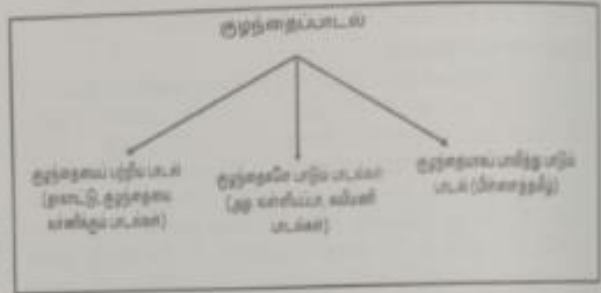
அரும்பிவிருந்து நறுமணமுடன் இசைக்கும் உடைய மலர் மயர்வது போன்று, வாழ்வின்மீதும் நல்ல பல பலகையான எண்ணங்களோடு முகிழ்ப்பித இயக்கியதாகும். வாழ்வின் தோற்றமீற்ற அடிப்படை உணர்வுகள் மொழிவடிவம் பெறும் பொழுதே அது இயக்கியமாதிறது. அடிப்படை உணர்வுகள் என்று சொல்லும் பொழுது விழுமிய உணர்வுகளாகவும் கற்பா உணர்வுகளைக் கொடுத்த கொஞ்சுவனவாகவும் விளங்கவேண்டும். இவ்வாறு விழுமிய உணர்வுகளின் அடிப்படையில் முகிழ்ச்சிமீற்ற இயக்கியங்களின் குழந்தை இயக்கியங்கள் ஒரு உணர்வுப் படைப்பாகும். குழந்தை இயக்கியங்களின் இடம்பெறும் குழந்தைப் பாடல்கள் குழந்தைமீற்தன்மை, இயல்பு, அழகு, செவ்வன் முகிழ்ச்சிமீறும் எனப் பெரும் பகுதிகளை எடுத்துவிடப்படுகின்றன. இக்குழந்தை இயக்கியங்கள் தனிமொரு துறையாக ஏற்றம் பெற்றுத் திகழ்கின்றன. இத்தகைய குழந்தைப் பாடல்களைப் பல்வேறு வகைமைகளுக்குள் அடக்கலாம். இவ்வகைமைகளை விளக்குவதே இக்கட்டுரையின் கருவியாக அமைகிறது.

ஆய்வு வகுப்புகள்

ஆய்வுக் கட்டுரை விளக்கவியல் முறைமைச் சார்ந்து அமைக்கப்பட்டுள்ளது.

குழந்தைப் பாடல்களின் வகைமைகள்

தமிழின் குழந்தைகளைப் பற்றிய நூல்களும் உண்மை. குழந்தைகள் படிப்பதற்குரிய நூல்களும் உண்மை என்று டாக்டர் மு.வ. அவர்கள் குழந்தை நூல்களைப் பற்றியும், குழந்தைகளைப் பற்றிய நூல்களைப் பற்றியும் கூறுகிறார். குழந்தை இயக்கியம் என்ற துறை தந்தையின்மீற்தோற்றிய ஒன்று. இதுவரை குழந்தை பற்றிய இயக்கியம் உட்பட தனி குழந்தைகளுக்கு எனத் தனி இயக்கியம் இல்லை என்று அ.ச.நா.நா.நா.பத்தம் கூறுகிறார். ஆனால் இதற்கு எந்த ஆதாரத்தையும் அ.ச.நா.நா.நா.பத்தம் குறிப்பிடவில்லை. குழந்தைப்பாடல் வேறு, குழந்தைப் பற்றிய பாடல் வேறு என்று கட்டவே இவருடைய மேற்கோள் எடுத்துரைப்புகளே.




குழந்தைகளே பாடும் பாடல்

குழந்தைப்பாடலின் பாடற்பொருள் குழந்தைகளுக்குத் தெரிந்த பொருளாக இருக்கும். குழந்தைகள் மனநிலை மீற்த கொள்ளக்கூடிய எளிய தடையில் எழுதப்பட்டிருக்கும். குழந்தைகளின் மனநிலைமீற்தபடிமும் வயநிறமீற்தபடிமும் பாடல்கள் அமைத்திருக்கும். பாடலின் குழந்தைமீற்த உணர்வுகளும் எந்த நயம் அமைத்திருக்கும். குழந்தைகள் தாமே பாடி மகிழ்வனவாக இருக்கும். சிவ்வப் பாடலாக இவற்று மூன்று திட்டங்களில் பாடி முடிக்கக்கூடியனவாக இருக்கும். குழந்தைகள் மேட்டு அறுபயிக்கும் முறையில் அமைத்திருக்கும். ஒரே குழந்தை மேட்டாயே திருப்பிச் சொல்லும்படி அப்பாடல் அமைத்திருக்கும். ஆன் குழந்தைக்கென்றும் பெண் குழந்தைக்கென்றும் தனித்தனிவான குழந்தைப் பாடல் இல்லை. இருபாலருக்கும், பொதுவாகவே இருக்கும். இவை அன் குழந்தைப் பாடல்கள். குழந்தைகள் தாமே பாடி மகிழ்வனவாகவும், குழந்தைகள் விருப்பம் பெருக்கனை கூட்டுகளை, வினைவாட்டுக்களைப் பற்றியனவாகவும் குழந்தைகளின் வயதுக்கும் அறிவுக்கும் ஏற்ற சொற்களையும் எடுத்துக்கூறையும் எத்தக்களையும் பெற்றனவாகவும் அமைத்துள்ளனவற்று பூவண்ணம் விளக்கத்தகுறார்.

குழந்தைகளே பாடும் பாடலே உண்மையான குழந்தைப்பாடலாகும். இப்பாடல் வகைமைக்கு அற வண்ணப்பா அவர்களின் பாடலும் கவிமணி தேவிச விதாயம் மீற்த அவர்களின் பாடலும் தெரிந்த எடுத்துக்கூட்டுகளாகும். கவிமணியும், அற வண்ணப்பாவுமே குழந்தைக் கவிஞர்கள் மூலமாக இருக்கின்றன. புதுமையை வரவிதந்தனர். இவர்கள்


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Journal Details	
Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
Publisher	The Asiatic Society of Mumbai
ISSN	0972-0766
E-ISSN	NA
Discipline	Arts and Humanities
Subject	Arts and Humanities (all)
Focus Subject	General Arts and Humanities
UGC-CARE coverage years	from June-2019 to Present



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Asiatic Society of Mumbai is a pride of this city. The Society has one of the biggest treasures of different archives. One of such archives is its publication – Society’s Journal. The Journal published its first issue in 1841. In 2016, the enthusiastic editors, who work on honorary basis for the Society, continue to follow the great tradition of their predecessors. It’s a pride that Bharatratna MM Dr. PV Kane was once the editor of Society’s Journal.

Since 1841, the Society has seen many ups and downs. It even changed its name from The Royal Asiatic Society (Bombay Branch) to Asiatic Society of Bombay, and then to Asiatic Society of Mumbai. The Journal, however, stuck to its high standards which attracted hundreds of researchers to the Society. This treasure of Journal issues in the last 172 years has always been an important source of references for the students, researchers and readers. They used to flip through the Journal’s paper pages for finding the references.

- **Name of the Journal** : Journal of the Asiatic Society of Mumbai.
- **ISSN Number** : 0972-0766.
- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
- **City** : Town Hall, Mumbai - 400 023.
- **State** : Maharashtra.
- **Country** : India.

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SRI LANKAN TAMIL REFUGEES PSYCHOLOGICAL PROBLEMS AND CONCERNS

Mrs. P.T. ANBU HANNAH DORA, Associate Professor, Department of French, Holy Cross College, Nagercoil. doraanbu90@gmail.com

ABSTRACT

This paper explores the psychological problems and concerns faced by Sri Lankan Tamil refugees, a marginalized community that has experienced decades of conflict and displacement. It examines the factors contributing to their psychological distress, the impact on their mental health, and the interventions needed to address these pressing issues. The Sri Lankan Tamil refugee crisis, stemming from a protracted civil conflict, has given rise to profound psychological challenges within the displaced population. This paper explores the psychological problems and concerns faced by Sri Lankan Tamil refugees, shedding light on the traumatic experiences that contribute to their mental health disorders. The study focuses on post-traumatic stress disorder (PTSD), depression, anxiety, social isolation, and identity crisis as prevalent psychological issues. These challenges are exacerbated by the forced displacement, loss of homes, communities, discrimination, and stigmatization encountered in host countries. To mitigate the psychological distress faced by the Sri Lankan Tamil refugees, effective interventions and solutions are imperative. These interventions encompass the provision of accessible mental health services specifically designed to address the unique needs of the refugee population. Additionally, community support and integration play a vital role in ameliorating mental well-being by fostering a sense of belonging and preserving cultural identities. In conclusion, this paper underscores the critical necessity of prioritizing mental health support for Sri Lankan Tamil refugees, advocating for comprehensive approaches involving collaborative efforts from governments, non-governmental organizations, and the international community. A holistic approach is fundamental to addressing the psychological ramifications of displacement and promoting the long-term well-being of this vulnerable population.

Key Words: Refugees, Sri Lankan Tamil, Psychological Problems, Trauma, Displacement.


BACKGROUND


The Sri Lankan Tamil refugee crisis is a humanitarian issue born out of a protracted and brutal civil conflict that lasted for nearly three decades, from 1983 to 2009. This conflict between the Sri Lankan government and the Liberation Tigers of Tamil Eelam (LTTE) resulted in widespread displacement, loss of life, and trauma, particularly among the Tamil population in the Northern and Eastern provinces of Sri Lanka. As a result, a significant number of Sri Lankan Tamils were forced to flee their homes, seeking safety and asylum in various parts of the world. The psychological toll of this prolonged conflict and displacement on the Sri Lankan Tamil refugee community is a matter of deep concern. Many individuals within this community have experienced severe trauma, including exposure to violence, loss of family members, and forced migration. These traumatic experiences have left lasting scars on their mental health, manifesting as post-traumatic stress disorder (PTSD), depression, anxiety, social isolation, and identity crises. Understanding these psychological problems is crucial for providing effective support and interventions to this vulnerable population. The **‘Journal of Traumatic Stress’** publishes





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Journal Title (in English Language)	Journal of the Asiatic Society of Mumbai (print only) (Current Table of Content)
Publication Language	English
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E-ISSN	NA
Discipline	Arts and Humanities
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- **Nature of Publication** : Hard Copy.
- **Periodicity** : Annual.
- **Publisher** : The Asiatic Society of Mumbai.
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SOCIO-ECONOMIC LIFE OF INTERNAL IMMIGRANTS IN KONGU REGION

Dr. V. PRADEEPA, Assistant Professor of History, Holy Cross College (Autonomous) Nagercoil.

ABSTRACT

Kongu Region in Tamil Nadu is gifted with various internal immigration activities. The socio-economic disabilities enforced vigorously towards the labelled migrant communities of this region. The cultural activities have a unifying force among the people whether they are majority. Therefore the internal immigrants as well as the Tamils take part in cultural activities without any discrimination. The history of Kongu Region from time immemorial revolved primarily upon the attainments in literary contributions. Migration became a powerful way of changing socio-cultural life of Tamil Nadu. Internal immigration – Telugu, Kannada, Naidues, Gujarati, Rajasthani, Sikhs, Malayalee, and - from rural areas to urban areas in the districts of Coimbatore, Tiruppur, Salem, The Nilgiris, Karur, Dharmapuri, Namakkal, Krishnagri, Dindugal, Palacod and Chamarajnager has increased since 1940 in Kongu Region. There contributions effected a big change in agriculture, industry, business, education, health, social and cultural conditions of Kongu Region. With the advent of migration as settlement – internal immigration, social changes began to take place. It proves the socio-economic development in Tamil Nadu. The primary sources contain a wide range of information and give a complete picture of the internal immigration.

Key wards - Immigration, Samaj, Navaratri, Gurudwaras. Intricate, Sankrit,Cultural, Sikhsm.

Introduction

The diverse and vibrant states of Gujarati, Rajasthani and Malayalee have a significant contribution to the cultural aspect of Kongu Region. The sheer simplicity and amiability of Gujaratis, Rajasthani and Malayalee have made them a flourishing community. They have a vibrant art, architecture, culture, and heritage; all of which is quite evident and attract in the day-to-day lives of the locals. The diversity exhibited by them is a result of the various ethnic groups constituting Gujarat's, Rajasthani's and Malayalee's population; including Indic and Dravidian groups. The vast array of handcrafted products displaying intricate the immigrant's art forms are not only popular in the Kongu Region, but are a well-known entity all across the country. These products include furniture, jewellery, embroidered garments, leatherwork, metalwork, baked clay articles and mirror works. Gujarat serves as the producer of some of the most creative and elegant furnishings that include bedcovers, quilts, cushion covers and table mats. Intricate dainty patterns are woven on the patola sarees with high precision. The traditional art forms of the immigrants play a significant role in preserving its rich heritage.


Social and Economic life of Internal Immigrants


The social and economic life of internal immigrants in Kongu Region helps to have a better understanding of the different communities such as Gujarati, Rajasthani, Sikhs, Kongu-Malayalee, Kongu-Kannada, Naidus, Marwadis, etc. The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 was an Act of the Parliament of India enacted





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**A JOURNEY INTO THE LIVES OF SRILANKAN REFUGEES IN THE
REHABILITATION CENTRES IN KANYAKUMARI DISTRICT**

Dr. K.S. SOUMYA, Assistant Professor of History, Department of History, Holy Cross College (Autonomous), Nagercoil – 629 004.

Dr. I. JALAJA KUMARI, Assistant Professor of History, Department of History, Holy Cross College (Autonomous), Nagercoil – 629 004.

