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The Cyclic Edge Connectivity Number of an Arithmetic Graph $G=V_n$

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Abstract: **The edge set F is a cyclic edge cut if $G - F$ is disconnected and at least two of its components contain cycle. The minimum cardinality of cyclic edge cut is called cyclic edge connectivity number and it is denoted by $\lambda_c(G)$. In this article, the cyclic edge connectivity of an arithmetic graph is studied. We categorized arithmetic graphs which are cyclically separable and not cyclically separable. Also, it is shown that for all arithmetic graphs other than $G=V_n$ where $n = p_1^{a_1} \times p_2^{a_2}$; $a_1 \geq 1$ and $a_2=1$ or $a_1=a_2=2$ is cyclically separable. Moreover, all arithmetic graphs other than $G=V_n$, $n = p_1^{a_1} \times p_2^{a_2}$; $a_1>3$ & $a_2 \geq 2$ are cyclically optimal.**

Index Terms: **arithmetic graph, cyclic edge cut, cyclic edge connectivity number, cyclically optimal.**

I. Introduction

Graph theory terminology and notation not given here; we follow [2]. The concept of cyclic edge connectivity was introduced by Tiat in the proof of the four colour theorem [11]. The authors Haining Jiang, Jixiang Meng, Yingzhi Tian studied cyclic edge connectivity of Half vertex transitive graphs in [4]. The definition of an arithmetic graph is studied from [12]. [8]The arithmetic graph V n is defined as a graph with its vertex set is the set consists of the divisors of n (excluding 1) where n is a positive integer and $n = p_1^{a_1} \times p_2^{a_2} \times \ldots\ldots \times p_r^{a_r}$ where pi's are distinct primes and ai's≥ 1 and two distinct vertices a, b which are not of the same parity are adjacent in this graph if (a, b)=p_i, for some i , $1 \leq i \leq r$. The vertices a and b are said to be of the same parity if both a and b are the powers of the same prime, for instance $a = p^3$, $b = p^4$. In [5] the connectivity number of an arithmetic graph is studied by L. Mary Jenitha and S. Sujitha. Later the average connectivity of the same graph is discussed by the same authors in [6]. As well as the concepts of connectivity of complement of an arithmetic graph is also studied by same authors in [7]. Also, various authors studied different parameters of an arithmetic graph. In this paper we investigated the cyclic edge connectivity concepts for an arithmetic graph $G = V_n$. The following theorems are used in sequel.

Definition 1.1. [4] The edge set F is a cyclic edge cut if $G - F$ is disconnected and at least two of its components contains cycle. The minimum cardinality of cyclic edge cut is called cyclic edge connectivity number and it is denoted by $\lambda_c(G)$.

Theorem 1.2. [10] For an arithmetic graph $G = V_n$, $n = p_1^{a_1} \times p_2^{a_2} \times \ldots\ldots \times p_r^{a_r}$ then the number of vertices *of* G *is* $|V| = \prod_{i=1}^{r}(a_i + 1) - 1$.

Theorem 1.3. [6] For an arithmetic graph $G = V_n$, $n = p_1^{a_1} \times p_2^{a_2}$ where p_1 and p_2 are distinct primes, a_1, $a_2 \geq 1$ then $\mathcal{E} = 4a_1a_2 - a_1 - a_2$, where $\mathcal{E}$ is the size of the graph G.

Theorem 1.4. [6] For an arithmetic graph $G = V_n$, $n = p_1^{a_1} \times p_2^{a_2}$ where p_1 and p_2 are distinct primes, a_1, $a_2 \geq 1$ then G is a bipartite graph.

Theorem 1.5. [6] Let $G=V_n$ be an arithmetic graph $n = p_1^{a_1} \times p_2^{a_2} \times \ldots\ldots \times p_r^{a_r}$ for any vertex $u = \prod_{i \in B} p_i^{\alpha_i}$ where $B \subseteq \{1,2,\ldots,r\}$, $1 \leq \alpha_i \leq a_i \forall i \in B$

(1) If u=p_j where j$\in \{1,2,\ldots,r\}$, then
$\deg(u) = \left[a_j \prod_{i=1, i\neq j}^{r}(a_i + 1) - 1\right] - |a_j - 1|$.

(2) If $u = p_i^{\alpha_i}$ $1 \leq \alpha_i \leq a_i \forall i \in B$, then
$\deg(u) = \left[\prod_{i=1, i\in B}^{r}(a_i + 1)\right] - 1$.

(3) If $u = \prod_{i \in B} p_i^{\alpha_i}$, $|B| \geq 2$, $1 < \alpha_i \leq a_i \forall i \in B$ then $\deg(u) = |B| \prod_{i=1, i\in B}^{r}(a_i + 1)$.

(4) If $u = \prod_{i \in B} p_i^{\alpha_i}$, $\alpha_i = 1$ for some i$\in B' \subseteq B$, then
$\deg(u) = [|B - B'| + \sum_{i \in B'} a_i] \prod_{i=1, i\in B}^{r}(a_i + 1)$ where B is the number of prime products in u, B' is the number of primes

* L. Mary Jenitha

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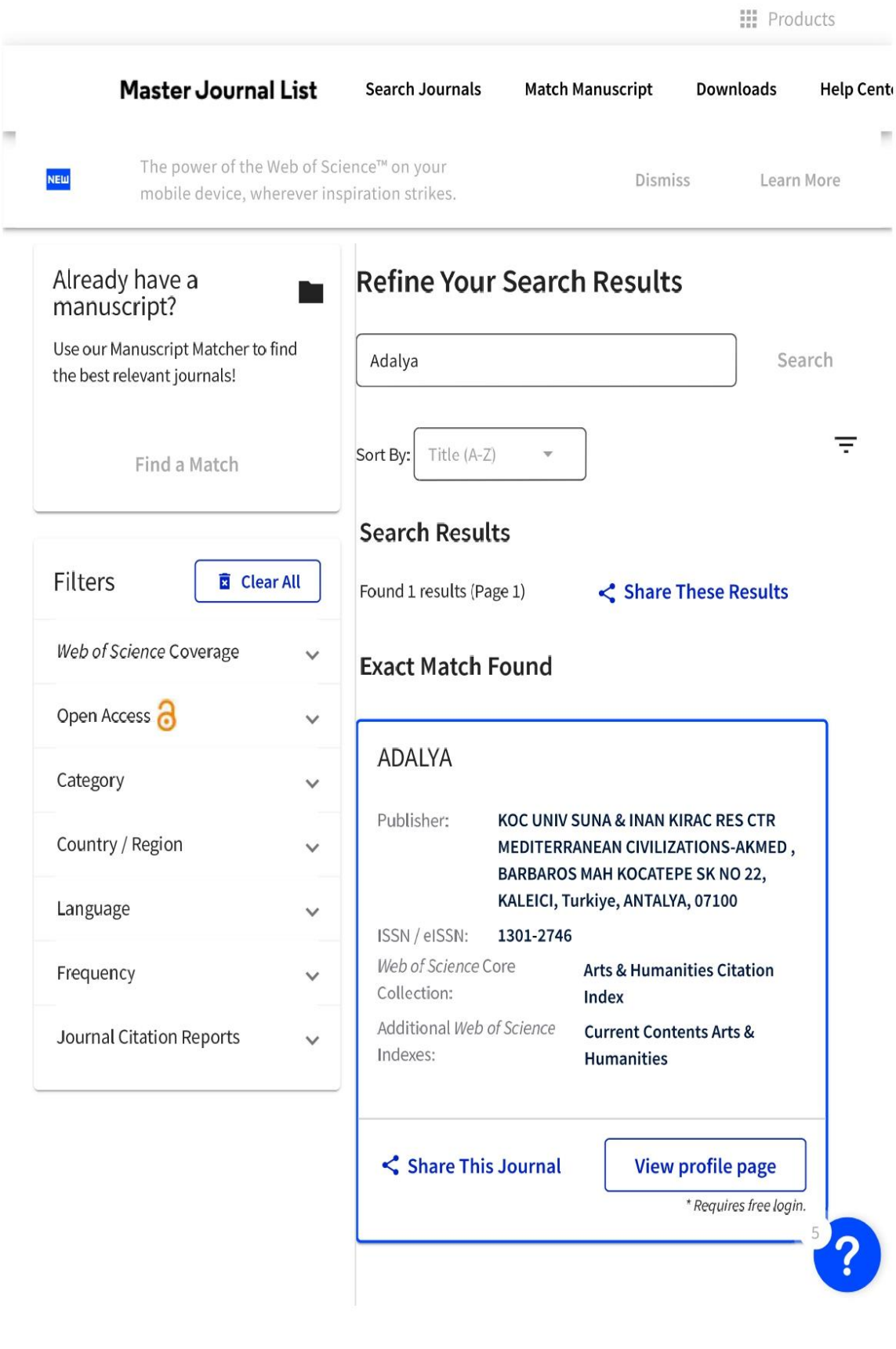
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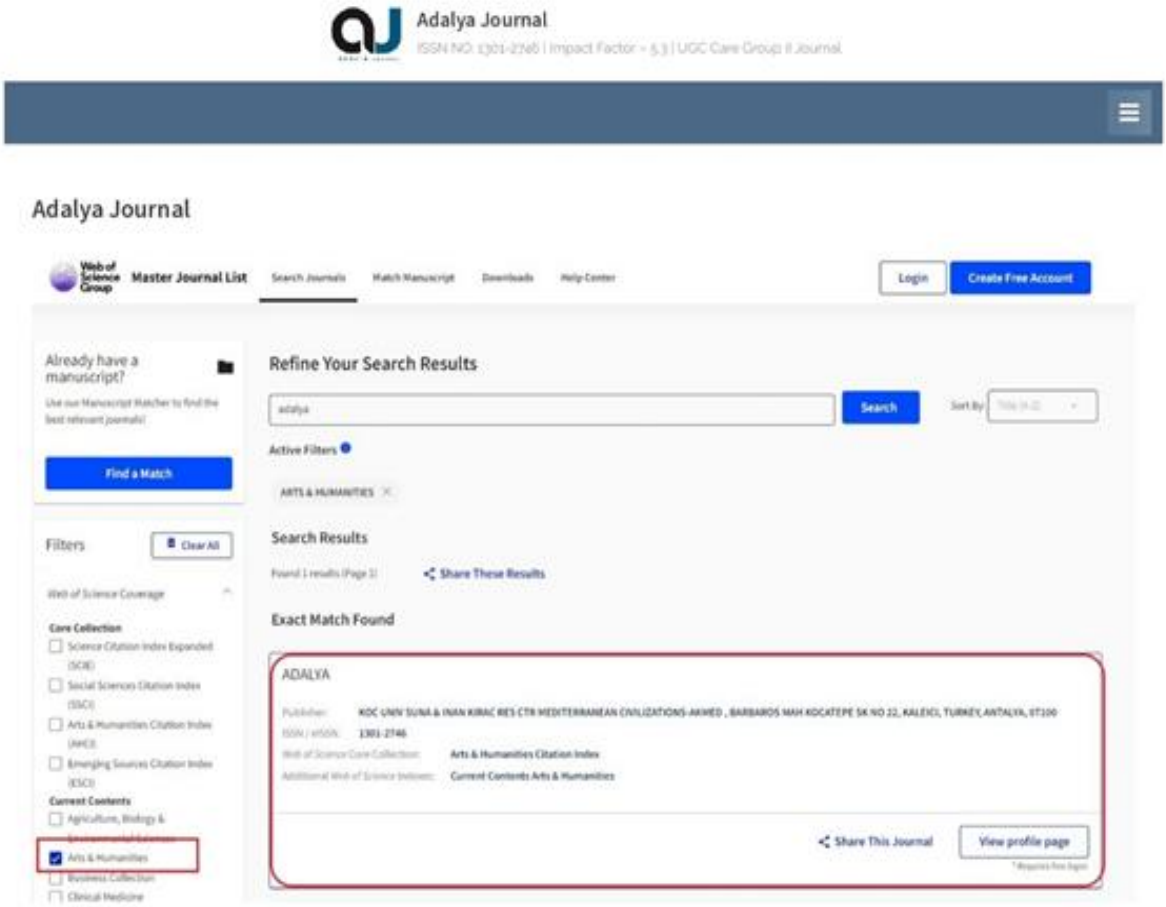

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THE MINIMUM DOMINATING ENERGY OF STAR RELATED GRAPHS

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[1], [2] & [3] Kanyakumari District, Tamilnadu, India.

Abstract : Chandrasekhar Adiga et.al., introduced the minimum covering energy of a graph which depends on its particular minimum cover. M.R. Rajesh Kanna et al defined the minimum dominating energy, $E_D(G)$ of some families of graphs such as, Star graph, Complete graph, Crown graph and Cocktail graphs. Motivated by this, we obtained the minimum dominating energy of star related graphs.

AMS Subject Classification: 05C50, 05C69

Keywords : minimum dominating set, minimum dominating matrix, minimum dominating eigenvalues, minimum dominating energy of a graph.

1. Introduction

Let G = (V,E) be a simple undirected graph. I. Gutman [3] introduced the concept of energy of a graph in the year 1978. Let G be a graph with n vertices and m edges and let the adjacency matrix of the graph be $R = (r_{ij})$. $\omega_1, \omega_2, \cdots, \omega_m$ assumed in non increasing order, are the eigenvalues of the graph G. The eigenvalues of G are real with sum equal to zero. Since, A is real symmetric. The energy $E(G)$ of G is defined to be the sum of the absolute values of the eigenvalues of G. i.e., $E(G) = \sum_{i=1}^{m} |\omega_i|$ [4,5]

2. The Minimum Dominating Energy

Definition 2.1: A **dominating set** in a graph G is a subset M of V(G) such that each element of V(G) – M is adjacent to at least one vertex of M.

Equivalently N[M] = V.

If M is a dominating set of a graph G, then every super set M' ⊃ M is also a dominating set.

Definition 2.2:[6] The **minimum dominating set** in a graph G is a dominating set of minimum cardinality. This set is also called γ - set.

Definition 2.3:[6]The **domination number** of G, denoted by γ(G), is the minimum cardinality of all dominating sets of G that is γ(G) = min { | M | / M ⊆ V, N[M] = V }

Definition 2.4:[6] Let G be a simple graph of order n with vertex set V = { $t_1, t_2, \ldots, t_m$ } and edge set E. Let M be a minimum dominating set of the graph G. The **minimum dominating matrix** of G is the m × m matrix defined by $R_{Md}(G) = (r_{ij})$, where

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THE MONOPHONIC GLOBAL DOMINATION NUMBER OF A GRAPH

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Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli-627 012, Tamil Nadu, India

Abstract. A set $M \subseteq V$ is said to be a monophonic global dominating set of G if M is both a monophonic set and a global dominating set of G. The minimum cardinality of a monophonic global dominating set of G is the monophonic global domination number of G and is denoted by $\overline{\gamma}_m(G)$. A monophonic global dominating set of cardinality $\overline{\gamma}_m(G)$ is called a $\overline{\gamma}_m$-*set* of G. The monophonic global domination number of certain classes of graphs are determined. It is proved that $2 \leq \overline{\gamma}_m(G) \leq \overline{\gamma}_g(G) \leq n$, where $\overline{\gamma}_g(G)$ is a geodetic global domination number of a G. It is shown that for every pair of positive integers a and b with $2 \leq a \leq b$, there exists a connected graph G such that $\overline{\gamma}_m(G) = a$ and $\overline{\gamma}_g(G) = b$.

Keywords: monophonic global domination number; global domination number; monophonic number; domination number.

2010 AMS Subject Classification: 05C38, 05C69, 05C12.

1. INTRODUCTION

By a graph $G = (V, E)$, we mean a finite,undirected connected graph without loops or multiple edges. The *order* and *size* of G are denoted by m and n respectively. For basic graph theoretic terminology, we refer to [2]. Two vertices u and v are said to be *adjacent* if uv is

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Design Engineering (Toronto)

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The Minimum Dominating Seidel Energy of Some Graphs

V. M. Arul Flower Mary, Victoria Jayafin Nisha S L, M. Regees

Keywords: minimum dominating set, minimum dominating seidel matrix, minimum dominating seidel eigenvalues, minimum dominating seidel energy of a graph.

ABSTRACT

M.R. Rajesh Kanna et al defined the minimum dominating seidel energy, $E_{Sd}(G)$ of some families of graphs such as, Star graph, Complete graph, Crown graph and Cocktail graphs. Motivated by this, we obtained the minimum dominating seidel energy of Book graph and Friendship graphs. Relation between domination number, energy and rank of minimum dominating seidel matrix of graphs are also established.

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THE EDGE GEODETIC VERTEX COVERING NUMBER OF A GRAPH

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Abstract. For a connected graph G of order $n \geq 2$, a set $S \subseteq V(G)$ is an *edge geodetic vertex cover* of G if S is both an edge geodetic set and a vertex covering set of G. The minimum cardinality of an edge geodetic vertex cover of G is defined as the *edge geodetic vertex covering number* of G and is denoted by $g_{1a}(G)$. Any edge geodetic vertex cover of cardinality $g_{1a}(G)$ is a g_{1a} - set of G. Some general properties satisfied by edge geodetic vertex cover are studied. The edge geodetic vertex covering number of several classes of graphs are determined. Connected graphs of order n with edge geodetic vertex covering number 2 is characterized. A few realization results are given for the parameter $g_{1a}(G)$.

Keywords: geodesic; edge geodetic set; vertex covering set; edge geodetic vertex cover; edge geodetic vertex covering number.

2010 AMS Subject Classification: 05C12.

1. INTRODUCTION

By a graph $G = (V, E)$, we mean a finite undirected connected graph without loops and multiple edges. The *order* and *size* of G are denoted by n and m, respectively. For basic graph

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ISSN: 0716-0917 E-ISSN: 0717-6279

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The edge-to-edge geodetic domination number of a graph

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Abstract:

Let $G = (V, E)$ be a connected graph with at least three vertices. A set $S \subseteq E(G)$ is called an edge-to-edge geodetic dominating set of G if S is both an edge-to-edge geodetic set of G and an edge dominating set of G. The edge-to-edge geodetic domination number $\gamma_{gee}(G)$ of G is the minimum cardinality of its edge-to-edge geodetic dominating sets. Some general properties satisfied by this concept are studied. Connected graphs of size m with edge-to-edge geodetic domination number 2 or m or $m-1$ are characterized. We proved that if G is a connected graph of size $m \geq 4$ and $\bar{G}$ is also connected, then $4 \leq \gamma_{gee}(G) + \gamma_{gee}(\bar{G}) \leq 2m-2$. Moreover we characterized graphs for which the lower and the upper bounds are sharp. It is shown that, for every pair of positive integers a, b with $2 \leq a \leq b$, there exists a connected graph G with $g_{ee}(G) = a$ and $\gamma_{gee}(G) = b$. Also it is shown that, for every pair of positive integers a and b with $2 < a \leq b$, there exists a connected graph G with $\gamma_e(G) = a$ and $\gamma_{gee}(G) = b$, where $\gamma_e(G)$ is the edge domination number of G and $g_{ee}(G)$ is the edge-to-edge geodetic number of G.

Keywords: Edge-to-edge geodetic domination number; Edge-to-edge geodetic number; Edge domination number; Domination number; Geodetic number

MSC (2020): 05C69, 05C12.

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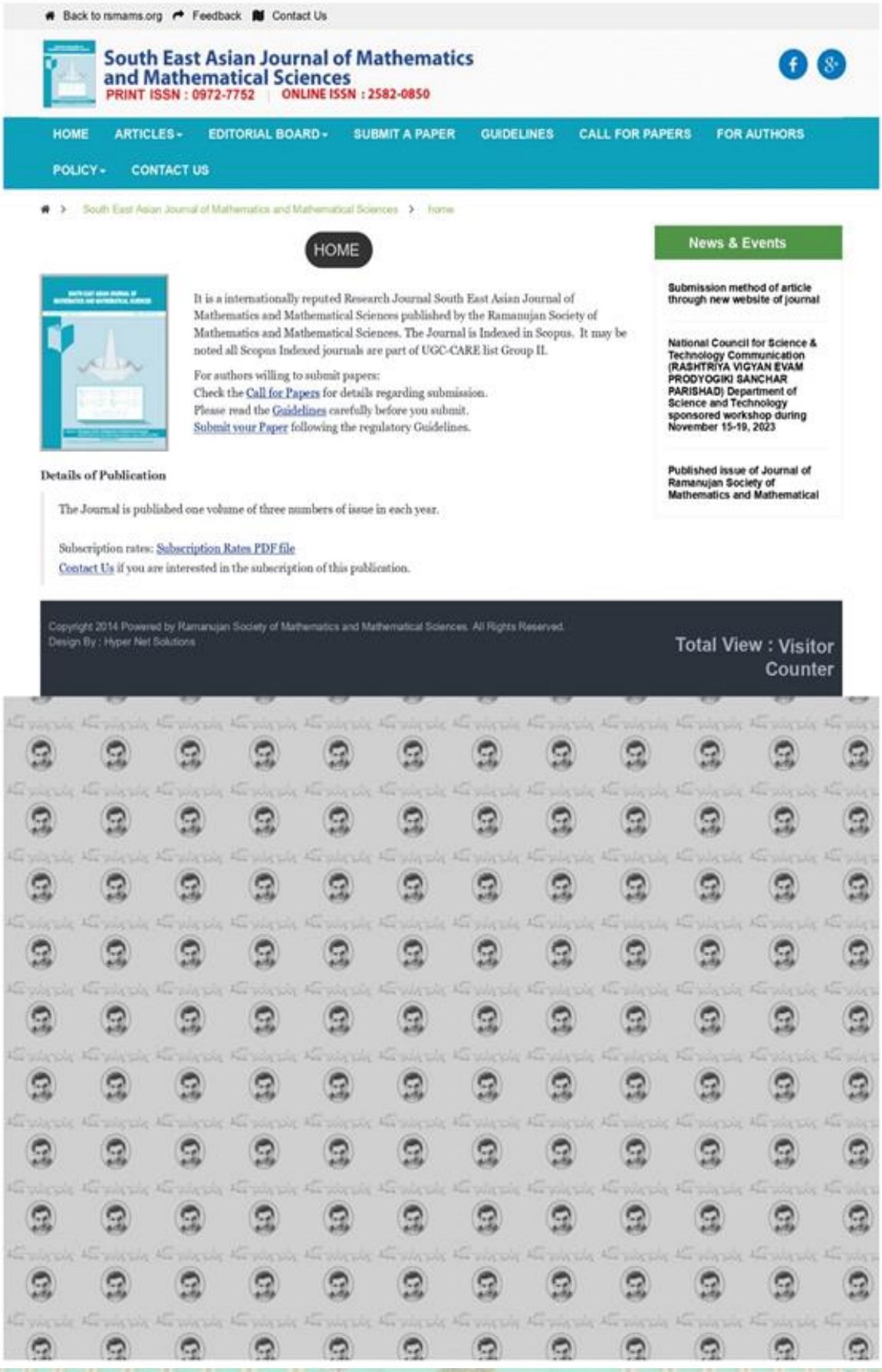

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THE CONNECTED GEODETIC VERTEX COVERING NUMBER OF A GRAPH

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Abstract: For a connected graph G of order $n \geq 2$, a set $S \subseteq V(G)$ is a *geodetic vertex cover* of G if S is both a geodetic set and a vertex cover of G. The minimum cardinality of a geodetic vertex cover of G is defined as the *geodetic vertex covering number* of G and is denoted by $g_a(G)$. Any geodetic vertex cover of cardinality $g_a(G)$ is a g_a- set of G. A *connected geodetic vertex cover* of G is a geodetic vertex cover S such that the subgraph $G[S]$ induced by S is connected. The minimum cardinality of a connected geodetic vertex cover of G is the *connected geodetic vertex covering number* of G and is denoted by $g_{ac}(G)$. A connected geodetic vertex cover of cardinality $g_{ac}(G)$ is called a g_{ac} - set of G. Some general properties satisfied by connected geodetic vertex covering sets are studied. The connected geodetic

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10.22199/issn.0717-6279-4258

k-super cube root cube mean labeling of graphs

V. Princy Kala
Holy Cross College (Autonomous), India
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Abstract

Consider a graph G with $|V(G)| = p$ and $|E(G)| = q$ and let $f : V(G) \to \{k, k+1, k+2, \ldots p+q+k-1\}$ be an injective function. The induced edge labeling f^* for a vertex labeling f is defined by $f^*(e) = \left\lfloor \sqrt[3]{\frac{f(u)^3+f(v)^3}{2}} \right\rfloor$ or $\left\lceil \sqrt[3]{\frac{f(u)^3+f(v)^3}{2}} \right\rceil$ for all $e = uv \in E(G)$ is bijective. If $f(V(G)) \cup \{f^*(e) : e \in E(G)\} = \{k, k+1, k+2, \ldots, p+q+k-1\}$, then f is called a k-super cube root cube mean labeling. If such labeling exists, then G is a k-super cube root cube mean graph. In this paper, I introduce k-super cube root cube mean labeling and prove the existence of this labeling to the graphs viz., triangular snake graph T_n, double triangular snake graph $D(T_n)$, Quadrilateral snake graph Q_n, double quadrilateral snake graph $D(Q_n)$, alternate triangular snake graph $A(T_n)$, alternate double triangular snake graph $AD(T_n)$, alternate quadrilateral snake graph $A(Q_n)$, & alternate double quadrilateral snake graph $AD(Q_n)$.