ABSTRACT

Sri Lankan Tamils who came to Tamil Nadu as refugees who lost their property during the civil war in Sri Lanka. There are two types of Tamils in Sri Lanka 1. Native Tamils 2. Hill Tamils who were taken from Tamil Nadu during the British rule to develop and maintain tea plantations in the hilly areas of Sri Lanka. But when the hill Tamils dominated the Tamil origins, there arose the problem that ended with civil wars. In Kanyakumari District there are four active refugee camps namely Perumalpuram, Pazhavilai Gnanarvilai and Kozhivilai. Perumal Puram refugee camp, to located in Agastheeswaram Taluk, it has 542 peoples, Pazhavilai has 211 people, Gnanarvilai has 125 peoples and Kozhivilai has 320 people. The Srilankan refugees are protected by the Tamil Nadu government under various schemes.

Keywords:

Lankan Tamils - Citizenship Act – Sri Lankan Refugees – Native Tamils – Hill Tamils - Rehabilitation Campus - Rehabilitation Department Office.

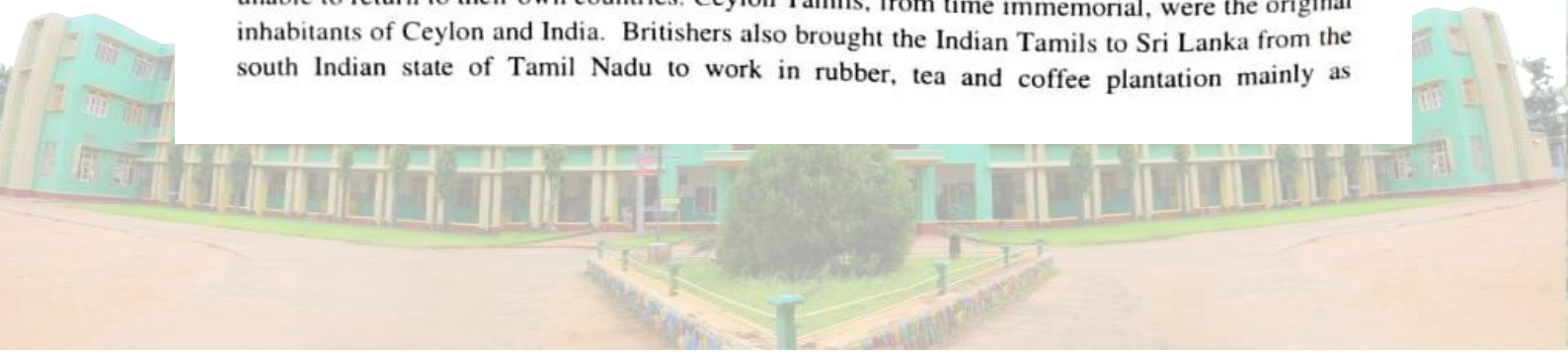
Objectives of the Study:

The article entitled, Sri Lankan Refugees in the Rehabilitation Centers in Kanyakumari District with Special Reference to Women and Children, is very much helped to understand various things related to Sri Lankan Refugees in Kanyakumari District.

- To analyse the causes and the various phases of the arrival of Sri Lankan refugees in Tamil Nadu, Specifically in Kanyakumari District.
- To know about the rehabilitation campus in Kanyakumari District and understand the life condition of refugees who are in the rehabilitation camps.
- To focus the miseries and the various needs of the refugees especially their demand about Indian Citizenship.
- To access the government policy as well as the voluntary organizations towards the wellbeing of the refugees.
- To examine the condition of women and children and their needs in the various aspects.

Introduction:

Refugees are people who have fled from their motherland because of war, ethnic conflict and personal danger. They are extremely displaced people with a well-founded fear of persecution in their countries on the basis of race, religion, nationality, political beliefs and unable to return to their own countries. Ceylon Tamils, from time immemorial, were the original inhabitants of Ceylon and India. Britishers also brought the Indian Tamils to Sri Lanka from the south Indian state of Tamil Nadu to work in rubber, tea and coffee plantation mainly as





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TEMPLE ARCHITECTURE OF THE TAMILS – A STUDY

Dr.R.Suji

Assistant Professor of History
HolyCross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli – 627 012)

DOI: 10.48047/ecb/2023.12.sl10.00333

The aim of this Paper is to describe the development of Temple Architecture of the Tamils from ancient period to the 1735 A.D. "Live not in the place where there is no temple" is a traditional proverb which emphasize the importance of the temple in the life of Tamils. Tamil Nadu is a land of temples with innumerable huge towers. These temples are the result of the gradual development from time immemorial. The earliest Tamil literature *Tolkappiam* contains the references to the Gods and Goddesses of the ancient Tamils. The fivefold geographical divisions of the land and their chief Gods "Seyon, Mayon, Indram, Varunan and Korravai" are mentioned in *Tolkappiam*.

In the earlier days, the images might have been simply enshrined under the trees. The early reference to "Alamar Selvan" may simply refer to the God enshrined under a banyan tree. The "Sthalavrkshas" or the sacred trees of the temples emphasize the fact of its association with the temples.¹ "The Tillai (*Excoecaria Agallocha*) of Chidambaram, the Amra (mango) at the Ekambaranata temple at Kanchi, the Al (banyan) at Kilapalavar. Pullamangai and other places, the Marudu of Tiruvudaimurudur and the Jambu of Tiruvanikka are some examples of temples housed, in the past under the shade of these trees".

Sangam literature also speaks of the Gods and their temples some iconographical features of Siva, Vishnu and Muruga are referred to in *Purananuru*, *Patinappalai*, *Mullaipattu*, *perumpa-narrupadai*, *Maduraikanchi*, *Tirumurugarupadai* and *Paripadal* make a mention of several temples. The two epics *Silappatigaram* and *Manimekalai* also establish the fact of the existence of temples in the Sangam period. The experts of the building art and sculpture were called *Noolaripulavar*.


The later literature refers to one *Kocenganan*, a chola king who had built seventy temples. *Devaram* hymns also refer to many types of temples namely *Ilankovil*, *Alakkovil*, *Mamikkovil*, *Madakkovil*, *Karakkovil*, *Kokudikovil* and *Nalarkovil*. But unfortunately, these buildings were built with perishable materials like wood and bricks and so all the ancient temples prior to the pallavas could not be traced.

Pallava Period 600 to 900 A.D.

Of all the great powers that together made the history of Southern India, none had a more marked effect on the architecture of this region than the earliest of all, that of the Pallavas, whose productions provided the foundations of the Dravidian style². From the beginning of 7th century A.D. the temples were cut out in the existing rocks and later built with dressed stones It is also inferred from the *Mandagapattu* inscription of Mahendravarman that the building materials used for the construction of ancient temples were of perishable nature.

The rock-cut mandapas excavated during the time of Mahendravarman consisted of a rectangular pillared hall in front and the sanctum with single or more cells. The pillars and the entire scheme of the building explain that it is a lithic copy from the wooden structures.




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Author(s): Dr. Regi. S

Source: Proceedings of the South Indian History Congress 41(2023)

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THE CATHOLICS IN KERALA: AN OVERVIEW

Dr. Regi. S

Assistant Professor and Head, Research Centre of History
Holy Cross College
Nagercoil, Tamil Nadu.

Christianity is the third-largest practiced religion in Kerala, accounting for 18.38% of the population according to the 2021 census of India. The total Christian population was 6,141,269.¹ Although a minority, the Christian population of Kerala is proportionally much larger than that of India as a whole. A significant portion of the Indian Christian population resides in the state. There are two views prevailed among the historians about the origin of Christianity in Kerala. As per Apostolic traditions, the origin of Christianity was related to the arrival of Saint Thomas, one of the twelve disciples of Jesus Christ, the founder of Christianity, at the ancient seaport Muziris on the Kerala coast in 52 CE. The other tradition supports the Syrian immigration by the Christian traders from East Syria and Persia.²

The Apostolic origin of Christianity is chiefly based on the “Acts of Apostle Thomas”.³ According to it, St. Thomas came to India in 52 CE and landed near Cranganore. He had founded Churches in Cranganore, Palayur and Quilon. Then he moved to the Coromandel Coast suffered martyrdom in Little Mount near Chennai and was buried in Mylapore.⁴ The reports of Theophilus of Maldives, who was sent to India in 354 CE by Emperor Constantine and Theodore, who visited India in the sixth century CE were the proof for the existence of Christianity in India since the first century CE. A number of third and fourth century Roman writers including Ambrose of Milan and Gregory of Nazianzus also mention Thomas' trip to India, while Eusebius of Caesarea records



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Frequency: Yearly

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A STUDY ON HEALTH AWARENESS AMONG THE COMMUNITY

Dr. J. M VINITHA CHARLES Assistant Professor, Department of Economics, Holy Cross College (Autonomous), Nagercoil.

Ms. J. JOSEPHINE SHINY, Research Scholar, Department of Economics, Holy Cross College (Autonomous), Nagercoil

Abstract

Health is an important factor for the human development. If health is lost everything is lost. During the Covid-19 pandemic corona gave a lesson to the human being about the importance and the awareness of health. Community health is generally measured by Geographical Information Systems and Demographic data. Geographic Information Systems can be used to define sub-communities when neighborhood location data is not enough. Traditionally Community health has been measured using sampling data which was then compared to well-known data sets, like the National Health Interview Survey or National Health and Nutrition Examination Survey.

Key Words: Health, Awareness.

Introduction

Health is an important factor for the human development. If health is lost everything is lost. During the Covid-19 pandemic corona gave a lesson to the human being about the importance and the awareness of health. Community health is generally measured by Geographical Information Systems and Demographic data. Geographic Information Systems can be used to define sub-communities when neighborhood location data is not enough. Traditionally Community health has been measured using sampling data which was then compared to well-known data sets, like the National Health Interview Survey or National Health and Nutrition Examination Survey.

With technological development, information systems could store more data for small-scale communities, cities, and towns; as opposed to census data that only generalize information about small populations based on the overall population. Community health refers to simple health services that are delivered by laymen outside hospitals and clinics. Community health volunteers and community health workers are the main practitioners and they work with Primary Care Providers to facilitate entry into, exit from and utilization of the formal health system by community members. Community health volunteers are members of the local community who have considerable knowledge of the health services available to the community and are used to identify and link beneficiaries or those in need and the registered providers. Community health workers (Community health assistants and Community health officers) are employees who do not necessarily come from the local community but have vocational, professional or academic qualifications which enable them to provide training, supervisory, administrative, and teaching and research services in community health departments. Community health services are classified into Prevention health services such as chemoprophylaxis for Tuberculosis, cancer screening and treatment of diabetes and hypertension, Promotive health services such as Health education, family planning, vaccination and nutritional supplementation, Curative health services such as treatment of jiggers, lice infestation, Malaria and Pneumonia, Rehabilitative health services such as provision of prosthetics, Social work, Occupational therapy, Physical therapy, Counseling and other Mental health services. This paper highlights the needs and importance of health awareness among the community.

Objectives

- To understand the importance of health care among the community
- To find out the problems in health care community
- To highlight the needs of health care in the community

Statement of the Problem

Community health is the intersection of healthcare, economic and social interaction. Unfortunately, many people are unaware of the role this type of healthcare plays in their everyday

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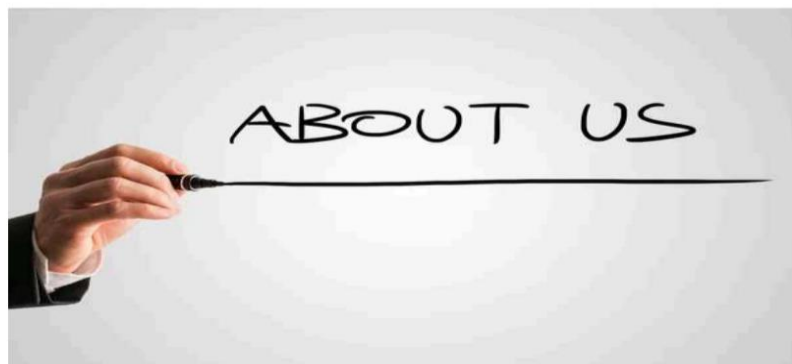
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‘सत्राची फाउंडेशन’



‘सत्राची फाउंडेशन’ कंपनी अधिनियम, 2013, सेक्शन 8 के तहत कारपोरेट मंत्रालय, भारत सरकार द्वारा मान्यता प्राप्त एक शोध संस्था है जो जनवरी, 2021 से सक्रिय है। यह संस्था मुख्य रूप से भाषा, साहित्य, शिक्षा, समाज, राजनीति एवं संस्कृति से संबंधित विषयों में शोध करने-करवाने के साथ-साथ उसे प्रकाशित करने का उद्देश्य रखती है।

बिहार के साहित्यकार एवं उनका साहित्य इस संस्था की प्राथमिकताओं में है। आने वाले दिनों में बिहार के प्रमुख साहित्यकारों की जीवनी, उनकी रचनाओं की संचयिता एवं उनके साहित्यिक वैशिष्ट्य को उद्घाटित करने वाली

A Study on Income Generation through Part-Time Job Earners among the College Students in Nagercoil Town

○ J.M. Vinitha Charles²⁸

Abstract
Part time work can be described as a profession in which there is no obligation between employer and employee to maintain a long working relationship. These posts are usually meant as temporary shelter for people who suddenly find themselves retrenched and looking for better opportunities, while at the same time sustaining themselves on the wages gained from working part time. Search for night time work is crucial if we want to be able to make more money to supplement our current income, as this kind of work allows us to have very flexible work schedule. The recession that recently struck our economy that can mean the difference between paying bill and comfortable fighting for the payment of even its most basic accounts. This paper highlights the pros and cons of part time job and also the effect of income generation through part time job by the college students.