Keywords: *k-super cube root cube mean labeling, k-super cube root cube mean graph, snake graph, alternate snake graph.*

MSC(2020): *05C78.*

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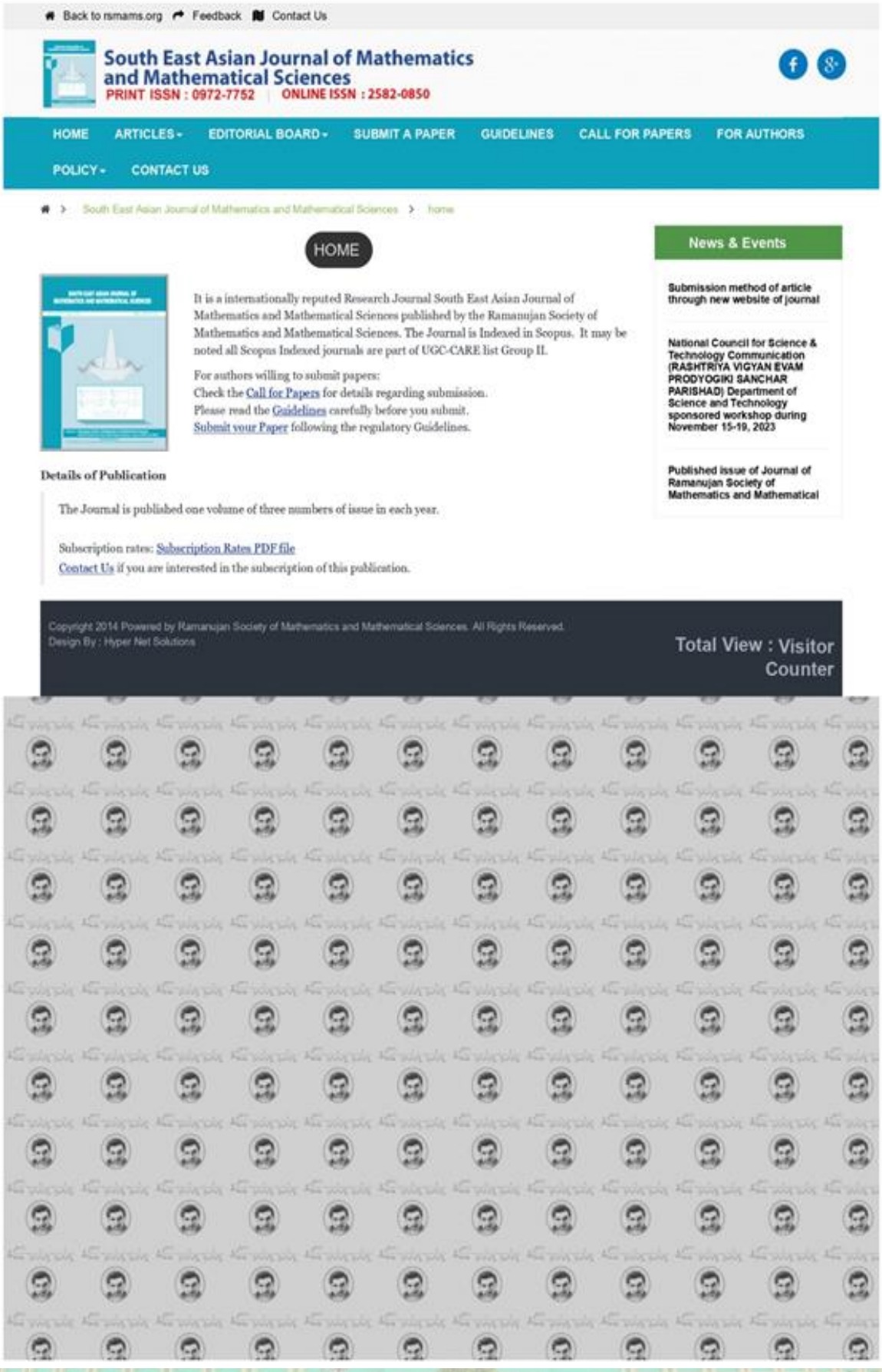

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THE CONNECTED GEODETIC VERTEX COVERING NUMBER OF A GRAPH

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Abstract: For a connected graph G of order $n \geq 2$, a set $S \subseteq V(G)$ is a *geodetic vertex cover* of G if S is both a geodetic set and a vertex cover of G. The minimum cardinality of a geodetic vertex cover of G is defined as the *geodetic vertex covering number* of G and is denoted by $g_a(G)$. Any geodetic vertex cover of cardinality $g_a(G)$ is a g_a- set of G. A *connected geodetic vertex cover* of G is a geodetic vertex cover S such that the subgraph $G[S]$ induced by S is connected. The minimum cardinality of a connected geodetic vertex cover of G is the *connected geodetic vertex covering number* of G and is denoted by $g_{ac}(G)$. A connected geodetic vertex cover of cardinality $g_{ac}(G)$ is called a g_{ac} - set of G. Some general properties satisfied by connected geodetic vertex covering sets are studied. The connected geodetic

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THE EDGE GEODETIC VERTEX COVERING NUMBER OF A GRAPH

J. ANNE MARY LEEMA[1,*], V.M. ARUL FLOWER MARY[1], P. TITUS[2]

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[2]Department of Science and Humanities, University College of Engineering Nagercoil, Anna University: Tirunelveli Region, Tirunelveli-627007, Tamilnadu, India

Abstract. For a connected graph G of order $n \geq 2$, a set $S \subseteq V(G)$ is an *edge geodetic vertex cover* of G if S is both an edge geodetic set and a vertex covering set of G. The minimum cardinality of an edge geodetic vertex cover of G is defined as the *edge geodetic vertex covering number* of G and is denoted by $g_{1a}(G)$. Any edge geodetic vertex cover of cardinality $g_{1a}(G)$ is a g_{1a} - set of G. Some general properties satisfied by edge geodetic vertex cover are studied. The edge geodetic vertex covering number of several classes of graphs are determined. Connected graphs of order n with edge geodetic vertex covering number 2 is characterized. A few realization results are given for the parameter $g_{1a}(G)$.

Keywords: geodesic; edge geodetic set; vertex covering set; edge geodetic vertex cover; edge geodetic vertex covering number.

2010 AMS Subject Classification: 05C12.

1. INTRODUCTION

By a graph $G = (V, E)$, we mean a finite undirected connected graph without loops and multiple edges. The *order* and *size* of G are denoted by n and m, respectively. For basic graph

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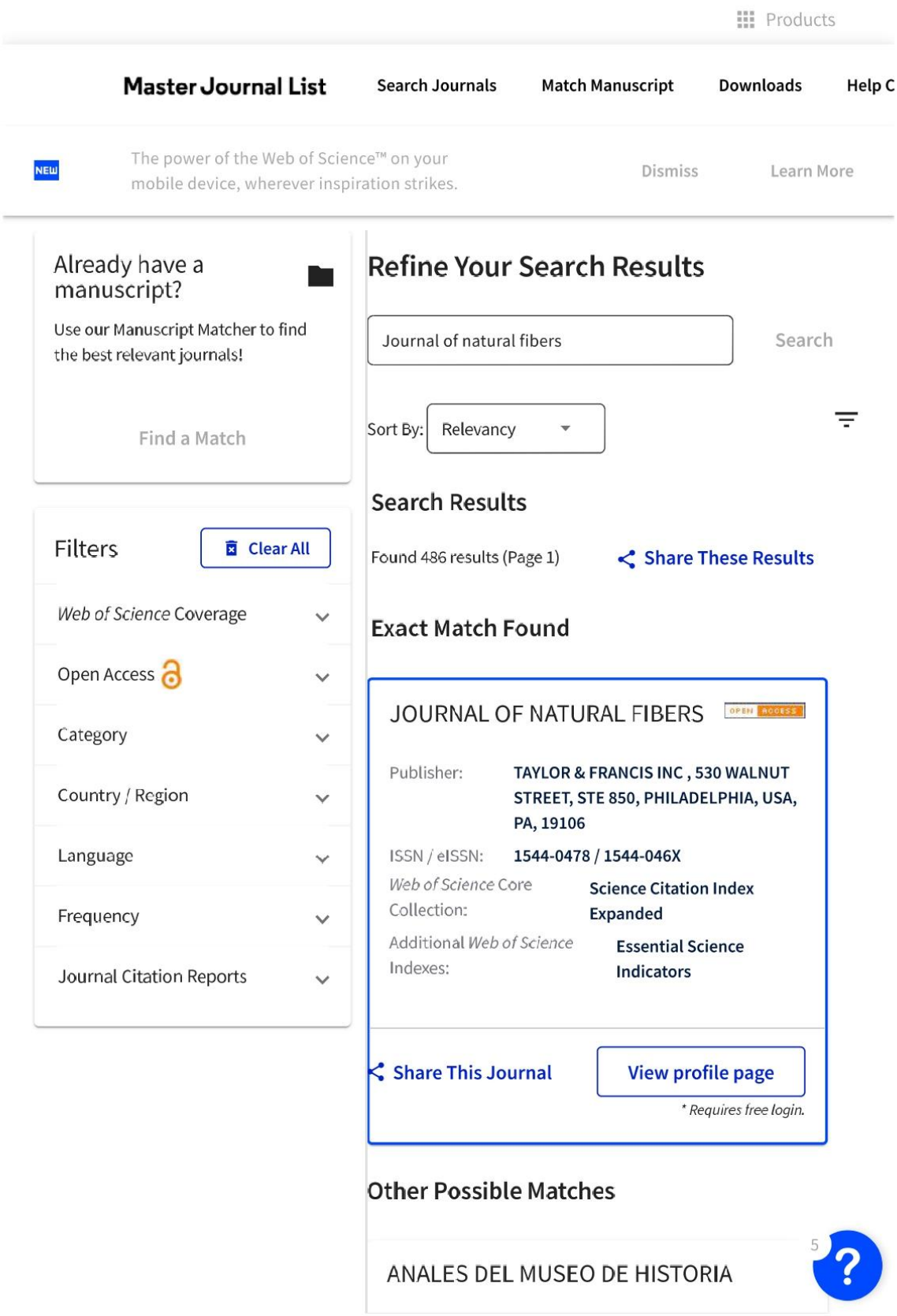
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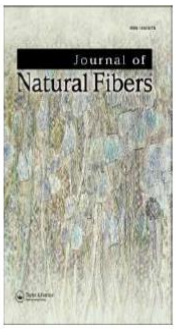

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ABSTRACT

Natural fibers are being extensively used in recent technological and structural applications due to the need for biodegradable materials. This paper deals with extraction of new cellulosic fiber from the stem of *Nelumbo nucifera* (*Nn*) (lotus) and the investigations *via* physical, structural and thermal properties on the alkali-treated fiber were carried out. The XRD analysis of the *Nn* fiber provides the crystallinity index of about 52.53% that implies its high crystalline structure and own associated strength. The FTIR analysis proves the presence of alcoholic and alpha keto carboxylic acid in *Nn* fiber. Thermal stability of *Nn* composite is found around 210°C and the TGA results prove that the extracted as well as alkali-treated fibers provide a good reinforcement to the matrix, which can be well synthesized mechanically improved biocomposites. Test samples of three different weight % of *Nn* fiber with the epoxy basement are designated as L10, L15 and L20 to measure the tensile and flexural strength. Test sample with L20 as weight % exhibits better Young's and flexural modulus. Alkali treated *Nn* composite is an important candidate for the natural fiber reinforcement and such a category can serve as a good material for household applications.

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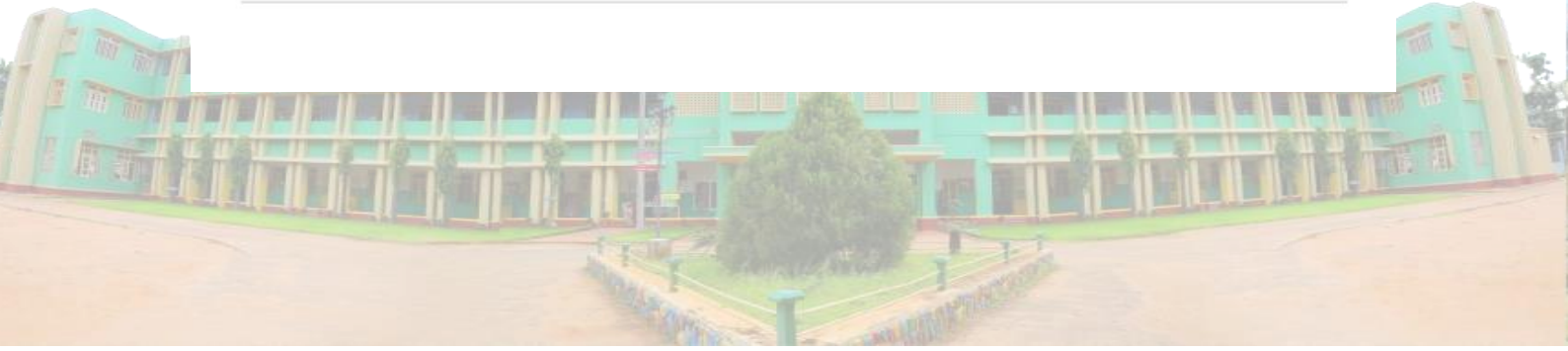