Keywords: Part-time, Management, Job market, Stress, Unemployment

Introduction:

People love to do part time jobs. The parents approve it easily as they are said to gain experience from working. However having a job is a big responsibility for a student. A student with a part time job will learn not only great work ethic but also how to balance that demanding workloads between college and work. This is great for when students get become involved in other activities they will know time management and how to balance their energy between activities. Time management is a skill that is extremely important to students and people in today's world, because everything is so fast and compressed; there is a lot to do in a typical day of a student. Employed students must learn how to work while still making time for their studies and other things. They will also gain confidence in telling the boss when they absolutely cannot work because college work must come first. Part time students have been recognized for some time very significant section of the higher education student's population. Part time job is needed because of economic crisis in the world. At time, students are in such a part time job to earn some money to offer the study expenses at the University. Students also can do online part time job such as being

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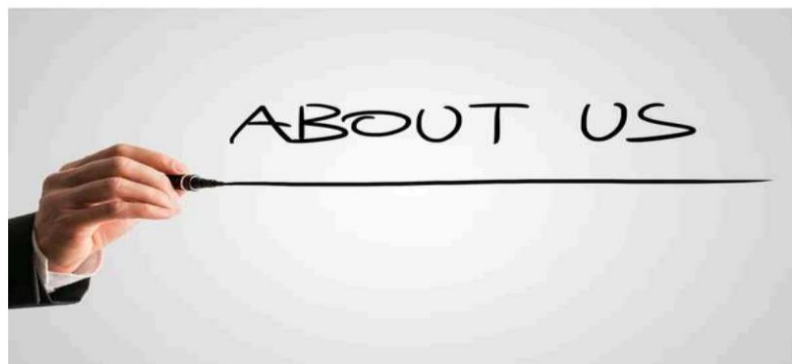
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Problems and Prospects of Single Parents with Special Reference to Nagercoil Corporation

○ Dr. J.M. Vinitha Charles¹

Abstract:

Joint family system is a great blessing in our society. Nowadays this blessing is vanishing because of so many reasons. The death and divorce are the main reasons for the single parent in our society. The life of a single parent can be a very tough job. Everyone have to be a good role model to be both mother and father. All the responsibilities of the household lie on the shoulders of the single parents. Even though single parenting can be difficult, the rewards are far greater. Being both mother and father can be strenuous at times. All of the discipline lands on one person. The parent doesn't have anyone to back them up in the discipline of the children, or to help enforce the rules. Children need to be shown the gentleness of a female, but also the firmness of a male. This paper highlights the problems and prospects of single parents in their day today life.

Keywords: Single parent, Disparity, Isolated, Divorce, Stress, Loneliness

Introduction:

Joint family system is a great blessing in our society. Nowadays this blessing is vanishing because of so many reasons. Marriage system unites the family but some social and economic reasons it separate and scatter the family. The life of a single parent can be a very tough job. Everyone have to be a good role model to be both mother and father. In order to grow up every children should need a healthy environment. They need a support of both father and mother. If they fails to get a family support both from the father and mother they will face so many problems in their life. Financial responsibility is always a big issue in single parent households. There are organizations they can help in time of need like providing food, clothing, and shelter. Likewise family, friends and social organizations may also help them in financial emergencies. All the responsibilities of the family lie on one person instead of both such as homemaker, cook, tutor, chauffeur, and playmate. A parent must be ready to face any problems at any situation like sickness of a child, early dismissal of school, unexpected financial need and so on. Whether the single parents are sick, tired, or hurt the children still have to be cared for. Single parents also find time to take care of themselves and make time for a social life.

1. Assistant Professor, Department of Economics, Holy Cross College (Autonomous), Nagercoil-629004



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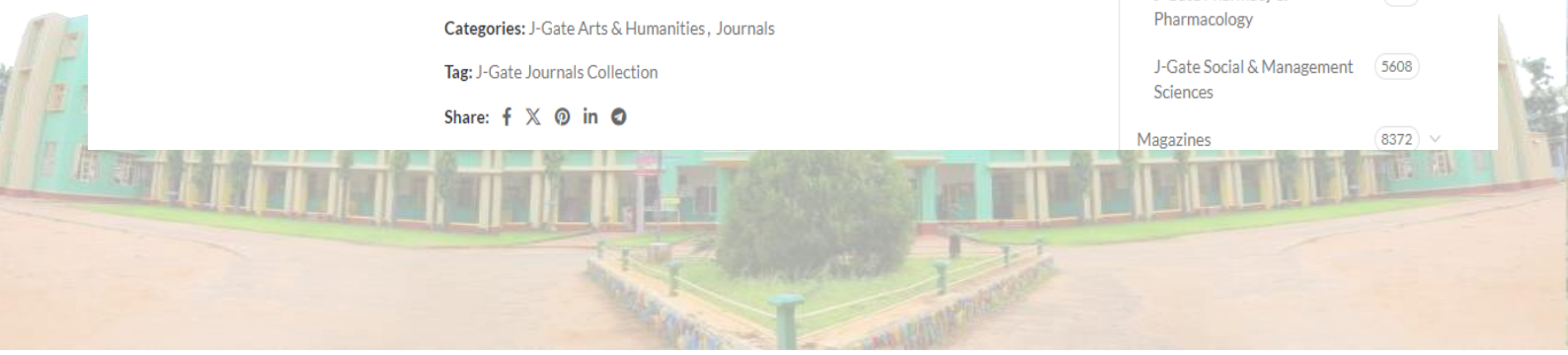
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A Study on Challenges of the Elderly in India

Dr A. Sameema*

Abstract—Ageing is a normal aspect of life. It is universal, multidimensional, irreversible, and inevitable. It brings a change in the body, mind and social status. It creates a pattern of changes not only in the structure and functioning of the body but also in the adjustment of a person to his surroundings. Ageing is often defined by a variety of changes that occur in an individual's life, such as greying of hair, the need for bifocals, fading and wrinkling of the skin, stooping of gait, loss of independence in functioning, a drop in productive activities, and superannuation. Ageing becomes a torturous treadmill that tragically ends. Age-related changes in these individuals' lives depend not only on their physical and mental capabilities but also on their social and cultural aptitudes. Unfavourable and unfavourable attitudes toward these changes not only make it difficult to adjust well to old age, but they also hasten the ageing process. Numerous psychological and socioeconomic difficulties have been seen in the elderly, such as memory loss, lack of confidence in one's ability and adaptability, feelings of being redundant, undesired and worthless, abandoned and humiliated, alone and lonely, lost interest, uneasiness about life, and a continual sensation of stress, concern, and anxiety.

INTRODUCTION—Ageing in India is increasing at an exponential rate as a result of society's remarkable gains in terms of increased life expectancy. As the ageing population expands, so does the demand for holistic care. By 2025, 840 million old people are expected to live in developing countries. According to predictions, the proportion of Indians aged 60 and more would rise from 7.5% in 2010 to 11.1% by 2025. In 2010, India had around 91.6 million senior citizens, and the number of elderly persons in India is predicted to reach 158.7 million by 2025. An ageing population puts additional demand on a country's resources, raising worries at all levels of the Indian government.

Caring for the elderly comprises a variety of societal difficulties. Age, financial status, health, living circumstances, and other factors all affect the needs and difficulties that older people face. Their social rights are being overlooked, and they are being mistreated in an unseen manner. Their social care entails dealing with several societal challenges. The requirements and challenges of the elderly vary greatly depending on their age, socioeconomic level, health, living situation, and other factors. Their social rights are being ignored, and they are being abused in a way that goes unnoticed.

Lack of Infrastructure: Given rising lifespan and crippling chronic conditions, many elderly people will require improved physical infrastructure in the future years. A major barrier to offering comfort to the elderly is a lack of physical infrastructure. Many senior adults require improved access to physical infrastructure, both in their homes and in public places. In India, where there is no system of inexpensive healthcare, ageing is accompanied by untreated chronic illness, expensive medications and treatments, and starvation. The public health system places little emphasis on geriatrics, with only a few specific geriatric services. The public health system's additional problems include a lack of facilities, a shortage of workers, low care standards, and facility congestion as a result of a lack of attention to senior care.

Changing Family Structure: Traditional Indian culture, with its centuries-old joint family system, has played an important role in ensuring the social and economic stability of the elderly. The traditional traditions and ideals of Indian culture also emphasized respect and care for the elderly. Yet, as nuclear families have become more prominent in recent years, the elderly are expected to confront mental, physical, and financial challenges in the coming years. Seniors living alone or with a spouse increased from 9.0% in 1992 to 18.7% in 2006. Because of the nation's economic modernization, less senior care will likely be provided by families in the coming years.

Lack of Social Support: The elderly in India are much more vulnerable because of the less

* Assistant Professor in Economics, Holy Cross College (Autonomous), Nagercoil



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Economic Factors of Happiness Among Working Women

PDF (<https://harbinengineeringjournal.com/index.php/journal/article/view/2201/1590>)

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Abstract

Happiness is a psychological concept with several definitions and dimensions. In the field of psychology, the happiness is a positive emotion that is deeper than a good temporary mood. Happiness is one of the most important concepts in the field of mental health and defined as a sustainable approach and pleasant feeling. Happiness in mental health, includes positive emotions such as joy, peace, a sense of involvement and enthusiasm in life. Many psychologists believe that there are at least three fundamental elements of happiness, including emotional, social and cognitive conceptions. Emotional component causing a positive emotional state while social component has led to widespread and positive social relationships with others. The cognitive component causes the individual to interpret everyday events with optimism. Gender, income, married status, education level, the job satisfaction, health promote education and increase knowledge are the main effective factors on human happiness. The stress levels are more overwhelming in the case of women due to the greater need among them to strike a balance between their personal and professional lives. Recent years have seen a shift in the role played by women, wherein they are no longer handling the expectations of the family and society alone. The women face lots of challenges to make her life stable in her dual role. The study is to find out the economic factors of happiness among working women.

Issue

Vol. 44 No. 12 (2022) Issue 12 (<https://harbinengineeringjournal.com/index.php/journal/issue/view/38>)

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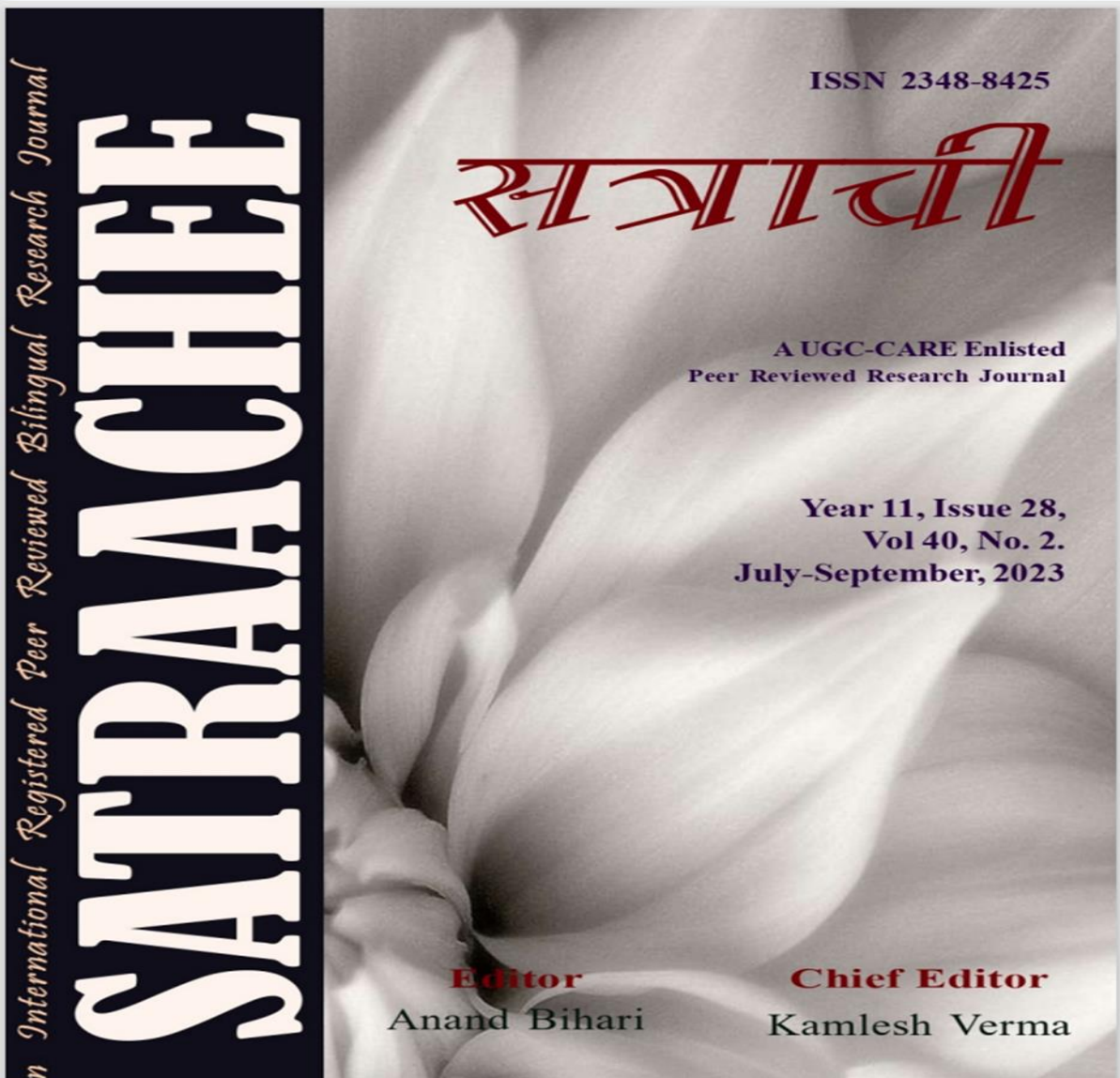
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Factors Influencing Consumers Green Purchase Intention

- K. Rosario Florence¹
- Dr. S. Sahayaselvi²

Abstract:

Environmental pollutions can be detrimental to one's health and well-being. Maintaining a healthy environment is critical for assisting people in living longer and better lives. As a result, in order to protect their health and well-being, consumers are becoming more environmentally conscious. Consequently, they are moving towards green products, also known as eco-friendly products. Even though there is evidence of consumer environmental consciousness in the literature, their purchasing behaviour towards green products is not well interpreted. As a result, the objective of this paper is to investigate the factors that influence consumers' green purchasing intentions. The data were collected through multistage random sampling. Using an interview schedule, data was collected from 104 respondents from 52 wards of Nagercoil town. The presented data were processed using appropriate statistical techniques in particular with respect to the percentage method and factor analysis.