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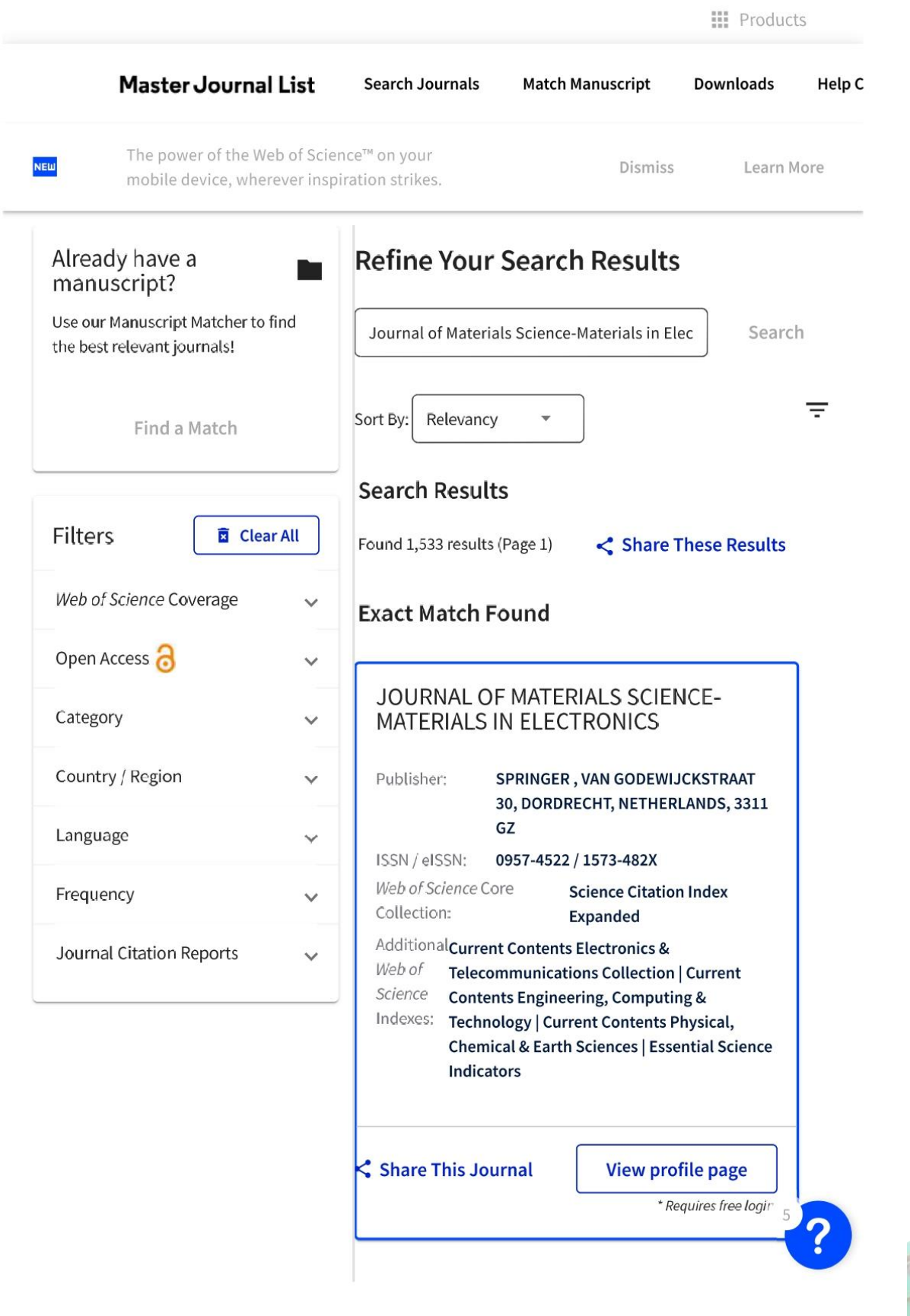
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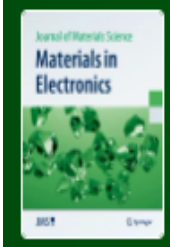

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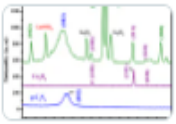

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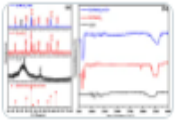

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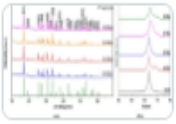
Study of Ge-doped garnet type $Li_7La_3Zr_2O_{12}$ as solid electrolyte for Li-ion battery application



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Surface-enhanced Raman spectroscopy studies of orderly arranged silica nanospheres-synthesis, characterization and dye detection

| Published: 29 September 2021

| Volume 32, pages 26596–26607, (2021) Cite this article

Journal of Materials Science: Materials in Electronics

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M. Ramuthai, Shaik Habibuddin, S. Sonia, Naidu Dhanpal Jayram, K. Deva Arun Kumar, Mohd. Shkir, H. Algarni & S. AlFaify

Abstract

Silica nanospheres have been explored much for drug delivery, photocatalysis, sensors and energy storage applications. It also acts as a template for Surface-Enhanced Raman Spectroscopy (SERS) substrates. Uniform nanostructures at low cost with high reproducibility are the major challenges in SERS substrate fabrication. In the present work, silica nanospheres were synthesized using stober method and deposited on to glass slides using Vertical deposition techniques. Different size/thickness of Silver (Ag) nanoparticles were deposited onto silica thin films using sputter deposition technique. The monodispersity of silica nanospheres and size of silver nanoparticles (10 nm, 20 nm and 30 nm) were confirmed by FESEM analysis. The structural properties were confirmed through XRD. UV–Vis analysis revealed that the plasmonic properties of $Ag@SiO_2$ give high surface plasmons for 30 nm thickness of silver. The binding energy of $Ag@SiO_2$ confirmed through XPS spectrum. The fabricated SERS substrates were used to detect Rhodamine 6G (R6G), Methylene blue (MB), Methylene violet (MV) and Methyl orange dyes as an analyte molecule with a limit of detection at about 10^{-11} mol/L. The addition of SiO_2 nanospheres decreases the Ag oxidation rate and increases their stability. The maximum enhancement factor (1.5×10^7) achieved for 30nm thickness of $Ag@SiO_2$. The results and technique establish the potential applications and reproducible SERS substrate.

Scopus Preview

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: Engineering: Electrical and Electronic Engineering | Physics and Astronomy: Condensed Matter Physics | Physics and Astronomy: Atomic and Molecular Physics, and Optics | Materials Science: Electronic, Optical and Magnetic Materials

Source type: Journal

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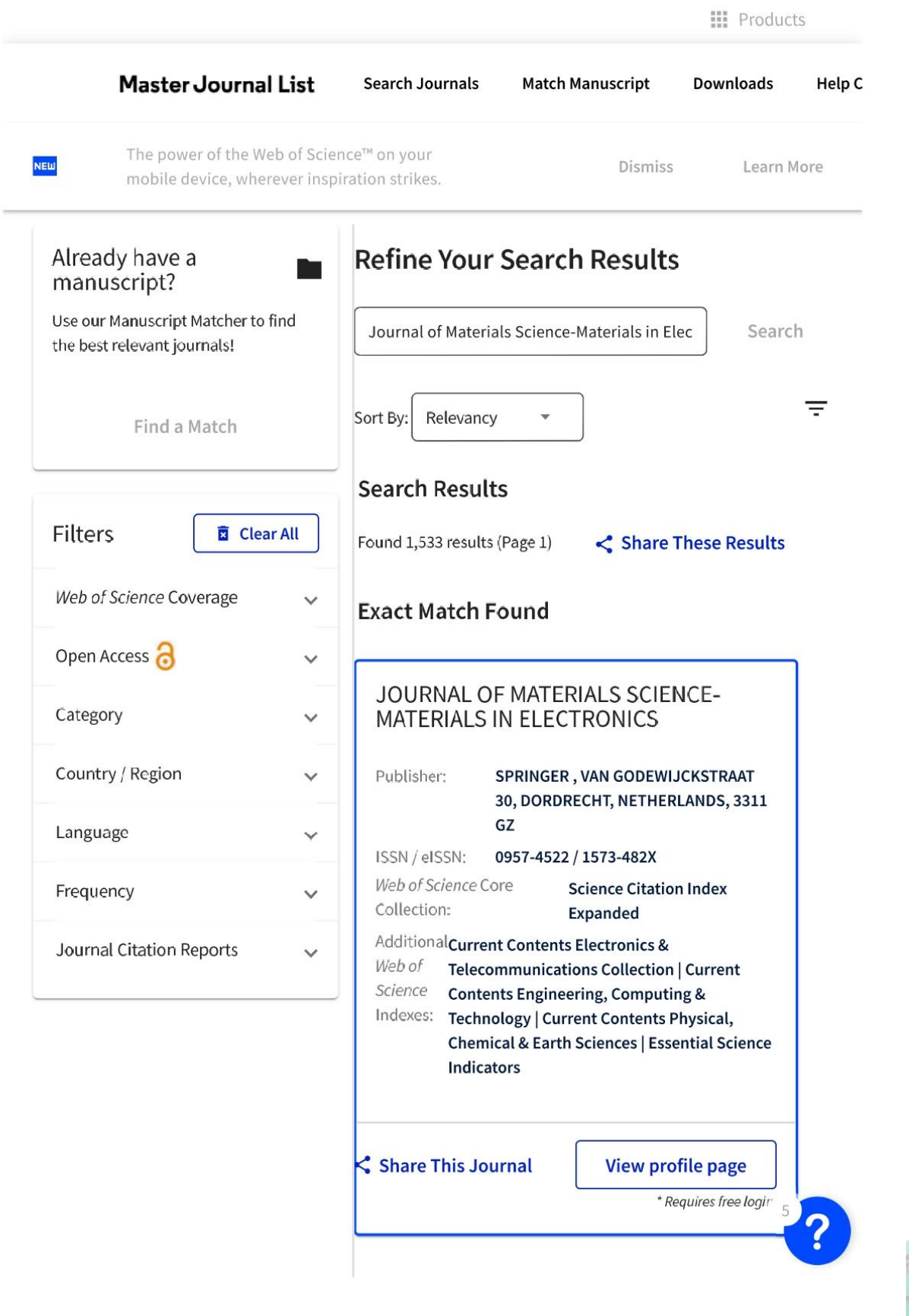
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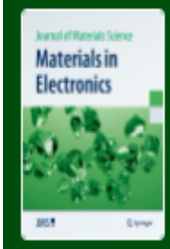

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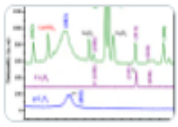

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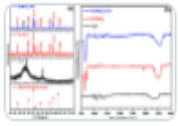
Facile synthesis of perovskite $ZnMnO_3$ composite with reduced graphene oxide via solvothermal route for supercapacitor applications



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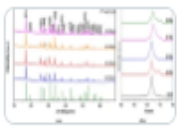
Study of Ge-doped garnet type $Li_7La_3Zr_2O_{12}$ as solid electrolyte for Li-ion battery application



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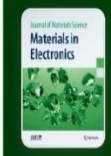
Enhanced linear and non-linear optical activity of lead onto L-threonine cadmium acetate crystal

| Published: 02 May 2021

| Volume 32, pages 13261–13268, (2021) Cite this article



M. Abila Jeba Queen, K. C. Bright, S. Mary Delphine & P. Aji Udhaya

Abstract

Herein, we describe the growth and characterization of new crystal lead-doped L-threonine cadmium acetate (LTCA). The supramolecular coordination compounds are crystallized by slow evaporation technique at ambient temperature. The X-ray diffraction techniques confirm monoclinic crystal system. The presence of lead and the LTCA lattices were identified using EDAX analysis. L-Threonine amino acids have unique properties like zwitterionic nature and molecular chirality, which improve the optical properties of the lead-doped crystal. The linear optical parameters such as optical band gap and refractive indexes are estimated at lower cutoff wavelength from UV–Vis analysis. The variation of dielectric constant, dielectric loss with frequency is studied using LCR meter. Due to the electropositive character of lead the static permittivity increases. Magnetic behavior changes to paramagnetic nature due to the inclusion of lead. TG/DTA analysis suggests that the crystal is thermally stable up to 135.32 °C. Using Nd-YAG laser, the NLO property was studied and the lead-doped LTCA crystal shows higher SHG efficiency than the LTCA crystal.

Scopus Preview

Source details

Phosphorus, Sulfur and Silicon and the Related Elements

Scopus coverage years: from 1989 to Present

Publisher: Taylor & Francis

ISSN: 1042-6507 E-ISSN: 1563-5325

Subject area: Chemistry: Inorganic Chemistry | Chemistry: Organic Chemistry | Biochemistry, Genetics and Molecular Biology: Biochemistry

Source type: Journal

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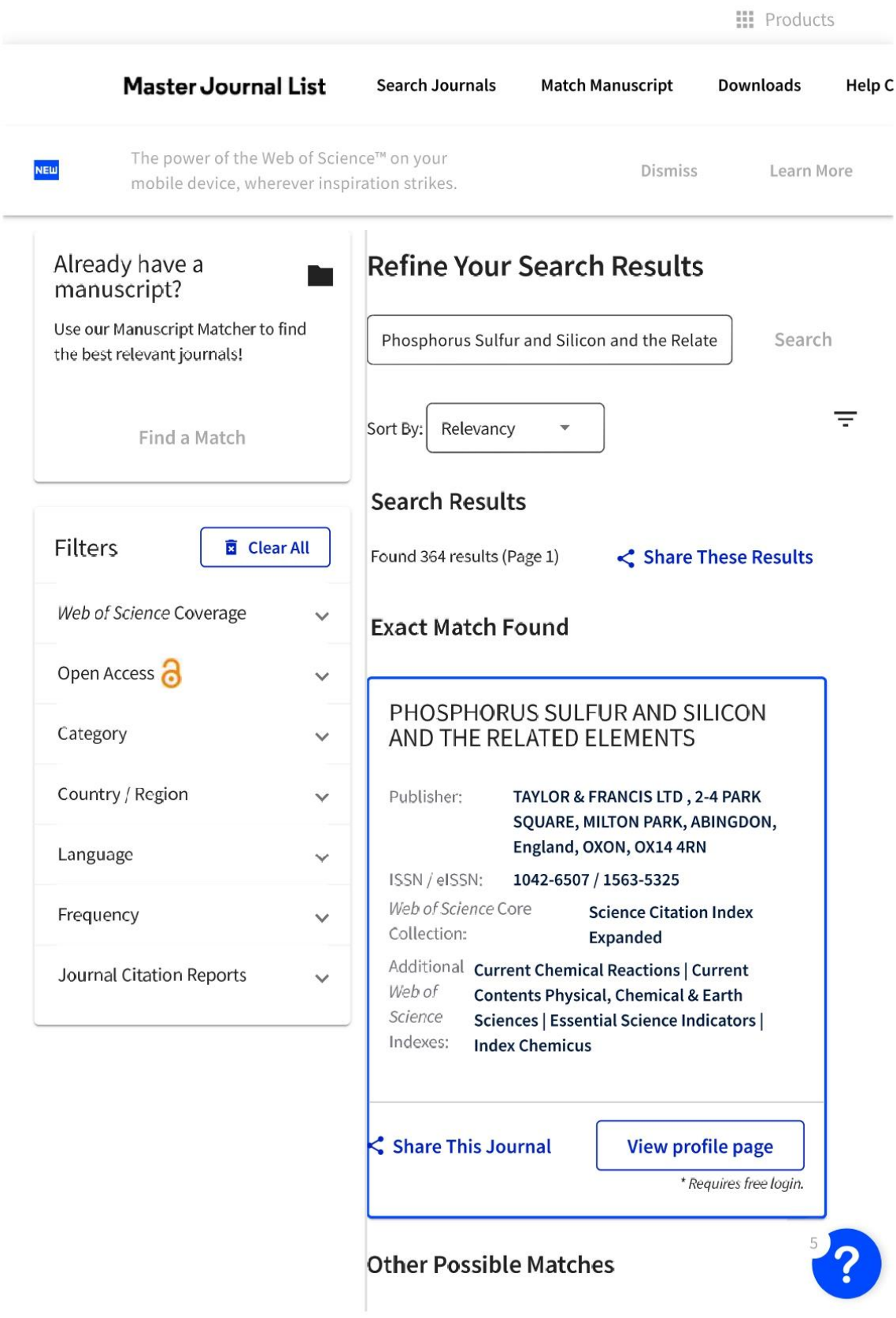
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Articles

Chemical and sweet basil leaf mediated synthesis of cerium oxide (CeO_2) nanoparticles: Antibacterial action toward human pathogens

S. Sebastiammal, N. Annlin Bezy, A. Somaprabha, J. Henry, C.S. Biju & A. Lesly Fathima

Pages 237-243 | Received 11 Aug 2021, Accepted 07 Dec 2021, Published online: 22 Dec 2021

Cite this article https://doi.org/10.1080/10426507.2021.2017435 Check for updates

Abstract

The current study explores the bacterial inactivation of CeO_2 nanoparticles (NPs) synthesized via chemical co-precipitation (C-CeO_2) and green synthesis (G-CeO_2) route. In the green synthesis route, the sweet basil leaf extract is used as a reducing agent while CTAB acts as a surfactant in the chemical route. The structural, surface, and optical properties were studied by different physico-chemical techniques. X-ray diffraction pattern of CeO_2 nanoparticles confirms face-centered cubic (FCC) crystal system. The crystallite size is reduced for the green synthesized CeO_2 nanoparticles.

Scopus Preview

Source details

Songklanakarin Journal of Science and Technology

Scopus coverage years: from 2006 to Present

Publisher: Prince of Songkla University

ISSN: 0125-3395

Subject area: Multidisciplinary

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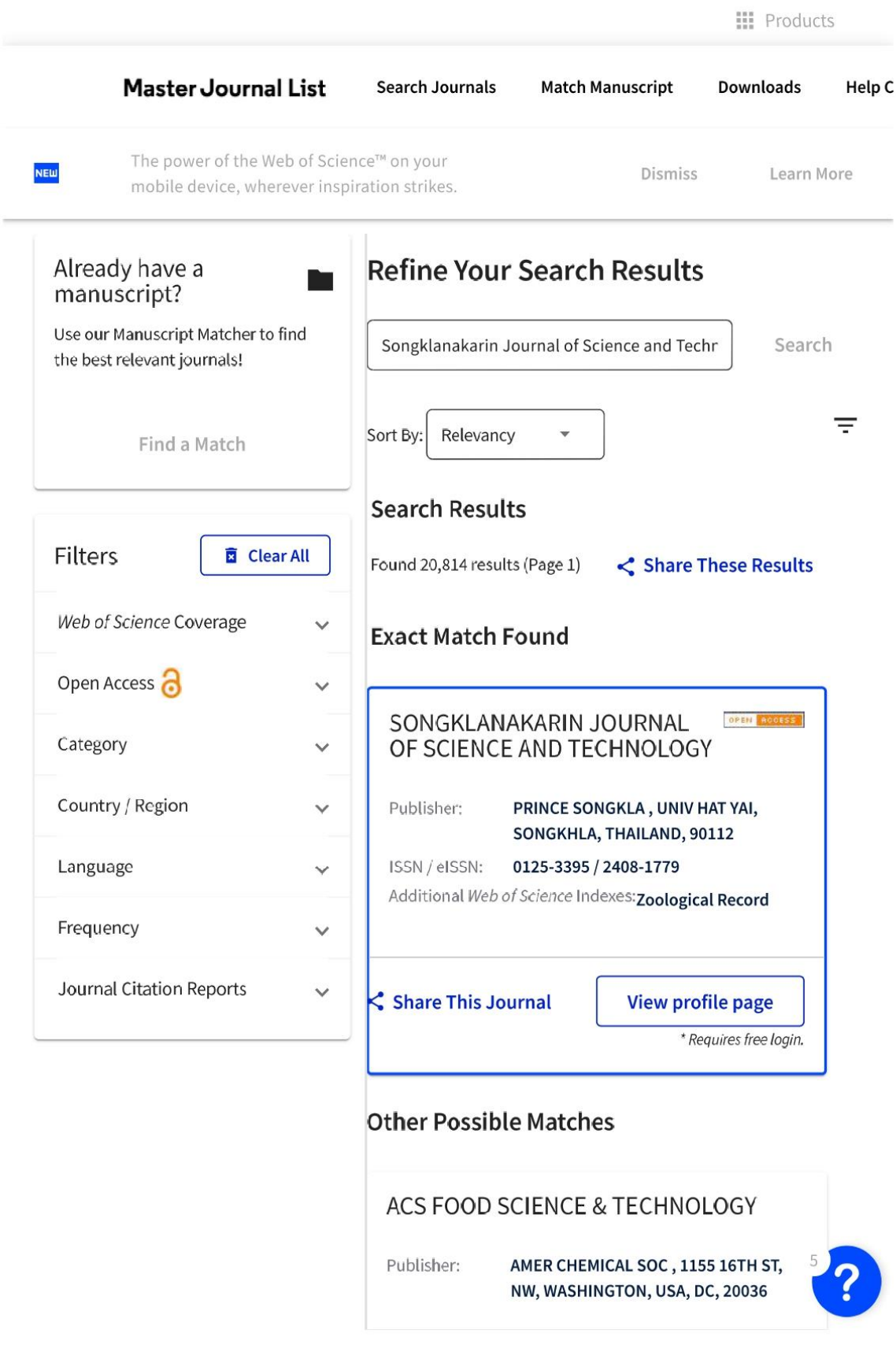
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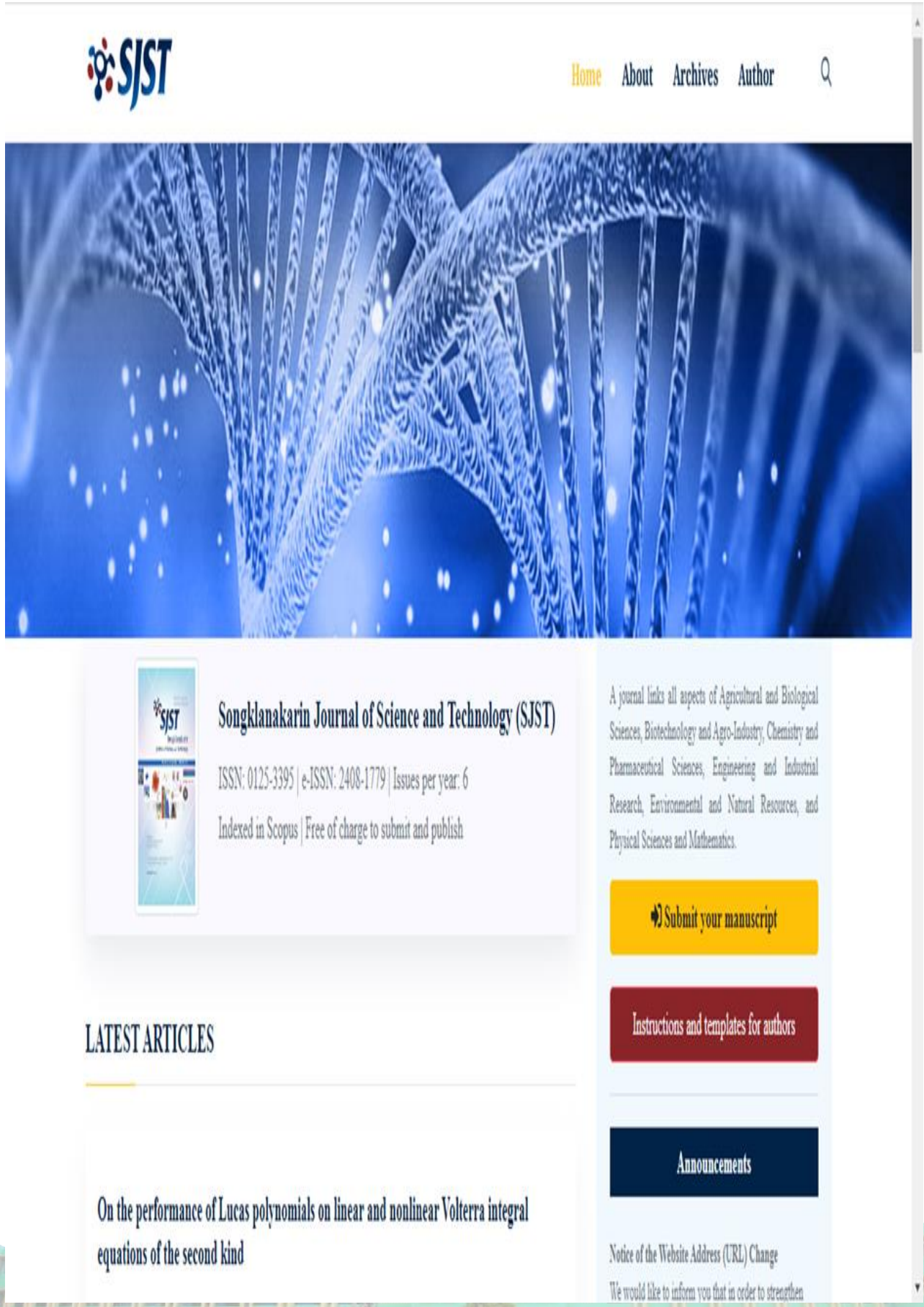
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Original Article

Green synthesis of cerium oxide nanoparticles using *aloevera leaf* extract and its optical properties

S. Sebastiammal[1], S. Sonia[1], J. Henry[2], and A. Lesly Fathima[1*]

[1] *Department of Physics, Holy Cross College (Autonomous), Nagercoil, Tamil Nadu, 629004 India*

[2] *Department of Physics, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, 627012 India*

Received: 11 February 2020; Revised: 20 March 2020; Accepted: 13 April 2020

Abstract

In the present report, bio-reduction of cerium nitrate into cerium oxide nanoparticles has been done using *aloevera* leaf extract. The synthesized CeO_2 nanoparticles were characterized by PXRD, FTIR, UV-DRS, FESEM, EDAX and PL. From the PXRD analysis, it is found that the synthesized CeO_2 nanoparticles were the face centered cubic structure. The crystalline size is found to be about 7 nm and 12 nm for the CeO_2 nanoparticles before and after calcination respectively. FTIR spectra exhibit the formation of CeO_2 nanoparticles. The UV – Vis spectra shows an absorption peak at 320 nm. The FESEM analysis, showed spherical shaped CeO_2 nanoparticles and its size is about 50 nm.