Keywords: Green products, Consumer, Purchase intention, Environmental conscious

Introduction:

Recognizing that human activities are diminishing natural resources has risen the importance of environmental protection and environmental consciousness in consumer behaviour. This, in turn, has increased global demand for green products. Gurau and Ranchhod (2005) defined green products as a product made using environmentally safe ingredients by a company that applied green practices and the products have eco-certified by a recognized organization. Consumers began to change their lifestyles and business activities, and gradually tended to increase consumption of green products (Kong et al., 2014). As customer awareness to buy green products has increased in recent decades, this research attempted to identify the factors determining the consumer's green products purchasing intention.

Statement of the Problem:

We have a numerous physical and psychological problems in today's fast-paced society,

1. *Research Scholar, Reg.No:21113041012002, Department of Commerce, Holy Cross College (Autonomous) Nagercoil,*
2. *Research Supervisor in Commerce, Holy Cross College (Autonomous), Nagercoil, [Affiliated to Manonmaniam Sundaranar University, Tirunelveli]*

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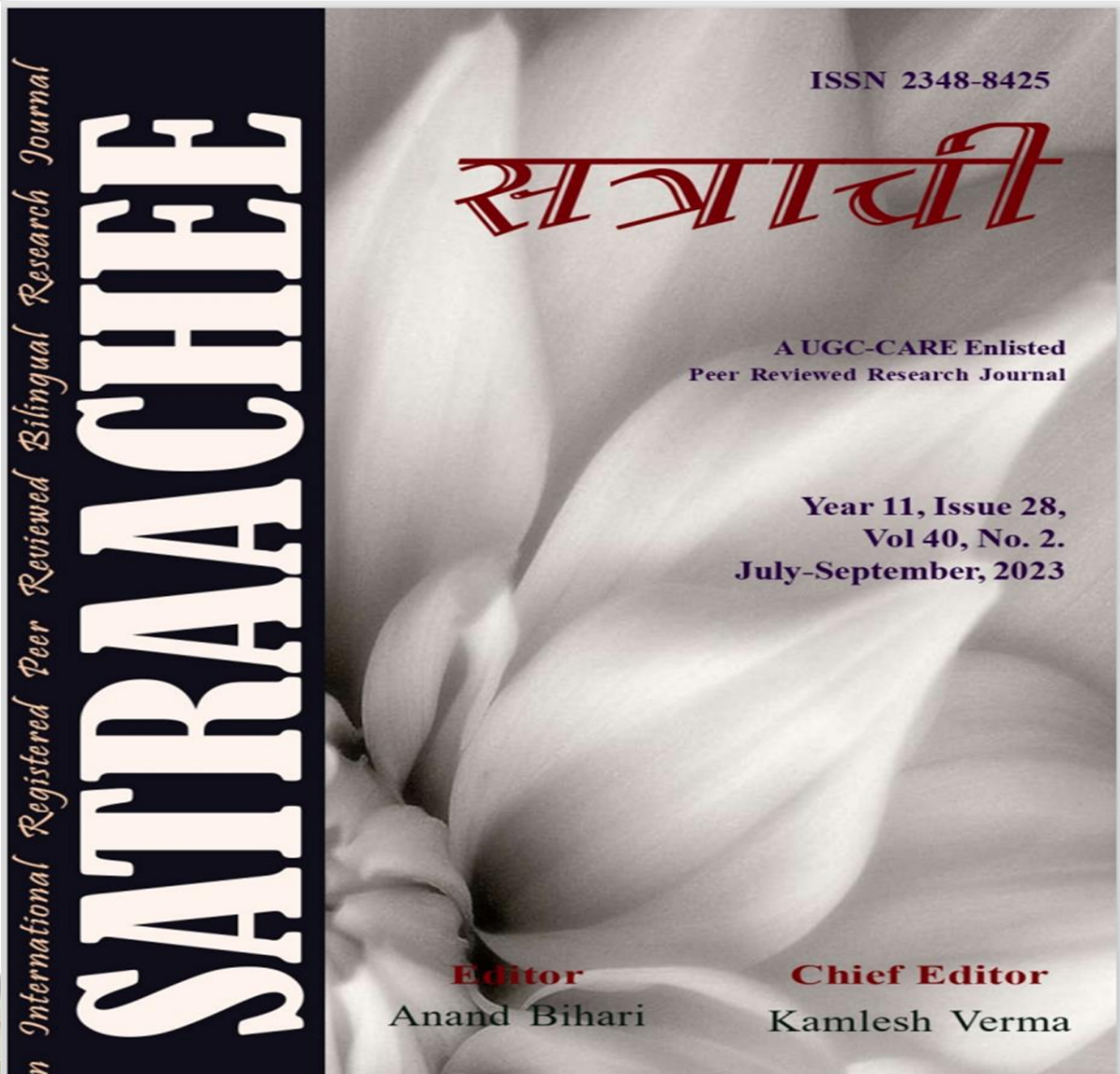
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Consumer Awareness of Green Banking Practices

- Saromi. N¹
- Dr. S. Sahayaselvi²

Abstract:

Environmental protection has been acknowledged as one of the world's most pressing challenges of today, including India. It puts pressure on all sectors of the economy, together with financial services, to implement "green" projects that offer environmentally friendly services. Banking and financial institutions can take proactive measures, such as minimizing their extensive use of paper and establishing the notion of "green banking" at their multi-branch institutions. This study examines how consumers regard green banking practices. This study focuses on the awareness of green banking among the public, expanding the environmental issues due to lack green banking initiatives, and the types of banking activities started to safeguard the environment to reduce the carbon foot prints. It evaluates the elements impacting consumer demand for and use of green banking products, as well as the advantages of such practices for consumers.

Key words: *Green Banking, Customer awareness, Green Banking Initiatives, Carbon Foot prints*

Introduction:

Many banks have started taking actions to protect the environment in recent years. They have implemented mass transit, used energy-efficient light bulbs, and taken several other measures to limit the pollution-causing agents in their internal operations. Environmentally friendly building materials, many green goods, paperless banking, green cards, and green loans, are currently in use. Many banks have begun focused on offering more and more green products¹. Banking sectors are the main source of money for different commercial projects and those are working in bringing the economic development of a country. Green banking is nothing but the operation of the banking activities giving especial attention upon the social, ecological and environmental factors aiming at the conservation of nature and natural resources. Green bank promotes environmental and social responsibility but operates

-
1. *Research Scholar, Reg. No: 21113041012001, Department of Commerce, Holy Cross College (Autonomous) Nagercoil.*
 2. *Research Supervisor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil. (Affiliated to Manonmanium Sundaranar University)*



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Scopus coverage years: from 2009 to Present

Publisher: Multidisciplinary Digital Publishing Institute (MDPI)

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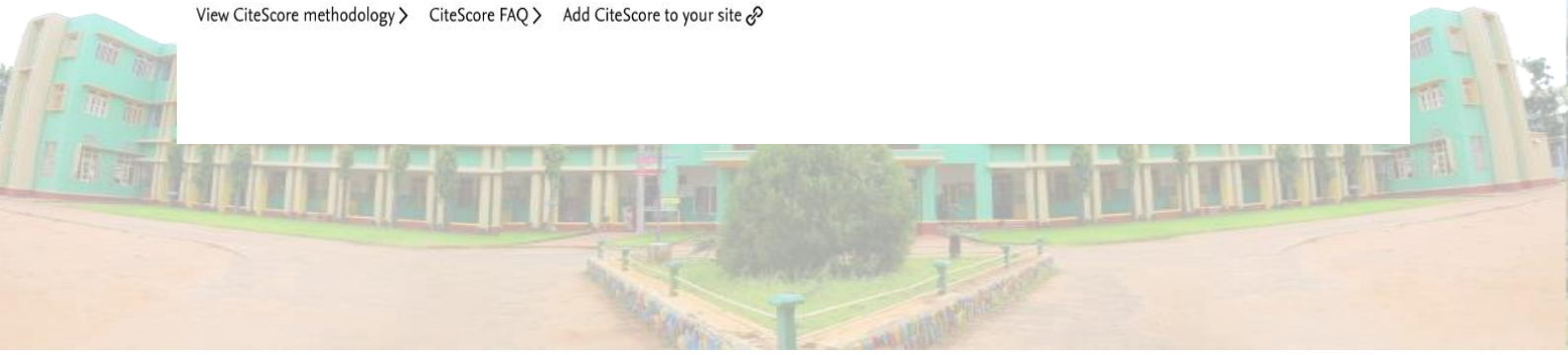
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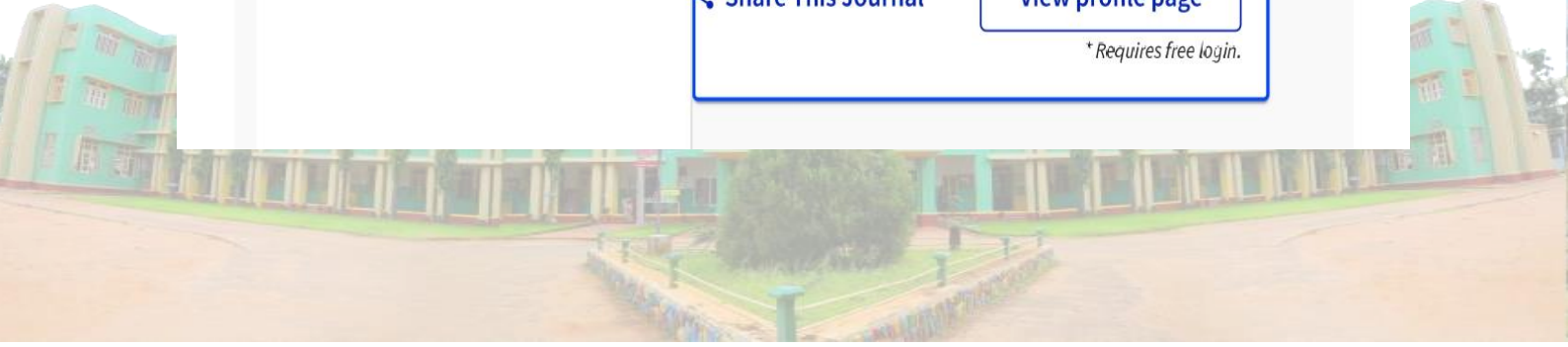
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by Lu Tan, Lei Pan and Lin Wang
 Sustainability 2024, 16(8), 3347; <https://doi.org/10.3390/su16083347> (registering DOI) - 16 Apr 2024

Abstract: Inoculum pretreatment and substrate/inoculum ratio (SIR) are essential factors affecting the acidogenic fermentation of chemically enhanced primary treatment (CEPT) sludge. To determine the optimal inoculum conditions, the influence of inoculum pretreatment and SIR on the production of volatile fatty acids (VFAs) was investigated [...] [Read more.](#)

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Article

Quality of Work Life as a Precursor to Work–Life Balance: Collegiality and Job Security as Moderators and Job Satisfaction as a Mediator

 Samuel Jayaraman ¹ **Hesil Jerda George ²** Mariadoss Siluvaimuthu ³ and Satyanarayana Parayitam ^{4,*}
¹ Loyola College (Autonomous), Chennai 600034, India; sarcsamj@gmail.com

² Holy Cross College (Autonomous), Manonmaniam Sundaranar University, Tirunelveli 627012, India

³ St. Xaviers College (Autonomous), Manonmaniam Sundaranar University, Tirunelveli 627012, India; mdoss87@gmail.com

⁴ Charlton College of Business, University of Massachusetts Dartmouth, North Dartmouth, MA 02747, USA

* Correspondence: sparayitam@umassd.edu

Abstract: The current study investigates the relationship between quality of work life (QWL) and work–life balance (WLB) among construction workers in a developing country, India. A multi-layered conceptual model involving collegiality and job security as moderators in the relationships were developed. A survey instrument was used, and data were collected from 592 construction workers from southern India. After checking the psychometric properties of the measures using LISREL 9.30 software for covariance-based structural equation modeling (CB-SEM), a structural model was analyzed using Hayes’s PROCESS macros. The findings indicate the following: (i) QWL is positively associated with (a) WLB and (b) job satisfaction; (ii) job satisfaction positively predicts QWL; and (iii) job satisfaction mediates the relationship between QWL and WLB. The results also support the following: (i) work environment (second moderator) moderates the moderated relationship between QWL and collegiality (first moderator) in influencing job satisfaction; and (ii) work hours (second moderator) moderates the moderated relationship between job satisfaction and job security (first moderator) to influence WLB. The first three-way interaction between QWL, collegiality, and work environment and the second three-way interaction between job satisfaction, job security, and work hours have been investigated for the first time concerning construction workers in a developing country context and make a novel contribution to the advancement of literature on QWL and WLB. Further, this study contributes to the socio-economic well-being of workers and contributes to the sustainable working environment. The implications for theory and practice are discussed.