Keywords: biosynthesis, CeO_2 NPs, PXRD, FTIR, UV-DRS, FESEM

1. Introduction

There is an increasing commercial demand for nanoparticles due to its promising applications in electronics, chemistry, catalysis, energy and medicine (Bar *et al.*, 2009; Mittal & Pandey, 2014). Metallic nanoparticles are traditionally synthesized by wet-chemical techniques, where the chemicals used are quit toxic and inflammable (Edison & Sethuraman, 2013). Cerium is one of the most abundant rare-earth metals found in the Earth's crust (Nisha *et al.*, 2014). Cerium oxide (CeO_2) has received much attention in the global nanotechnology market due to its useful applications for catalysts, fuel cells, and fuel additives (Bankar, Joshi, Kumar, & Zinjarde, 2010). CeO_2 is a semiconductor with wide band gap energy (3.19 eV) and large exciton binding energy (Arumugam *et al.*, 2015). Recently the CeO_2 NPs were used as a diesel fuel additive, to reduce the ignition temperature of carbonaceous diesel exhaust particle (DEP) and subsequently to reduce the emission of particulate matter from diesel engines (Niu, Azfer, Rogers, Wang, & Kolattukudy, 2007). Cerium oxide nanoparticles are exhibiting excellent antioxidant properties so that they can be able to cure stress-related diseases (Caputo *et al.*, 2017).

Green nanotechnology is a mushrooming area of research in the scientific world. The green synthesis method offers a plenty of advantages such as cost-effectiveness, large scale commercial production and pharmaceutical applications. The plant extract which facilitates green synthesis has gained a wide attention and has emerged as an active research area in the field of nanotechnology. Plant extract consists of tannins and poly phenol which are widely applied in food processing as natural additives to edible foods and in leather industry for fabrication. The polyphenolic OH^- groups have good affinity towards metal ions; hence the plant extract is widely applied as reducing, stabilizing and chelating agent (Kalaiselvi, Mathammal, Vijayakumar, & Vaseeharan, 2018). Arunachalam, Karpagasundaram, and Rajarathinam, (2017) have prepared *Prosopis juliflora* leaf extract mediated CeO_2 nanoparticles and studied its antibacterial activity

*Corresponding author
Email address: leslysat@gmail.com, leslyfathima@holycrossngl.edu.in

Scopus Preview

Source details

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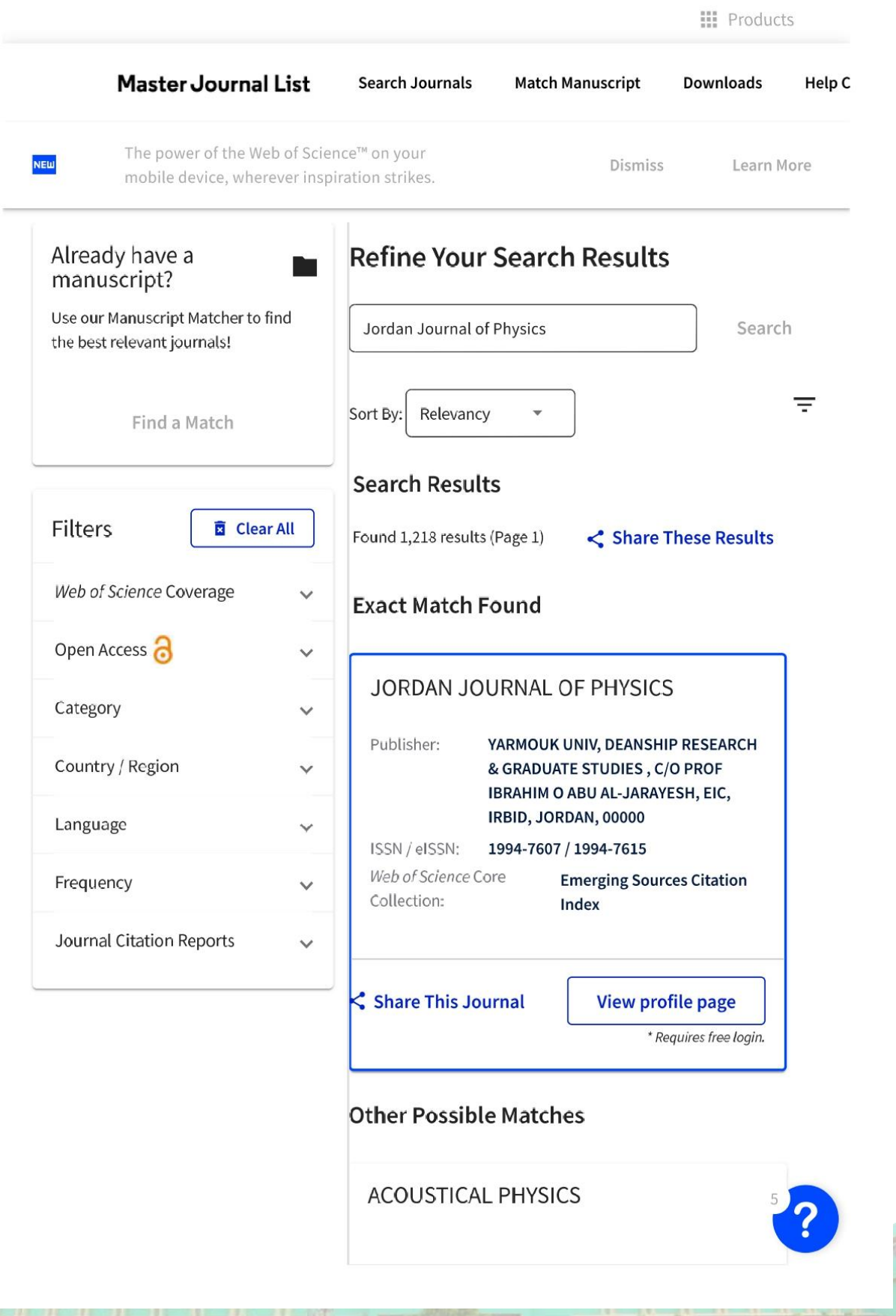
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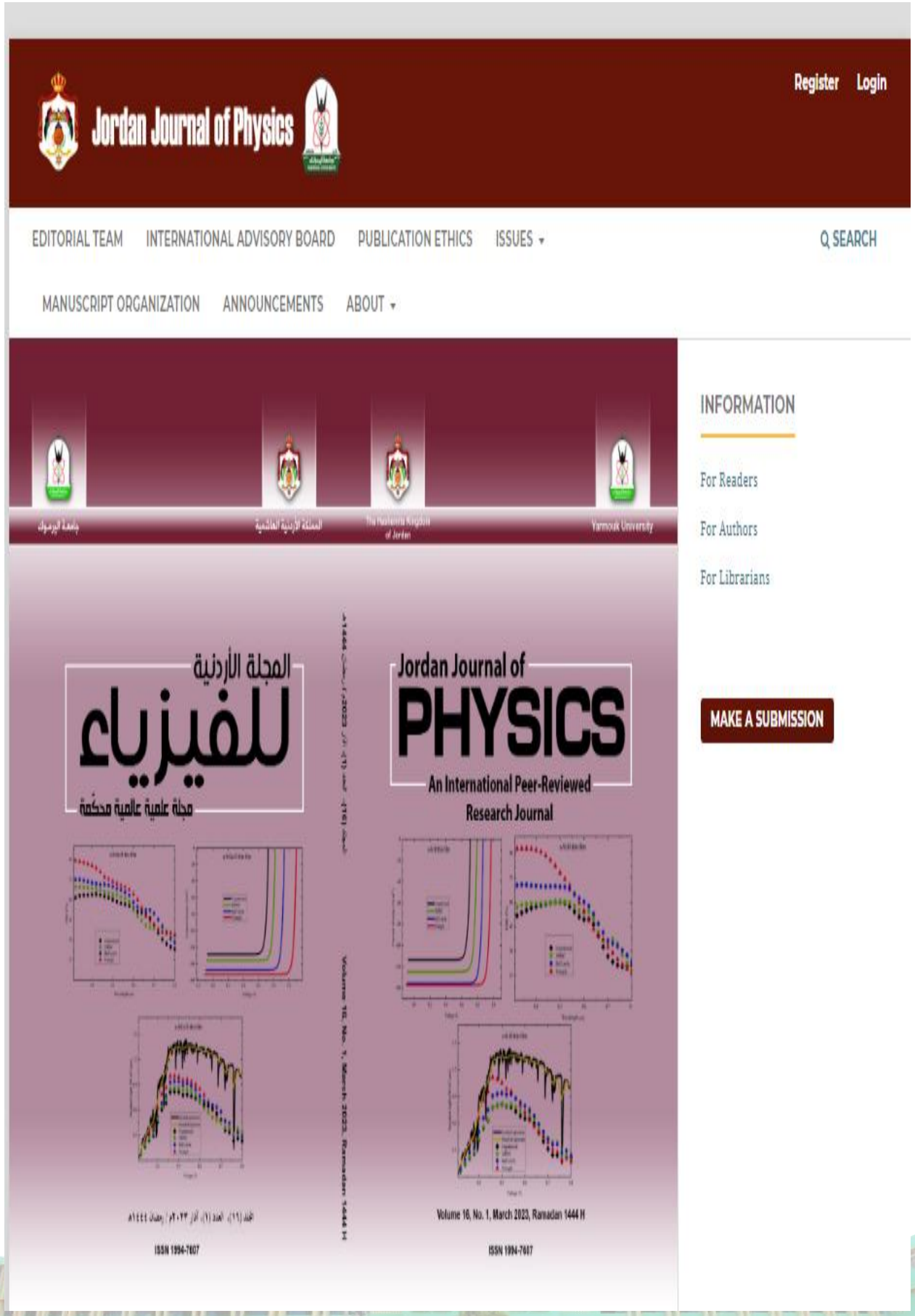
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ARTICLE

Structural and Surface Characteristics of CuO and Pt/CuO Nanostructured Thin Films

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Abstract: The most prominent and utilizable platinum-coated copper Oxide nanostructured thin films are prepared using the SILAR method. Their structural properties have been studied using X-ray diffraction (XRD) and Raman spectroscopy. XRD pattern reveals the phase purity and crystallinity of CuO nanostructures. The average grain size estimated from XRD gives diameters in the range of 14 - 27 nm. Raman spectra explain the structural information of CuO and Pt/CuO nanostructured thin films, in which the peaks observed at 328 cm^{-1}, 609.32 cm^{-1} and 1141.77 cm^{-1} are the different phonon modes of CuO. The peak at 2136 cm^{-1} provides strong evidence for the formation of platinum on CuO nanostructures. The SEM micrograph confirms the floral morphology, which is composed of nano petals. From the observed morphology, it is observed that the deposited thin films such as CuO and Pt/CuO will give interesting applications to our society by being self-cleaning agents, photocatalysts, semiconductor devices, optical fibers, … etc.

Keywords: CuO, Pt/CuO, Structural analysis, SILAR, Crystallinity.

1. Introduction

Copper oxide, including cuprous oxide (copper (I) oxide) and cupric oxide (copper (II) oxide), is formed when copper is exposed to oxygen [1]. These semiconductor oxides have been investigated for various purposes, such as the inherent abundance of starting material (Cu), the ease of production by Cu oxidation, their non-toxic nature and the reasonably good electrical and optical properties exhibited by CuO [2]. Previous works showed that many of the growth methods for copper oxide resulted in a combined growth of copper (I) oxide (Cu_2O) and copper (II) oxide (CuO). However, CuO is a more widely used material than Cu_2O due to its stability. Cupric oxide (CuO) possesses a monoclinic crystal structure with a bandgap of 1.22–2.0 eV [3, 4]. Its high optical absorption coefficient in the visible range and reasonably good electrical properties constitute important advantages and render CuO as the most