Citation: Jayaraman, S.; George, H.J.; Siluvaimuthu, M.; Parayitam, S. Quality of Work Life as a Precursor to Work Life Balance: Collegiality and Job Security as Moderators and Job Satisfaction as a Mediator. *Sustainability* **2023**, *15*, 9936. <https://doi.org/10.3390/su15139936>

Academic Editor: Hyo Sun Jung

Received: 27 May 2023

Revised: 13 June 2023

Accepted: 20 June 2023

Published: 21 June 2023



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Keywords: quality of work life; work–life balance; job satisfaction; job security; collegiality; work environment; work hours; moderated-mediation; construction workers; India

1. Introduction

During the past three decades, scholars in organizational behavior and human resource management have focused on two fundamental constructs: quality of work life (QWL) and work–life balance (WLB) [1–9]. A recently-hit global pandemic has significantly influenced the QWL of employees because of frequent lockdowns, social distancing, work-from-home or remote working, increased stress, and burnout when dealing with the unprecedented changes in work [10–13]. As a result, employees struggle to balance challenging work demands and personal priorities, resulting in a work–life imbalance [1,14]. Realizing the importance of maintaining WLB, earlier scholars have suggested



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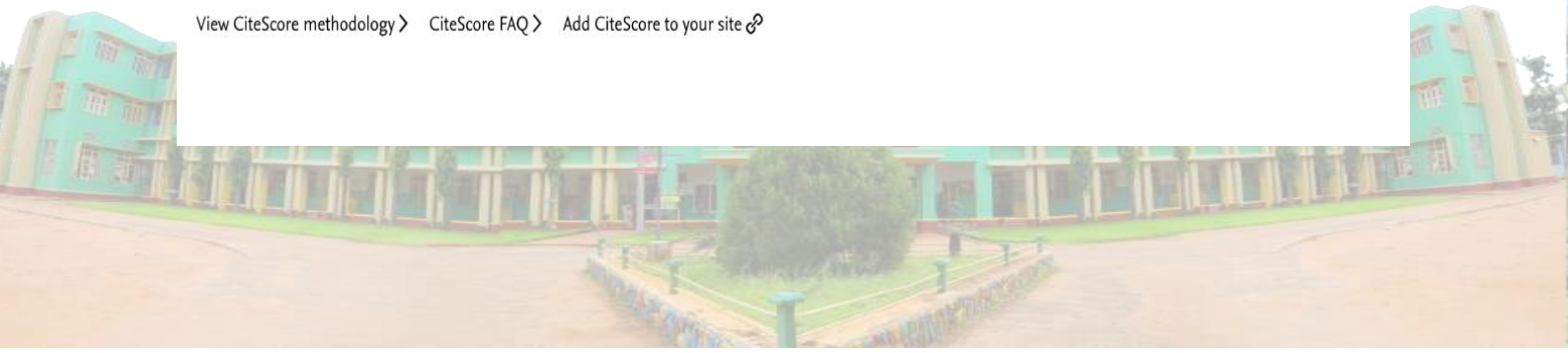
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Abstract

Purpose

This study aims to assess the negative aspect of social media use among college students in India. A conceptual model showing the relationship between excessive social media use (ESMU) and academic performance of college students has been developed and tested. Further, the moderating role of psychological well-being and avoidance strategies were investigated.

Design/methodology/approach

A survey instrument was developed, and data was collected from 557 college students from higher educational institutions in southern India. First, the psychometric properties of the measures were tested using the Lisrel software for covariance-based structural equation modeling. Second, the structural model was tested by using PROCESS macros.

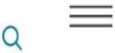
Findings

The results reveal that ESMU is a precursor to anxiety and academic performance. The findings also indicate that anxiety mediates the relationship between ESMU and academic performance. Psychological well-being and avoidance strategies were significant moderators in the relationship between ESMU and anxiety.

Originality/value

The multi-layered conceptual model was developed and tested in the context of a developing country (India) and investigated the effect of ESMU by college students on their academic performance and anxiety. The three-way interaction between psychological well-being (first moderator), avoidance strategies (second moderator) and ESMU





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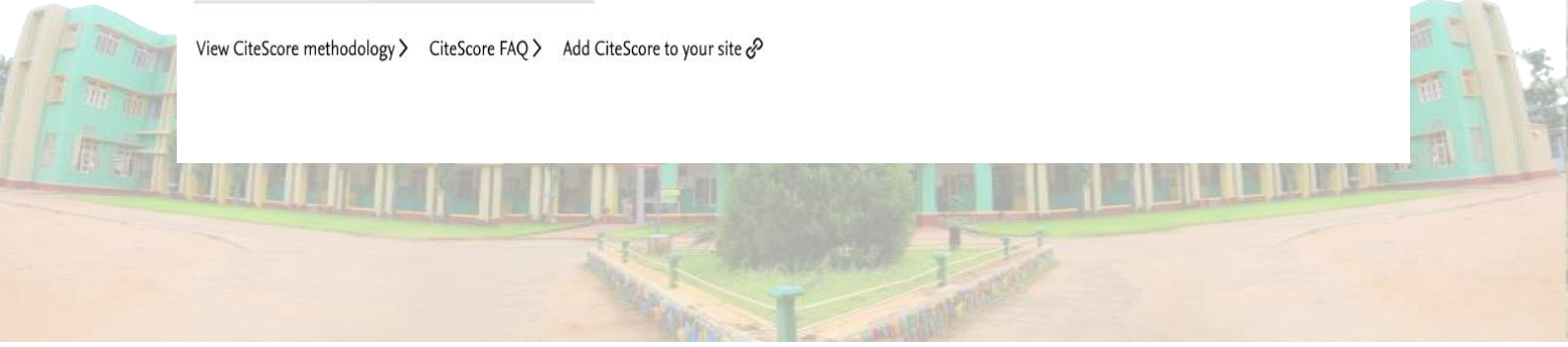
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 Revised 9 May 2023
 17 August 2023
 27 August 2023
 14 September 2023
 Accepted 15 September 2023

The relationship between green packaging awareness, initiatives, and behavior: an exploratory study on India rural population

Hesil Jerda George and Sahayaselvi Susainathan

Department of Commerce, Holy Cross College (Autonomous), Nagercoil, Manonmaniam Sundaranar University – MSU, Tirunelveli, India, and

Satyanarayana Parayitam

Department of Management and Marketing, Charlton College of Business, University of Massachusetts Dartmouth, North Dartmouth, Massachusetts, USA

Abstract

Purpose – This study aims to investigate the antecedents and consequences of green packaging behavior (GPB). A conceptual model has been developed wherein green packaging awareness (GPA) and green packaging initiatives (GPI) are precursors of GPB, and environmental concern and availability of various green packaging alternatives are moderators. The outcomes of GPB in terms of environmental and personal benefits are examined.

Design/methodology/approach – Unlike most papers focusing on green packaging from a marketing perspective, this study explores the behavior of rural households from 47 villages in southern India. A carefully crafted survey instrument was developed, and data were collected from 395 respondents. After checking the instrument's psychometric properties, the results were analyzed using Hayes's PROCESS macros.

Findings – The results indicate that GPA and GPI are positively associated with GPB, GPA predicts GPI, and GPI mediates the relationship between GPA and GPB. Furthermore, findings suggest that environmental concern moderates the relationship between GPI and GPB, and the three-way interaction between the availability of green packaging (second moderator), environmental concern (first moderator), and GPI influences the GPB. Moreover, the outcomes of GPB in terms of environmental and personal benefits are established.

Research limitations/implications – This research has several theoretical implications. It documents that individual awareness of green packaging is a precursor to GPB. This study focused on the rural population from a developing country (India) and hence may suffer from a lack of generalizability across developed nations. However, the results could be generalizable across other developing nations worldwide.

Practical implications – This study motivates individuals to engage in proenvironmental behavior. Moreover, it highlights the importance of GPB in deriving environmental and personal benefits. It is also



RAUSP Management Journal
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The authors want to thank the coeditor, Professor Kavita Miadaira Hamza, the Associate Editor, Professor Marina Suter and the anonymous reviewers for their constructive suggestions to the earlier versions of the manuscript.





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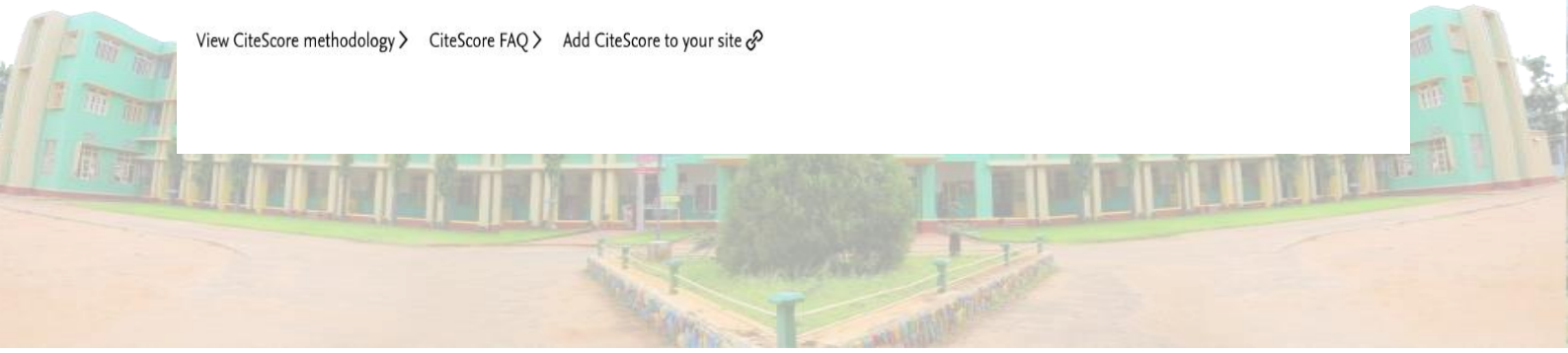
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Hesil Jerda George¹,
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 Satyanarayana Parayitam²

Abstract

This research aims to investigate the effect of green packaging on a sustainable environment. A double-layered complex conceptual model was developed, and the relationships between green packaging awareness (GPA), green packaging behavior (GPB), and environmental benefits were tested. A carefully crafted survey instrument was used in collecting data from 389 respondents from 41 villages in southern India. After checking the psychometric properties of the survey instrument using the LISREL package of structural equation modeling (SEM), the hypothesized relationships were tested using Hayes's PROCESS macros. The results indicate (i) GPA and GPB are positively associated with environmental benefits and (ii) GPB mediates the relationship between GPA and environmental benefits. The findings also support the three-way interaction between GPA, green packaging initiatives (GPI), and environmental concern in enhancing GPB. The double-layered moderation tested in this research adds to the novelty of the study, thus making a unique contribution to the burgeoning literature on sustainability.

¹Department of Commerce, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India

²Department of Management and Marketing, Charlton College of Business, University of Massachusetts Dartmouth, North Dartmouth, MA, USA

Corresponding Author:

Satyanarayana Parayitam, Department of Management and Marketing, Charlton College of Business, University of Massachusetts Dartmouth, 285 Old Westport Road, North Dartmouth, MA 02747, USA.
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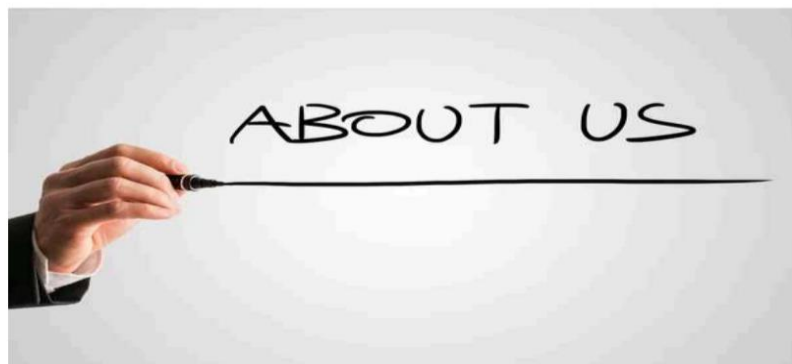
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*Assistant Professor of Commerce,
Holy Cross College (Autonomous), Nagercoil.*

Abstract

An entrepreneur is someone who starts a business and face financial risk with the intention of making money. This survey details the degree of scheme awareness among entrepreneurs. The goal is to investigate the degree of knowledge about the programs of federal government schemes offers to entrepreneurs. This information was gathered from a structured survey that had 75 respondents. The researchers have applied simple statistical tools like percentage Analysis, Garrett Ranking method and liker's five point scaling techniques to analyze the collected data. In this study both primary and secondary have been collected from entrepreneurs in Nagercoil town. Collected data were analysed with the help of statistical tools and suggestions are given based on findings.

India remained confined to within four walls of their homes and their immense strength and potential remained unrecognized and unaccounted for. Now, they are increasingly participating in all spheres of activities. The fact remains that the citadels of excellence in academic, politics, administration, business and Industry are no longer the prerogatives of men in India. The general consensus that is emerging in all discussions relating to the development of entrepreneurs should form an integral part of all development efforts. The experience of the US where the share of continuously on increase, strengthens the view that the future of MSMEs depends very much on the entry of women in to industry. Several national and international Organisations and agencies have appreciated the need for and importance of developing women entrepreneurs in recent years. Government schemes that can help Entrepreneurs in India grow their small business. The main reason for non-utilization of the Government Schemes is lack of awareness of various entrepreneurship schemes promoted by Central and State Government. Hence, a majority of the entrepreneurs are not aware of schemes promoted by the Government.



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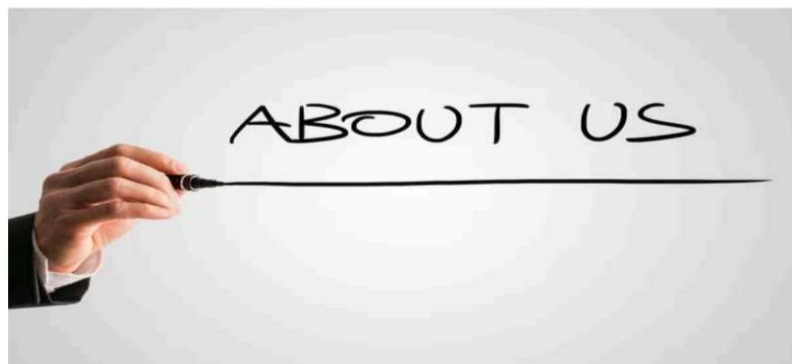
Sr.No.	Journal Title	Publisher	ISSN	E-ISSN	UGC-CARE coverage years	Details
1	Satraachee	Satraachee Foundation	2348-8425	NA	from July-2022 to October-2023	Discontinued from Oct. 2023

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‘सत्राची फाउंडेशन’



‘सत्राची फाउंडेशन’ कंपनी अधिनियम, 2013, सेक्शन 8 के तहत कारपोरेट मंत्रालय, भारत सरकार द्वारा मान्यता प्राप्त एक शोध संस्था है जो जनवरी, 2021 से सक्रिय है। यह संस्था मुख्य रूप से भाषा, साहित्य, शिक्षा, समाज, राजनीति एवं संस्कृति से संबंधित विषयों में शोध करने-करवाने के साथ-साथ उसे प्रकाशित करने का उद्देश्य रखती है।

बिहार के साहित्यकार एवं उनका साहित्य इस संस्था की प्राथमिकताओं में है। आने वाले दिनों में बिहार के प्रमुख साहित्यकारों की जीवनी, उनकी रचनाओं की संचयिता एवं उनके साहित्यिक वैशिष्ट्य को उद्घाटित करने वाली

A Study on Financial Attitude towards Women Entrepreneurer

- A.L.Jaheera Thasleema¹
- Dr. C.K. Sunitha²

Abstract:

Entrepreneurs have the ability to save their money for future investments. Their surplus funds must be invested or saved in order to use them later for future business requirements. This study aims to analyse the financial attitudes among women entrepreneurs. The approach used in this research is quantitative with an explanatory approach. This study takes into consideration the women entrepreneurs in Kanniyakumari district. The sampling technique used is purposive sampling with a sample size of 150. Each and every respondent are interviewed with the help of questionnaire. Financial attitude plays a major role in entrepreneurship. Thus the research study concentrates on women entrepreneurs.


Keywords: financial attitude, investment, entrepreneur, business.

Introduction:

All businesses need capital to expand, which is an essential requirement. Entrepreneurs who use the country's assets for their own development will indirectly help in nation's growth. Thus, decisions regarding the country's economic growth are made by entrepreneurs. As a consequence of this, the government has provided a lot of assistance for the development of entrepreneurship in the nation. Despite all the initiatives, many businesses still face challenges with access to financing and banking services. Entrepreneurs have a choice between internal and external funding sources when their company requires money to grow. Internally, the business can use corporate profits to raise money. Accounts outstanding and account payable can also be used by entrepreneur to obtain extra internal funding. Entrepreneur can also obtain additional capital from investors or debt financing from outside sources. Many entrepreneurs decide to use internal company assets to expand their enterprises. The primary motivation is to keep control of the business.

-
1. *Research scholar in Commerce, Reg. No.21113041012003, Holy Cross College (Autonomous), Nagercoil. [Affiliated to Manonmaniam Sundaranar University, Tirunelveli]*
 2. *Assistant Professor and Research Supervisor in Commerce, Holy Cross College (Autonomous), Nagercoil*





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Publication Language	English , Marathi
Publisher	Indian Institute of Education
ISSN	2278-6864
E-ISSN	NA
Discipline	Social Science
Subject	Social Sciences (all)
Focus Subject	General Social Sciences
UGC-CARE coverage years	from September-2019 to Present

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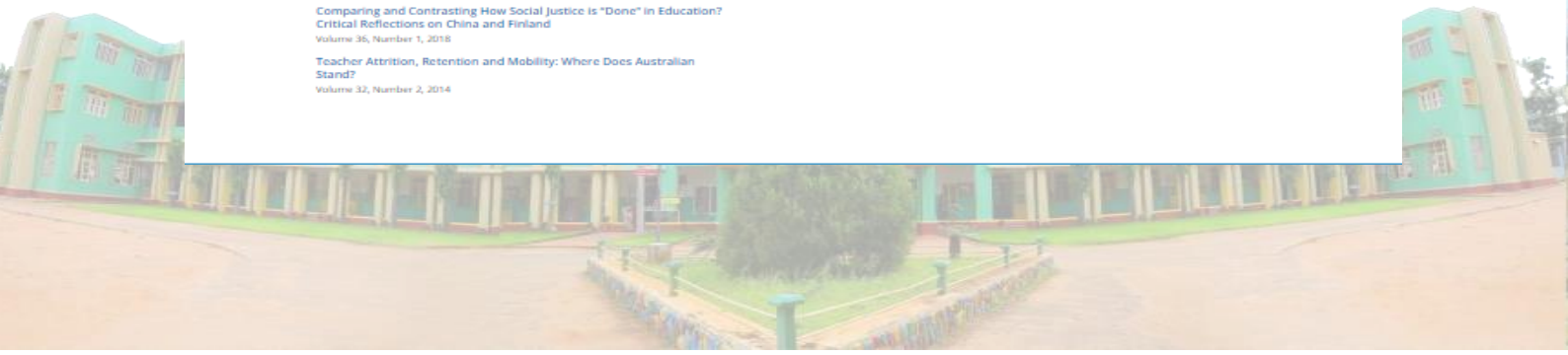
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Education and Society (शिक्षण आणि समाज)
(UGC Care Journal)

ISSN: 2278-6864

Vol-47, Issue-1, No.-08, January-March: 2023

**A STUDY ON THE ATTITUDE OF CUSTOMERS TOWARDS CUSTOMER
RELATIONSHIP MANAGEMENT (CRM) IN PUBLIC SECTOR BANKS WITH SPECIAL
REFERENCE TO NAGERCOIL TOWN**

Dr.M.Charles Dayana, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil

ABSTRACT

Customer relationship management is the business buzzword in these days. Almost every organization adopts CRM practices. In this study the author has given little attention to how public sector banks maintain CRM practices in their respective banks and how much the customers are satisfied with those services. This paper provides the insight view about the problems faced by the customers and how the bankers are taking measures to satisfy their customers. According to the author, maximum number of people are having accounts in public sector when compared to private sector banks but when we take customer services by these banks private sector banks are providing better when compared to public sector banks. This has to be changed, and this study says that a shift from customer services from personalized services is highly essential to satisfy all group of customers, with proper practices of CRM this can be achieved.

Keywords: Customers Relationship Management, Public Sector Banks, Customer Service.

1.INTRODUCTION

Indian economic environment is witnessing a path breaking reform measures, of which banking industry is the largest player. Indian banking industry is gradually moving towards adopting the best practices in accounting, corporate government, management and customer relationship management. Customer relationship management promises faster customer services with lower costs, more customer satisfaction with better customer loyalty. All this is done in hope for more sales and profit; company's goal can be more satisfaction of customer's needs and wants.

Customer relationship management us the system to identify, acquire and retain the best customers. CRM helps in understanding customer needs and in building relationship with customers by providing most suitable products and services with enhanced customer services. It integrates all subsystems to maintain database of customer contacts purchase and technical support among other things, this data base helps the company in identifying the needs of the customers to improve the quality of the relationship in which customer is the king.

Nowadays many businesses such as banks, insurance companies and other service providers realizes the importance of CRM and its potential help them acquire new customers and retain the existing once and maximize their lifetime value.


2. STATEMENT OF THE PROBLEM

The customers in the service quality sectors are becoming more educated and they expect the services and the service quality at par with the foreign banks, they are expecting not only core and value-added services from banks but also personalized services.

Those banks that are offering such personalized services and maintaining their customer relationship are performing better than others since the cost of acquiring new customers is greater than the cost of retaining existing customers and attract new customers if possible. In this era of increased competition, in order to improve standards, it will be beneficial for the banks to develop long-term relationship with customers by offering superior quality and services.

Developing long term relationship with customers depends on three dimensions like service quality, product quality and relationship quality. So, it is imperative to study the attitude of customers towards CRM in public sector banks.





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Journal Details	
Journal Title (in English Language)	South India Journal of Social Sciences
Publication Language	English
Publisher	A. P. Academy of Social Sciences
ISSN	0972-8945
E-ISSN	NA
Discipline	Social Science
Subject	Social Sciences (all)
Focus Subject	General Social Sciences
UGC-CARE coverage years	from June-2019 to Present

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ISSN: 0972 – 8945

SWOT ANALYSIS OF SMALL SCALE INDUSTRIES IN KANYAKUMARI DISTRICT

Dr. R. Evalin Latha, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

Mrs. A. Franklin Ragila, Research Scholar & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

Dr. V. Ahila, Assistant Professor, Department of Commerce, Scott Christian College (Autonomous), Nagercoil.

Dr. G. Jeslin Viola Pet, Assistant Professor, Department of Commerce, Scott Christian College (Autonomous), Nagercoil.

ABSTRACT

In India small scale industries constitute the backbone of an economy with its effective, efficient, flexible, creative and innovative entrepreneurial spirit. The Indian economy during the current fiscal years has shown considerable growth performance by contributing to create livelihood opportunities to millions of people, in magnifying the export potential and in increasing the overall economic growth of the country. As a catalyst to the socio-economic transformation of the country, the SSI sector distinctly crucial in addressing the national objective of bridging the rural-urban divide, mitigate poverty and generating employment for the admirable community of the country.

Keywords: SSI sector, employment generation, export potential, socio – economic transformation

INTRODUCTION

Small scale industries (SSI) are those industries in which manufacturing, providing services, productions are done on a small scale or micro scale. Small Scale Industries (SSI) is those industries in which the manufacturing, production and rendering of services are done on a small or micro scale. These industries make a one-time investment in machinery, plant, and equipment, but it does not exceed Rs. 10 crore and annual turnover does not exceed Rs. 50 crore. In a country like India, the small-scale industries play a very important role in generating employment, improving the financial status of people, development of rural areas and removing the regional imbalances.

Small scale industries improve the growth of the country by increasing urban and rural growth. Role of Small and medium scale enterprises are to help the government in increasing infrastructures and manufacturing industries, reducing issues like pollution, slums, poverty, and many development acts. Small scale manufacturing industries and cottage industries play a very important role in the economic development of India. If any amount of capital is invested in small scale industries it will help in reducing unemployment in India and increasing self-employment. The industry is a sector in which the production of goods is a segment of the economy.

STATEMENT OF THE PROBLEM

Small scale industries are those industries in which production, manufacturing and providing the services are executed on a small or micro scale. In a country like India, the small-scale industries play a very important role in generating employment, improving the financial status of people, development of rural areas and removing the regional imbalances. Hence the present study made an attempt to analyse a study on small scale industries in kanyakumari District.

REVIEW OF LITERATURE

Mudasir Amin in his article entitled, 'Role of Small-Scale Industries in Empowering Women' concludes that, The Small-scale industries not merely play an urgent position in the improvement of Indian economy yet in addition have an awesome commitment in the progress of women workers. There are countless workers occupied with small scale industries performing distinctive sort of employments at various level.



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1	Shodhak: A Journal of Historical Research (print only)	National Organisation of Historians and Social Scientists	0302-9832	NA	from June-2019 to October-2023	Discontinued from Oct. 2023

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Vol. 50, Pt. C, Sr. 150, 2020 /Diwali 2077

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Shodhak : A Journal of Historical Research

ISSN : 0302-9832

Volume: 53, Issue: 01, No: 05, January - April: 2023

**POSITIVE AND NEGATIVE OUTCOMES OF PART-TIME JOB STUDENTS OF
NAGERCOIL MUNICIPAL CITY**

Dr. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. V. Ahila, Assistant Professor of Commerce, Scott Christian College (Autonomous), Nagercoil.

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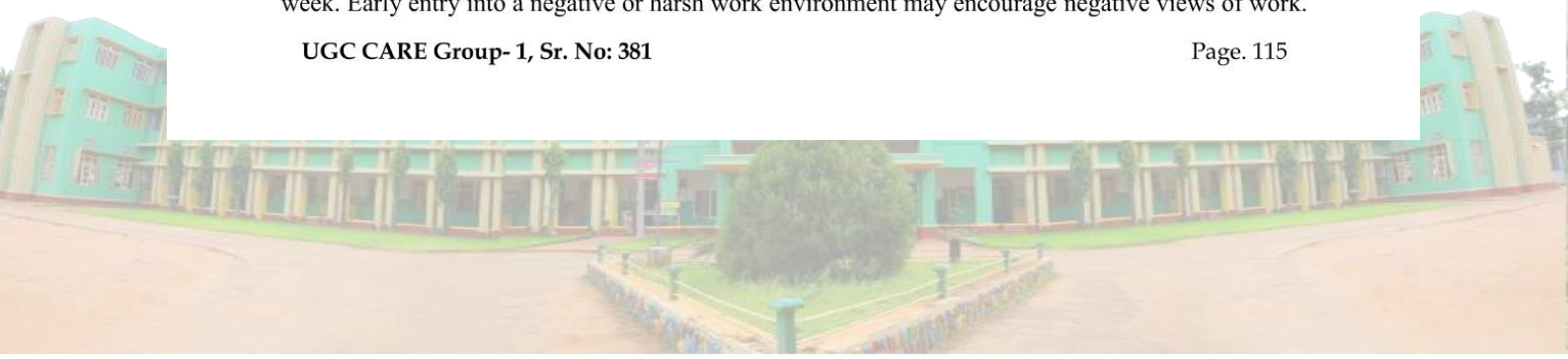
ABSTRACT

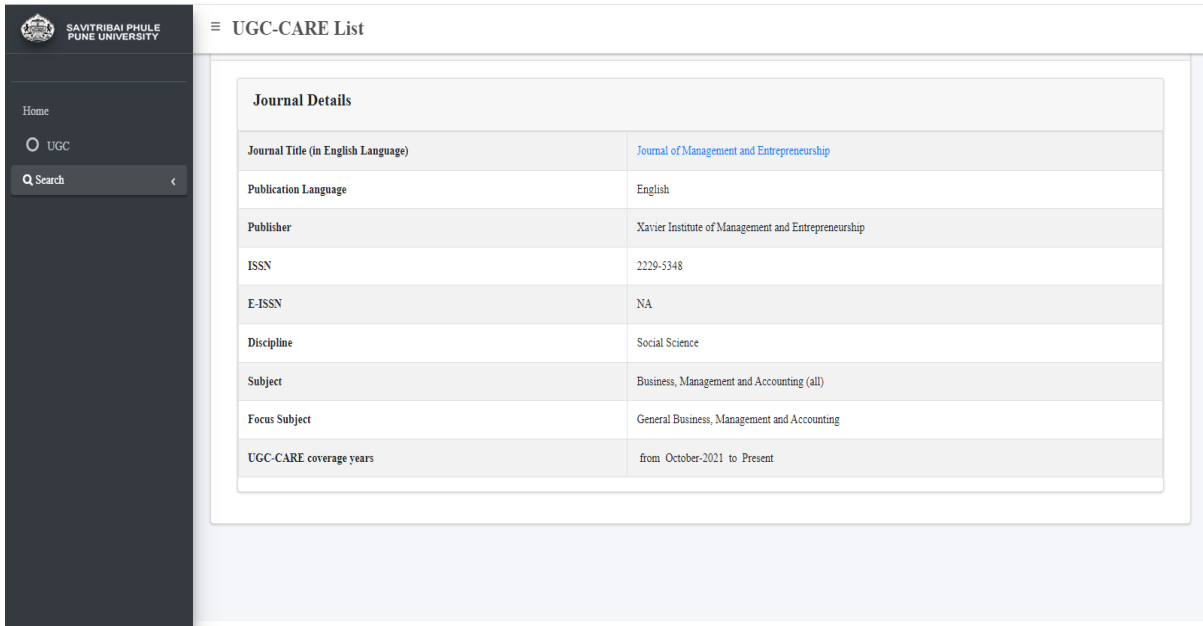
A part-time job is a form of employment which carries fewer hours in a week than a full-time employment. The workers work in shift which is often rotational. Part-time workers commonly work fewer than 34 hours per week. A part-time job is any stable and consistent paid work that takes up less than 34 hours in a week. Part-time work is suitable for those who don't want or need the exertion and/or the time commitment that a full-time job demands. Part-time jobs are usually flexible, so the work hours of a part-time employee depend entirely on the needs of their employer. Some part-time employees may be given a fixed work schedule, whilst others may have a fluid schedule that changes according to the company's needs. Some may be required to work in-office, whilst others may be asked to work from home. In this paper, the factors influencing, positive and negative outcomes of part-time job were analysed. The findings of this research paper depicts that the part-time employees have more benefits and they are independent who are not dependent on their parents. Both positive and negative outcomes are there while doing part-time jobs by the students.