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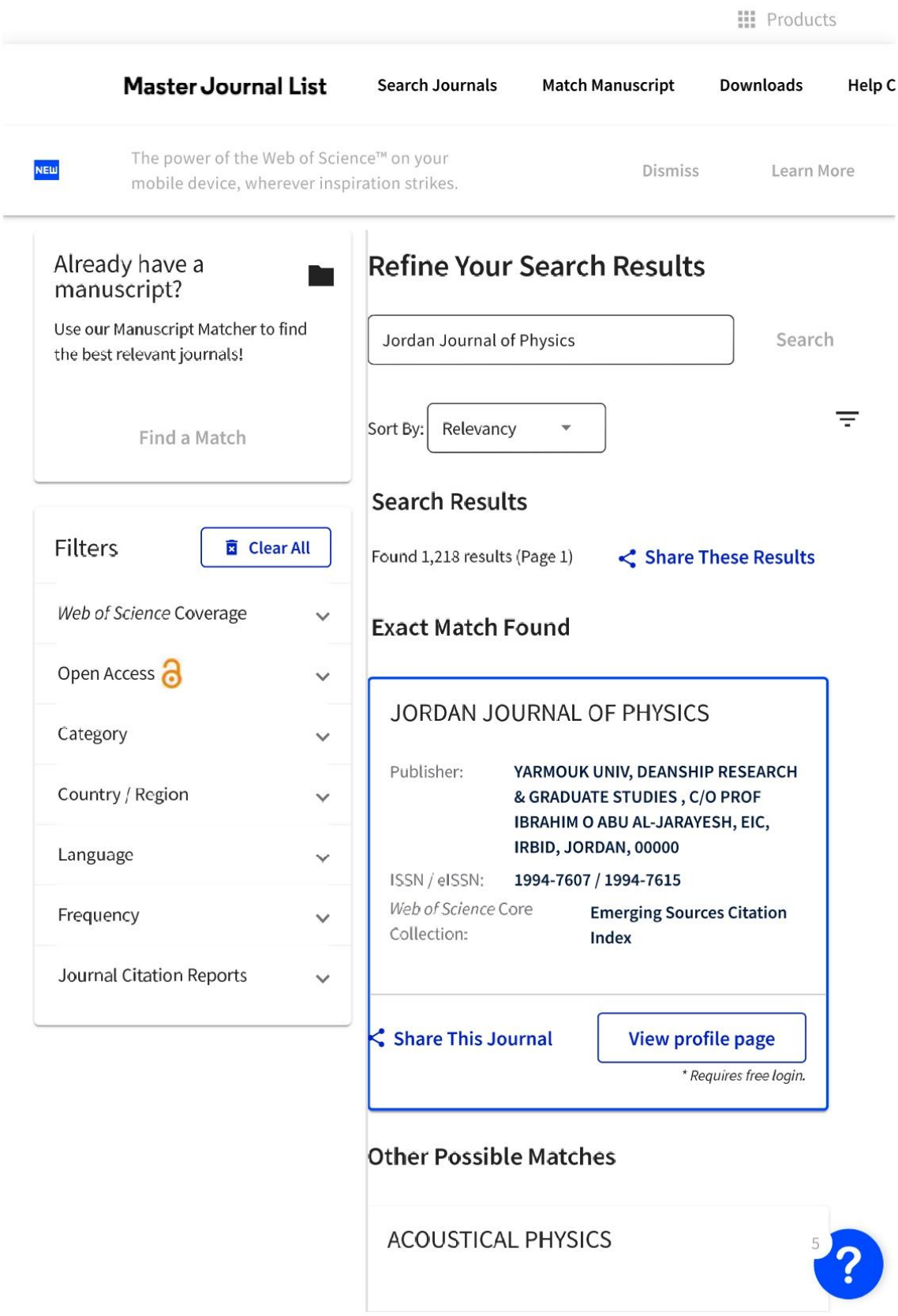
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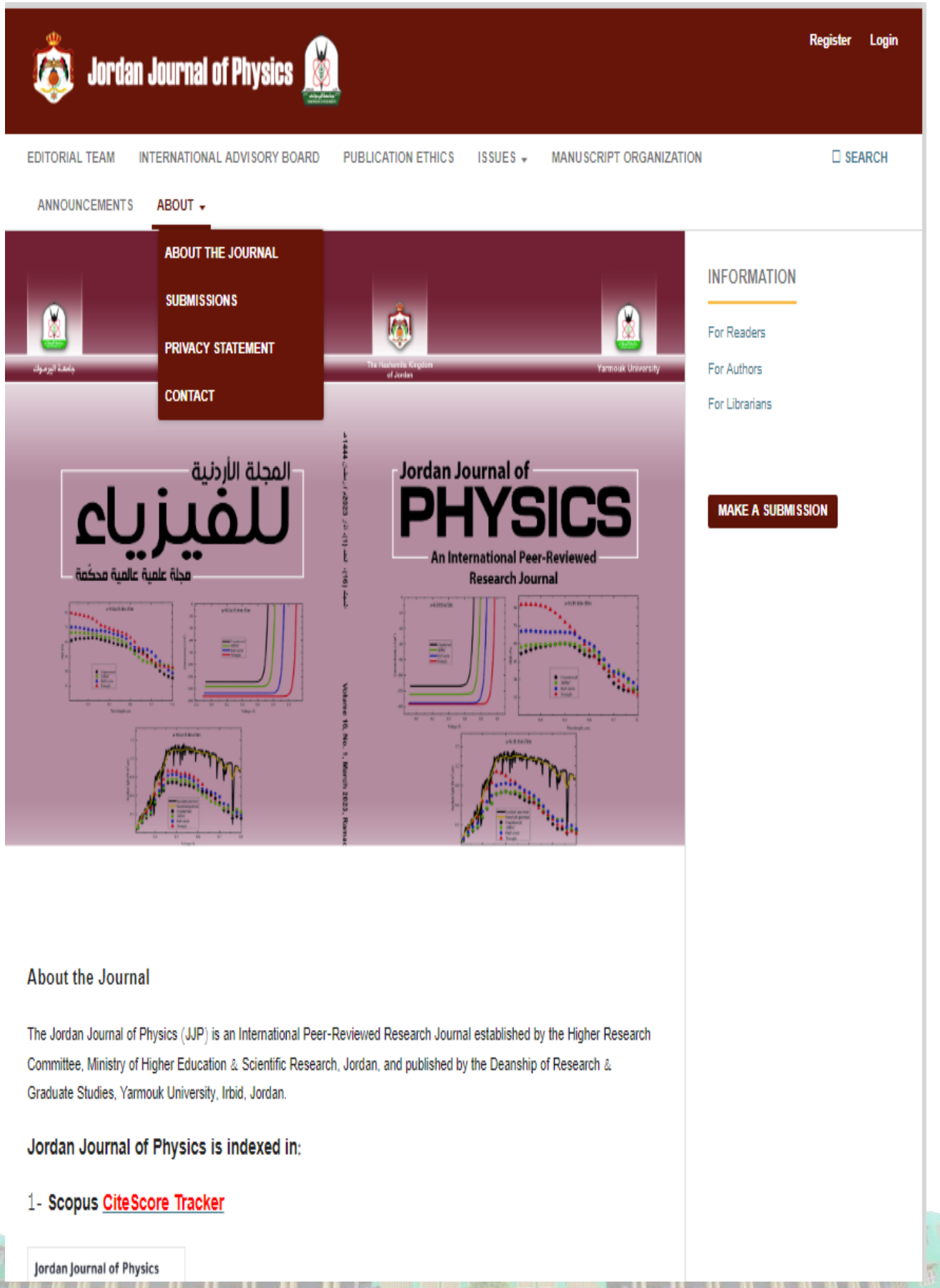
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Jordan Journal of Physics

ARTICLE

Albumen-assisted Synthesis of Nanocrystalline Nickel Ferrite Photocatalyst

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Abstract: As a simple step to remove the polluting dyes in aqua ecosystem, $NiFe_2O_4$ nanoparticles well known for their ferromagnetic properties, low conductivity and high electrochemical stability were prepared by simple auto combustion method using egg white as fuel *via* green synthesis route. The structural, morphological and magnetic properties of prepared $NiFe_2O_4$ was analyzed. The desirable phase purity of the prepared spinel ferrite was deliberated by X-ray Diffractometer (XRD), Fourier Transform Infrared Spectrometer (FTIR), Scanning Electron Microscopy (SEM), Energy Dispersive and Vibrating Sample Magnetometer (VSM). XRD predicts the phase formation, particle size and lattice parameter of the spinel ferrite. The FTIR spectrum confirms the ferrite structure. The morphological and elemental analysis was made using SEM and EDAX. The hysteresis curve reveals the magnetic properties, such as remanence magnetization (Mr), coercivity (H_c) and saturation magnetization (M_s). The photocatalytic efficiency of the synthesized samples was determined from degradation of methylene blue dye. The whole process was monitored using spectrophotometer at regular intervals of time. The maximum photocatalytic degradation efficiency for $NiFe_2O_4$ is around 95.6 %.

Keywords: $NiFe_2O_4$, Ferrite, Green synthesis, Egg white, Combustion, Photocatalyst.

1. Introduction

Wastewater management in developing countries is a major problem due to various industrial processes that meet human needs. Dyeing and pigment industries are of major environmental concern among the various industries, as wastewater includes several non-biodegradable organic colors. From textiles to food, dyes are widely used by humans. Methylene blue is an organic dye that is synthetic and water soluble. It is widely used as a colorant in textiles, paper, plastics, cosmetics, leather, food and many other industries, leading to large dye effluent discharges. If the effluents are not treated properly, they become a serious environmental problem that affects the flora and fauna, as well as human health. Methylene blue dye can irradiate the eyes and skin and damage the respiratory, reproductive, and nervous systems through carcinogenic actions. In

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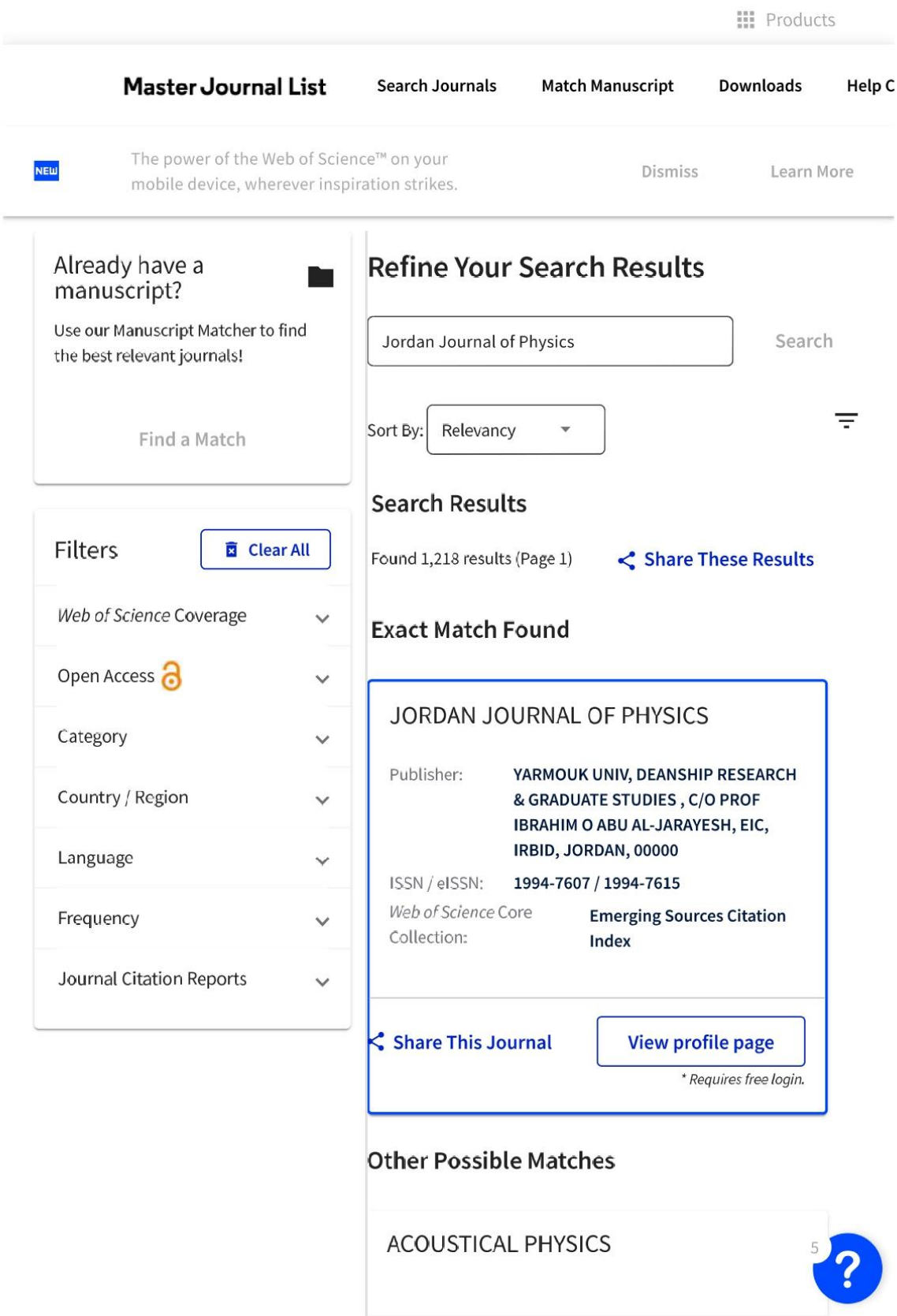
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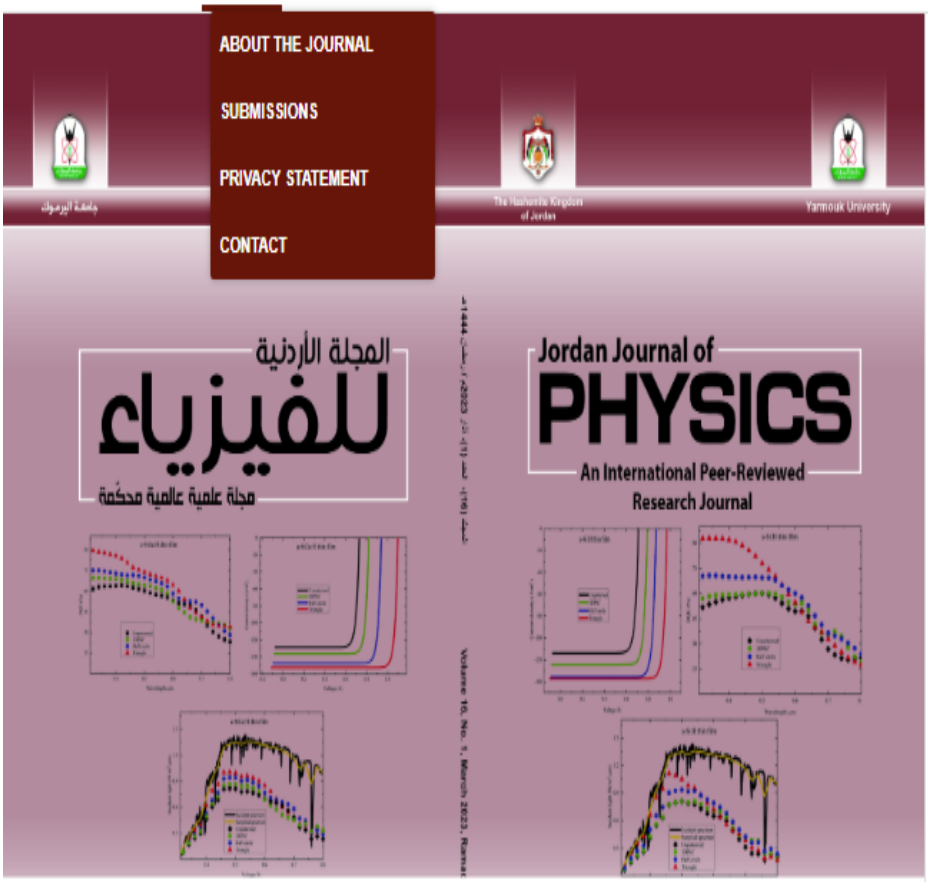