Keywords: part-time, employees, students, examination....

INTRODUCTION

Part time work is the work contract for anything less than the basic full-time hours. It can be a good way of balancing work and personal commitments. According to the Ministry of Manpower, "any employee working fewer than 34 hours in a week under a contract of service has a part-time job. There are many reasons for a worker to choose part time. It may be to simply improve their work life balance or they may have caring responsibilities. During the bygone days, teenagers had been focusing only on studies, and part time jobs were not heard by teenage students. Nowadays they have been engaging in part time job, especially in developed nations. Although there are different views on the topic, it is a good idea for teenagers to take up part time jobs while they are students because they can learn about responsibility, punctuality, value of money and also learn how to work as a member in a team. They have to come to work on time every day and there is no room for procrastination. They have to maintain the inventory, update stock registers and have to be responsible in their duties. Students will realize to make a living and this experience will enrich them with confidence to face the life. Students will also make the wiser choice when buying things with the money they earned from their sweat. Students will realize how to compromise with other employees when situation arrives. They also learn about the relationship that comes from teamwork, which will then develop to a team spirit. All of these traits will benefit them in the days to come, in responding to the realities of life. There are also negative consequences of part time employment that may out-weigh the positive benefits such as: working students may not have or make time to complete their work. Employment may place constraints on the studies. Fatigue or lack of preparation for the academic activities may discourage the working teen from going to college and a job may take the place of extracurricular activities. Students who work for more than 20 hours a week have grade point averages that are lower than other students who work 10 hours or less hours a week. Early entry into a negative or harsh work environment may encourage negative views of work.





Journal Details	
Journal Title (in English Language)	Journal of Management and Entrepreneurship
Publication Language	English
Publisher	Xavier Institute of Management and Entrepreneurship
ISSN	2229-5348
E-ISSN	NA
Discipline	Social Science
Subject	Business, Management and Accounting (all)
Focus Subject	General Business, Management and Accounting
UGC-CARE coverage years	from October-2021 to Present



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UGC CARE Group 1 Journal

FACTORS INFLUENCING THE CONSUMERS PURCHASE DECISION OF ECO-FRIENDLY PRODUCTS FOR THE SUSTAINABILITY OF EARTH

Ms. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, K. K. District - 629002. franklinragila@holycrossngl.edu.in

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District - 629002.

Dr. X. Maria Muthu Shanthini, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District - 629002.

Dr. J. Rejila Jeba Deena, Head & Assistant Professor of Commerce, St. Jerome's College of Arts and Science, Ananthanadarkudy, Kanyakumari District.

Affiliated to **Manonmanium Sundaranar University**, Abisbekapatti, Tirunelveli-627012, Tamilnada, India.


ABSTRACT

Consumer is a person who uses a commodity or service. The study of consumer purchase decision is important for increasing the sales volume. Consumers are the main providers of revenue for businesses. When consumers purchase, they are providing income for the businesses and that's why purchase decision is considered as the most important tool in marketing. Eco-friendly products are the trend and a choice by millions of people and are considered as a boon in the present scenario. It also plays an important role in the consumers market. The paper draws a light into purchase decision of eco-friendly products by the consumers. A questionnaire is designed to find out the purchase decision of eco-friendly products and analyse the perception of consumers and to identify the consumer's most preferred eco-friendly product. The data has also been collected from various secondary sources. The results illustrates that majority of the consumers are aware of eco-friendly products from their friends and family. It also depicts that food safety and good taste are the most influencing factors which primarily induce the purchase decision of the respondents.

Keywords: consumers, influencing factors, eco-friendly products, purchases decision....

INTRODUCTION

Eco-friendly products are being used by the general public to protect the environment. Recent statistics shows that organic food products market is the second most important market with organic consumption growth of 20% per year and organic industry is also valued at US\$25 million. According to Pride & Ferrell, "Green marketing also alternatively known as environmental marketing and sustainable marketing refers to an organisation's efforts at designing, promoting, pricing and distributing products that will not harm environment". Many products like jute bags, bamboo utensils, CFL bulbs, hybrid cars, earthenware items, natural soaps, eco-friendly paper, paper cups, face masks, energy saving electronic products, organic foods etc. are available as environment-friendly products and marketing of such products is known as "Green Marketing".



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Rabindra Bharati University.
Email: kuntala_bhattacharyaredit@gmail.com

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The journal is fully funded by Rabindra Bharati University and therefore claims no submission or publication charges.

Publication Policy

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ISSN : 0973-0087

**STUDY ON WOMEN ENTREPRENEURSHIP IN MICRO ENTERPRISES – WITH
SPECIAL REFERENCE TO KANYAKUMARI DISTRICT**

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous),
Nagercoil.

Dr. J. Bhavani, Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil.

Ms. K. B. Steffi, Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil.

Dr. V. Ahila, Assistant Professor of Commerce, Scott Christian College (Autonomous), Nagercoil.

ABSTRACT

Traditionally our society is male dominated and women were not treated as equal partners and they were confined to four walls of the house. In modern world, women have stepped out the house to participate in all sort of activities. Women entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent. When a woman or a group of women embark on initiating, organising and managing their enterprise, they are termed as women entrepreneur. Creative activity of initiating and operating a business venture leading to economic empowerment and social betterment of women in the society can be termed as women entrepreneurship.

KEY WORDS

women entrepreneurship, challenging role, economically independent, women empowerment, women entrepreneur

INTRODUCTION

“When woman moves forward, the family moves, the village moves and the nation moves.” rightly said by Pandit Jawaharlal Nehru.

The increasing presence of women as entrepreneurs has led to significant business and economic growth in the country. Women-owned business enterprises are playing a prominent role in society by generating employment opportunities in the country, bringing in demographic shifts and inspiring the next generation of women founders. When a women or a group of women embark on initiating, organising and managing their enterprise, they are termed as women entrepreneur. Creative activity of initiating and operating a business venture leading to economic empowerment and social betterment of women in the society can be termed as women entrepreneurship. The type of micro enterprises run by women are book binding, clothing business, tailoring, fancy items, selling snacks, vegetable vending, tea stall, coconut vending, tiffin stall, flour grinding, rice muddy, flour business, petty shop, grocery shop, agarbathi and candle making, lime stone, metal business, making paper cones sheep rearing, detergent powder making, phenoyl making, liquid blue preparation, wire bag making etc

STATEMENT OF THE PROBLEM

Traditionally our society is male dominated and women were not treated as equal partners and they were confined to four walls of the house. In modern world women have stepped out the house to participate in all sort of activities. Women entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent. A strong desire to do something positive is an inbuilt quality of entrepreneurial women, who is capable of contributing values in both family and social life. Hence the present study focuses on the motivating factors and problems of women entrepreneurs in micro enterprises with special reference to Kanyakumari district.

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Emotional Intelligence and Employee Performance of non Banking Financial Institution in Kanyakumari District

S.G.Sugitha¹, Dr. E. Joseph Rubert², **Dr. C.K.Sunitha³**

¹Research Scholar (Reg.No. 19223041062020), Management Studies,
Mamommanam Sundaramar University, Tirunelveli -627 012

²Research Supervisor, Professor, Department of Management Studies, Arunachala
College of Engineering for Women, Manavilai, Kanyakumari.

³Co Guide, Assistant Professor, Department of Commerce,
Holy Cross College (Autonomous), Nagercoil

Abstract

Emotional intelligence (EI) is a critical factor in the regulation, direction, and control of people's emotional, personal, and social competencies at work. Work Performance (WP) is critical to the advancement and development of an organisation. Employees who are emotionally inept have difficulty managing their emotions. As a result, they frequently act rashly, believing that the consequences of their actions will have no effect on them or those around them. The study's main goal is to examine the relationship between emotional intelligence and employee work performance. Out of a total of 500 responses, 472 were complete. Respondents were chosen using a Snowball sampling technique rather than non-probability sampling. Employee performance is improved by the Emotional Intelligence factor. Along with general good health habits, exercising for about twenty minutes per day boosts employees' energy, sensitivity, patience, flexibility, and creativity while also improving

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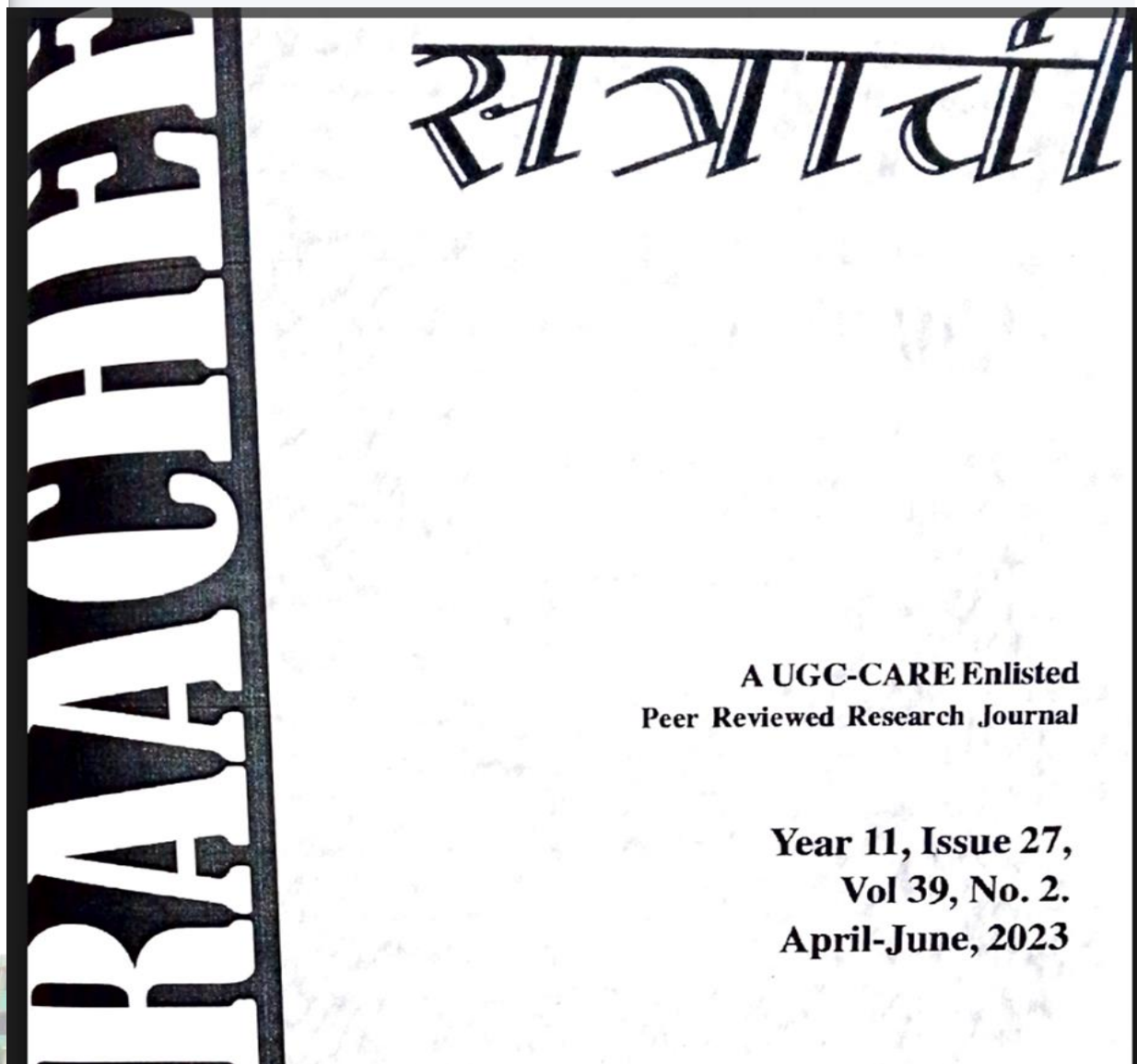
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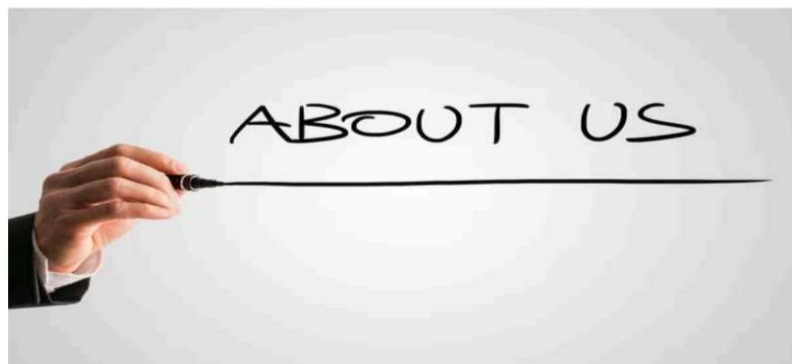
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‘सत्राची फाउंडेशन’



‘सत्राची फाउंडेशन’ कंपनी अधिनियम, 2013, सेक्शन 8 के तहत कारपोरेट मंत्रालय, भारत सरकार द्वारा मान्यता प्राप्त एक शोध संस्था है जो जनवरी, 2021 से सक्रिय है। यह संस्था मुख्य रूप से भाषा, साहित्य, शिक्षा, समाज, राजनीति एवं संस्कृति से संबंधित विषयों में शोध करने-करवाने के साथ-साथ उसे प्रकाशित करने का उद्देश्य रखती है।

बिहार के साहित्यकार एवं उनका साहित्य इस संस्था की प्राथमिकताओं में है। आने वाले दिनों में बिहार के प्रमुख साहित्यकारों की जीवनी, उनकी रचनाओं की संचयिता एवं उनके साहित्यिक वैशिष्ट्य को उद्घाटित करने वाली

Assessing the Economic Consequences of Migrant Workers During the Covid-19 Pandemic in Kanniyakumari District

- J. Jemi Rooth Kanosa¹
- Dr. J. Divya Merry Malar²

Abstract:

This research assesses the economic challenges of the COVID-19 pandemic on migrant workers in Kanniyakumari District. It examines the challenges and problems faced by migrant workers during COVID-19. This study is based on both primary and secondary data. Statistical techniques such as percentage, Garrett ranking, and mean score were utilized. The research findings highlight the prevalence of male migration and a higher rate of rural-to-urban migration among the respondents, the majority of them working as private employees originating from northern parts of India. Through mean score analysis, the study identifies limited financial resources as the most significant challenge faced by migrant workers, ranking first with a mean score of 3.68. The research concludes that migrant workers encounter significant obstacles including low wages, physical and mental exploitation, and social and economic discrimination. Additionally, the study sheds light on the limitations of the Union government in effectively and promptly addressing the severity of the COVID-19 pandemic.

Keywords: Migrant workers, Economic challenges, COVID-19 pandemic

Introduction:

The COVID-19 pandemic has had a profound and lasting impact on various sectors worldwide, affecting individuals and communities in numerous ways. Migrant workers, who leave their home states or countries in search of temporary employment opportunities, have been significantly affected. These workers play a vital role in contributing to the economic growth of both their home regions and the places they migrate to. However, the pandemic

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1. *Research Scholar (full time), Reg. No: 21113041012004, Commerce Research Centre, Holy Cross College (Autonomous), Nagercoil*
[Affiliated to Manomaniam Sundaranar University, Tirunelveli]
 2. *Assistant Professor in Commerce, Holy Cross College (Autonomous), Nagercoil.*



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Journal Details	
Journal Title (in English Language)	Anvesak
Publication Language	English
Publisher	Sardar Patel Institute of Economic and Social Research
ISSN	0378-4568
E-ISSN	NA
Discipline	Social Science
Subject	Economics, Econometrics and Finance (all)
Focus Subject	Economics, Econometrics and Finance (all)
UGC-CARE coverage years	from June-2019 to Present

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About the Journal

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Accreditation : Anvesak is included in the UGC CARE list.

Publication timing : June and December
ISSN No. : 0378-4568



"UNVEILING THE FALLOUT: ANALYZING COVID-19'S IMPACT ON GLOBAL ECONOMY AND PATHWAYS TO RECOVERY**J.Sahaya Shabu¹, Dr. E. Joseph Rubert², Dr. J Divya Merry Malar³**

1. Research Scholar, Reg No: 19223041061003, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, jjshabu@gmail.com
2. Dr. E. Joseph Rubert, Assistant Professor, Department of Business Administration, Arunachala Arts and Science College for Women, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, rubert_mba@yahoo.in
3. Dr. J. Divya Merry Malar, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, divyanvin@gmail.com

Abstract:

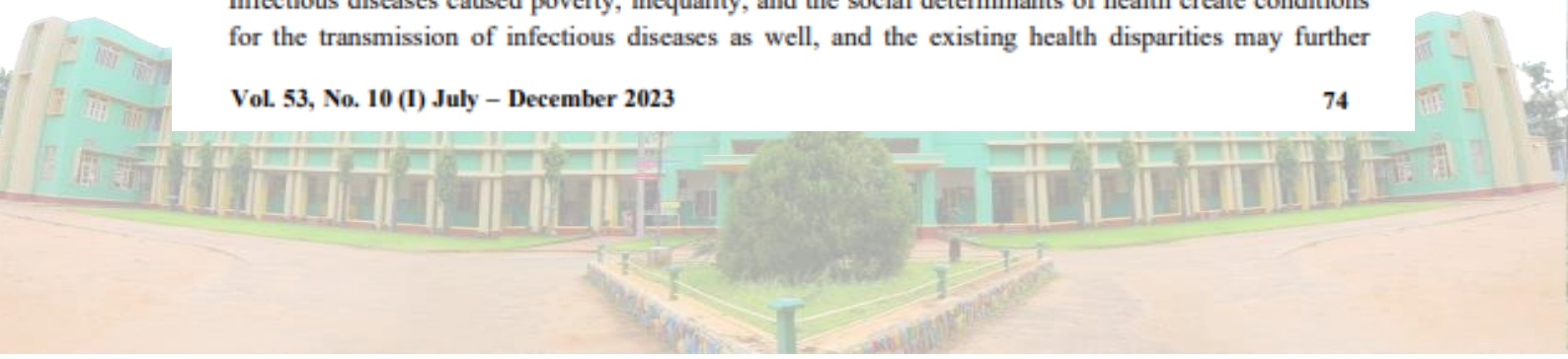
Covid-19 pandemic has distressed the global economy. Many people lost their lives and livelihood across the world. This pandemic has exposed the instability of the global economic and social structure and stressed the need for sustainable growth and development. The impact of covid-19 and the containment measures led to severe disruption in the economic activity and the social life of people across the world. Many researchers have examined the impact of covid-19 on various aspects. The objective of this paper is to analyze the various research works and articles carried out in the year 2020 and 2021 related to covid-19 impact on economy and to document and understand the impact of covid-19 on economy and the various measures adopted by the nation's to overcome the crisis. The study revealed some important facts that major economies of the world has been distressed by this crisis and the worst affected countries on the basis of death is USA, Brazil, India, Russia, Mexico, Peru, UK, Italy, Indonesia and France. Covid-19 has harmed the poor and vulnerable and pushed millions of people into poverty, lower middle income countries suffered very much and it has affect the young and economically active population disproportionately. Major industries such as airlines, agriculture, tourism, retail, construction, manufacturing, financial institutions etc were suffered during the crisis.

Key Words: Covid-19, Global Economy, Social Life, Economic distress, Lockdown

INTRODUCTION

World has witnessed many epidemics caused by infectious diseases. The Black Death was a bubonic plague pandemic that caused the death of 75–200 million people in Eurasia and North Africa, peaking in Europe from 1347 to 1351. The 1918 Spanish flu that caused to death of 17-100 million people worldwide from 1918 to 1920. The Third Plague Virus that caused to death of 12-15 million people worldwide from 1855-1960. Asian flu that caused to death of 1-4 million people worldwide from 1957-58. Hong Kong flu that caused to death of 1-4 million people worldwide from 1968-69. Third cholera that caused to death of 1 million people from 1846-60. Severe acute respiratory syndrome (SARS), Ebola, Swine Flu and AIDS/HIV are some of them. All these epidemics brought challenges for global health security, social life and economic growth of the nations.

Infectious diseases caused poverty, inequality, and the social determinants of health create conditions for the transmission of infectious diseases as well, and the existing health disparities may further



Journal Details	
Journal Title (in English Language)	Journal of Management and Entrepreneurship
Publication Language	English
Publisher	Xavier Institute of Management and Entrepreneurship
ISSN	2229-5348
E-ISSN	NA
Discipline	Social Science
Subject	Business, Management and Accounting (all)
Focus Subject	General Business, Management and Accounting
UGC-CARE coverage years	from October-2021 to Present



* Due to COVID-19

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JOURNAL OF MANAGEMENT AND ENTREPRENEURSHIP

ISSN : 2229-5348

UGC CARE Group 1 Journal

FACTORS INFLUENCING THE CONSUMERS PURCHASE DECISION OF ECO-FRIENDLY PRODUCTS FOR THE SUSTAINABILITY OF EARTH

Ms. A. Franklin Ragila, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, K. K. District - 629002. franklinragila@holycrossngl.edu.in

Dr. R. Evalin Latha, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District - 629002.

Dr. X. Maria Muthu Shanthini, Assistant Professor of Commerce, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District - 629002.

Dr. J. Rejila Jeba Deena, Head & Assistant Professor of Commerce, St. Jerome's College of Arts and Science, Ananthanadarkudy, Kanyakumari District.

Affiliated to **Manonmanium Sundaranar University**, Abisbekapatti, Tirunelveli-627012, Tamilnada, India.

ABSTRACT

Consumer is a person who uses a commodity or service. The study of consumer purchase decision is important for increasing the sales volume. Consumers are the main providers of revenue for businesses. When consumers purchase, they are providing income for the businesses and that's why purchase decision is considered as the most important tool in marketing. Eco-friendly products are the trend and a choice by millions of people and are considered as a boon in the present scenario. It also plays an important role in the consumers market. The paper draws a light into purchase decision of eco-friendly products by the consumers. A questionnaire is designed to find out the purchase decision of eco-friendly products and analyse the perception of consumers and to identify the consumer's most preferred eco-friendly product. The data has also been collected from various secondary sources. The results illustrates that majority of the consumers are aware of eco-friendly products from their friends and family. It also depicts that food safety and good taste are the most influencing factors which primarily induce the purchase decision of the respondents.

Keywords: consumers, influencing factors, eco-friendly products, purchases decision....

INTRODUCTION

Eco-friendly products are being used by the general public to protect the environment. Recent statistics shows that organic food products market is the second most important market with organic consumption growth of 20% per year and organic industry is also valued at US\$25 million. According to Pride & Ferrell, "Green marketing also alternatively known as environmental marketing and sustainable marketing refers to an organisation's efforts at designing, promoting, pricing and distributing products that will not harm environment". Many products like jute bags, bamboo utensils, CFL bulbs, hybrid cars, earthenware items, natural soaps, eco-friendly paper, paper cups, face masks, energy saving electronic products, organic foods etc. are available as environment-friendly products and marketing of such products is known as "Green Marketing".

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"Kanpur Philosophers" ISSN 2348-8301 is an international journal of Humanities, Arts, Culture, Law, Modernity and other allied disciplines of Historical and Sociological studies and research.

"Kanpur Philosophers" is biannually published in English, Hindi and Sanskrit languages by "New Archaeological and Genological Society" Kanpur India, a registered organization with wide registration no. 346-2009-2010 under societies registration act 21, 1860.

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ASSESSING THE LEVEL OF COPING STRATEGIES AND QUALITY OF LIFE AMONG PATIENTS WITH ALCOHOL DEPENDENCE DURING THEIR SOBRIETY LIFE

Dr.E.Sathia Raj, Assistant Professor,PG.Department of Social Work, Holy Cross College(Autonomous), Nagercoil-4.

Ms. J. Mary Deeba Assistant Professor,PG.Department of Social Work, Holy Cross College(Autonomous), Nagercoil-4.

Ms.S.Ponsunthari, Assistant Professor,PG.Department of Social Work, Holy Cross College(Autonomous), Nagercoil-4.

ABSTRACT

Alcoholism is a worldwide problem that continues to influence the growth of developing nations. The adverse consequences of alcohol not only affect the individuals and their family but also the society. Alcoholism continues to be a growing annoyance among all the strata of society. Alcohol is the commonly used and abused substance around the world and especially, in India. In the various States of India, the average annual consumption of alcohol is increasing every year significantly. Quality of life is a subjective component of wellbeing. Quality of life is a composite assess of physical, mental, and social wellbeing as perceived by each individual or by group of individuals, that is to say, happiness, satisfaction and gratification as it is experienced in life concerns, such as health, marriage, family, work, financial situation, self-esteem, belongingness and trust in others. Nowadays Alcohol De-addiction Centres play a vital role towards the upliftment of alcoholics. They involve in Detoxification, Intervention, Counselling, and Follow-up activities for the health of the alcoholics. The predominant objectives of this study are to analyse the socio- demographic background of the respondents, to examine the coping strategies & quality of life of the respondents, to study the role of social worker in de-addiction centres, to assess the aftercare treatment through counselling, and to provide suitable suggestions. Thus, this research makes an attempt to assessing the coping strategies & Quality of Life of patients with alcohol dependence during their sobriety. This study concentrates on the Alcoholic Dependent Individuals who are getting treatment in a De-addiction Centre in Tamil Nadu. This study is proposed to conduct in Sri Ramakrishna Seva Nilayam, Tirunelveli, a De-addiction Centre of Tamil Nadu working under Ministry of Social Justice & Empowerment. Descriptive Research Design is adopted for the study. By using Simple Random Sampling, the researcher intends to collect samples from the de-addiction centres. Based on the observations, findings and suggestions will be provided.

KEY WORDS: Alcoholism, coping strategies, Quality of Life, Sobriety, counselling and addiction, De-addiction

INTRODUCTION

Alcoholism is a worldwide problem not confirmed either to developed or to developing nations. The adverse cost of alcohol not only affect the individual users, but society as a whole.