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Jordan Journal of Physics

ARTICLE

Albumen-mediated Green Synthesis of $ZnFe_2O_4$ Nanoparticles and Their Physico-Chemical Properties

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Abstract: Spinel ferrites with general formula AB_2O_4 possess charming magnetic and electrical properties owing to their thermal and chemical steadfastness. Spinel zinc ferrite ($ZnFe_2O_4$) nanoparticles have attracted massive attention due to their unusual amalgamation of properties, especially magnetic properties, where these properties are equipped as suitable candidates in the field of electronics. Here, a simple self-combustion technique is made with the assistance of albumen to synthesize nanocrystalline zinc ferrite ($ZnFe_2O_4$) particles. The egg white (albumen) that is used in the synthesis process plays the fuel role in the process of combustion. The results of the powder X-ray diffraction (PXRD) and Fourier Transform Infrared Spectroscopy (FTIR) suggested that the synthesized nanoparticles are of single phase and show spinel structure. The photoluminescence studies reported a doublet peak at around 360-380 nm. The functional groups present in the synthesized nanoparticles were revealed from FTIR data. EDX findings give an account of the percentage composition of the elements Fe, Zn and O present in the synthesized sample. High-resolution Scanning Microscope (HRSEM) reveals the agglomerated coalescence nature of ferrite nanoparticles.

Keywords: Ferrite, PXRD, FTIR, HRSEM, EDX Albumen.

1. Introduction

Ferrites are of interest due to their electrical, magnetic and mechanical properties, which can be adapted to the requirements of device manufacturing and biological applications. Magnetic Nanoparticles have emerging biomedical applications in sundry areas, such as disease diagnostics, magnetic resonance imaging, sensors, actuators, magnetic storage devices, … etc. Nano-sized ferrites of the MFe_2O_4 type are the most significant magnetic materials which have yet to be properly investigated on the way to their physical and chemical properties. The metal-iron ratio plays a crucial role in the regulation of MFe_2O_4 nanoparticles' magnetic properties [1, 2]. Due to the increased volume fraction of surface atoms, surface effects may be crucial when reducing

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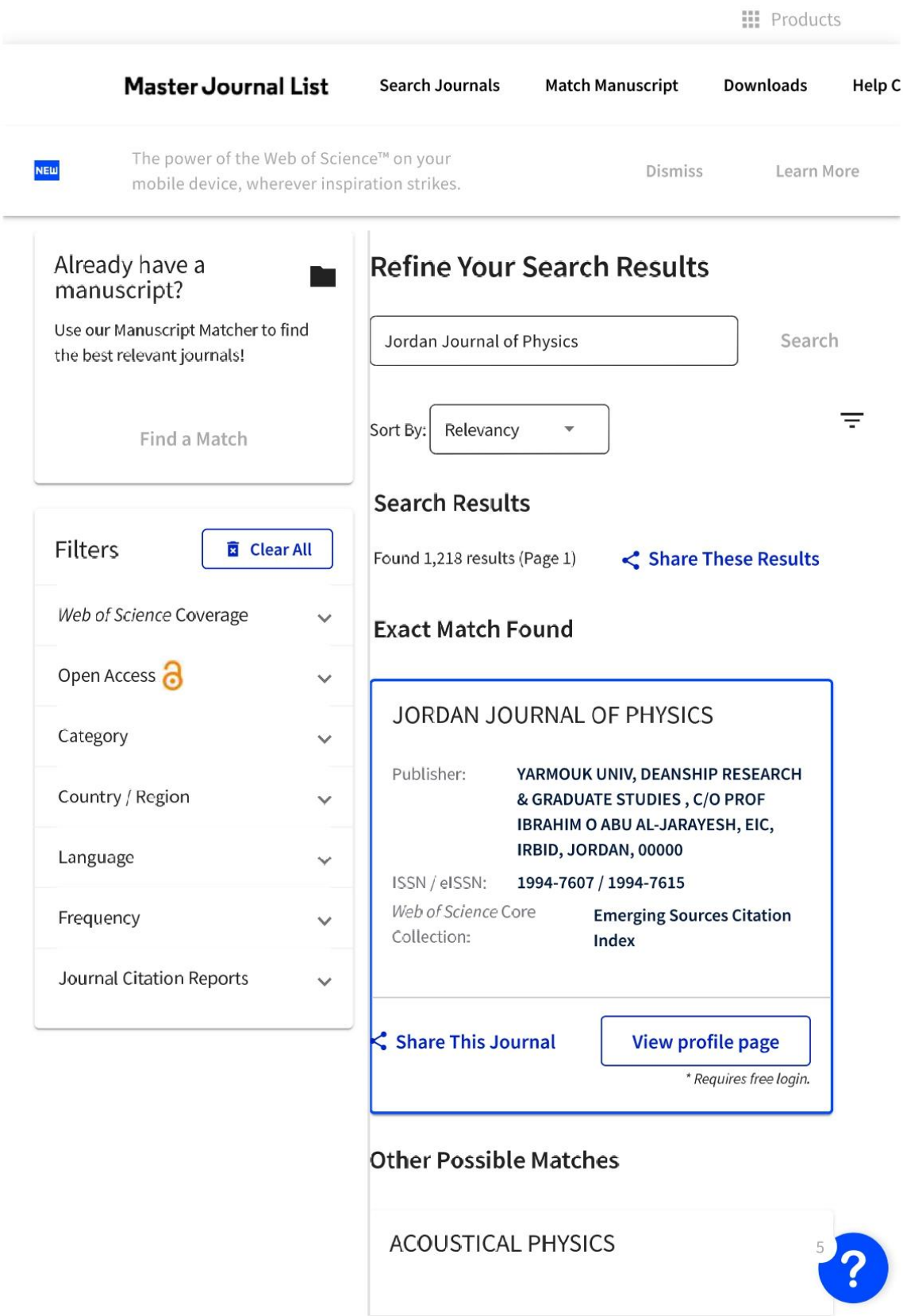
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Jordan Journal of Physics

ARTICLE

Physicochemical Properties and Antimicrobial Potential of Green Synthesized Cerium Oxide (CeO_2) Nanoparticles from Pomegranate Peel Extract

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Abstract: Green synthesis of CeO_2 Nanoparticles (NPs) with small size and high stability paved the approach to recover and protect the environment by decreasing the use of toxic chemicals and eliminating biological risks in biomedical applications. Peel-mediated synthesis of CeO_2 NPs is gaining more importance owing to its easiness and eco-friendliness. In this study, biosynthesis of CeO_2 NPs using the fruit peel extract of *punica granatum* is reported. The synthesized CeO_2 NPs are characterized by Powder X-ray Diffraction (PXRD), UV-Diffused Reflection Spectroscopy (UV-DRS), Field Emission Scanning Electron Microscopy (FESEM), Energy Dispersive X-Ray Analysis (EDAX) and antimicrobial activity. The CeO_2 NPs show more lethal activity towards gram +ve bacteria than towards gram –ve bacteria.

Keywords: Biosynthesis, Optical properties, Antimicrobial activity.

Introduction

Pathogenic microorganisms have become a major problem in our today life, since they pose a threat to health and food materials. This paves the way to the research community to investigate solutions to remove or reduce these hazardous species from the environment. Emergence of new bacterial strains which are resistant to current antibiotics has become a serious health issue. From recent literature, it is believed that nanotechnology is one of the most active research areas in providing solutions for such problems. Synthesis of nanoparticles (NPs) with various sizes and shapes has gained much importance in nanotechnological applications [1-5]. In general, nanoparticles have a higher surface-to-volume ratio with an enlarged contact area with microbes. This feature enhances the biological activity of NPs and finds applications in the medical field.

CeO_2 is a semiconductor material which has a wide bandgap ranging between 3.0 eV and 3.9 eV with large excitation energy [6]. CeO_2 NPs have received much attention in nanotechnology due to their useful applications as catalysts, fuel cells and antioxidants in biological systems [7-10]. CeO_2 can be prepared by several methods,

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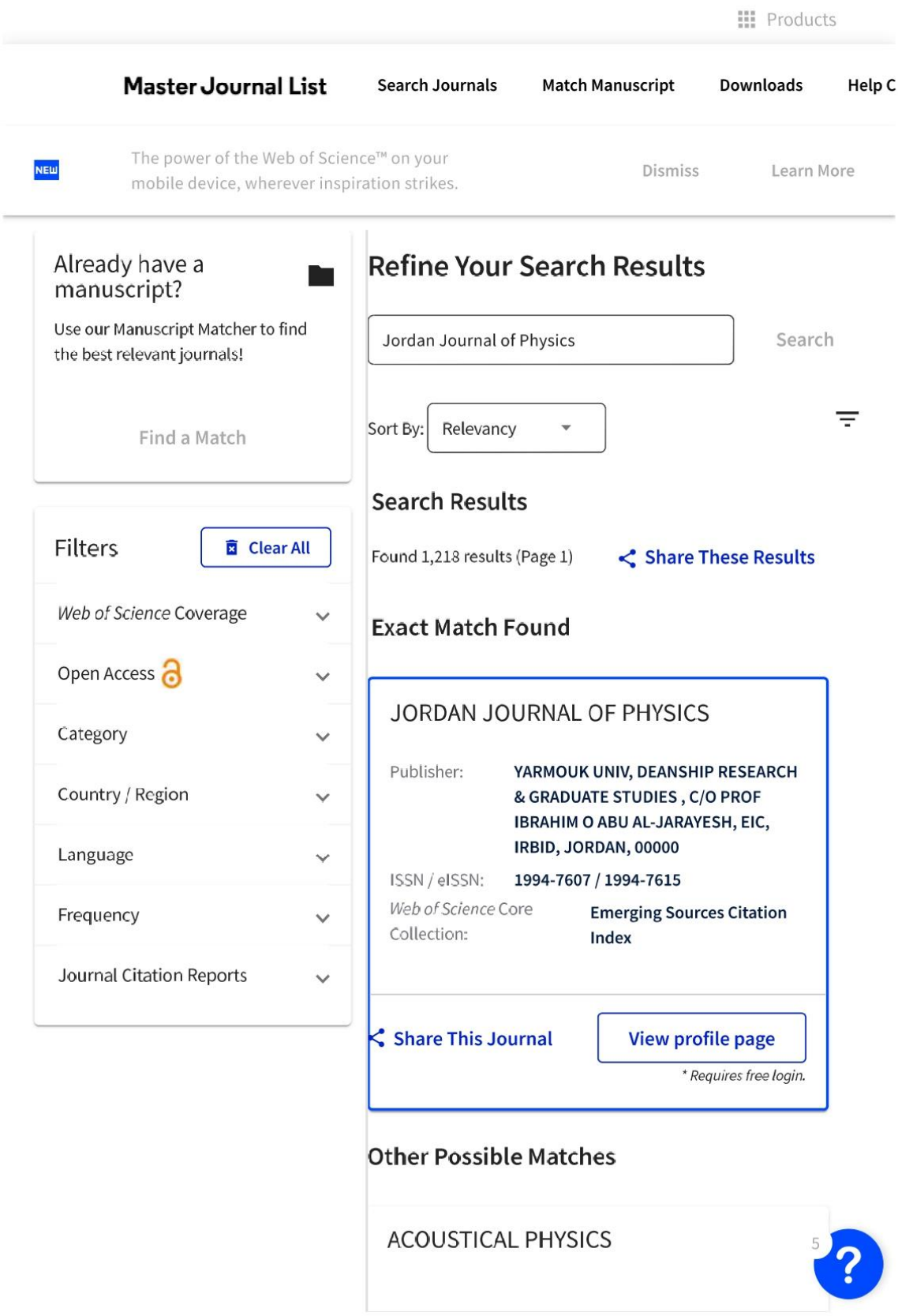
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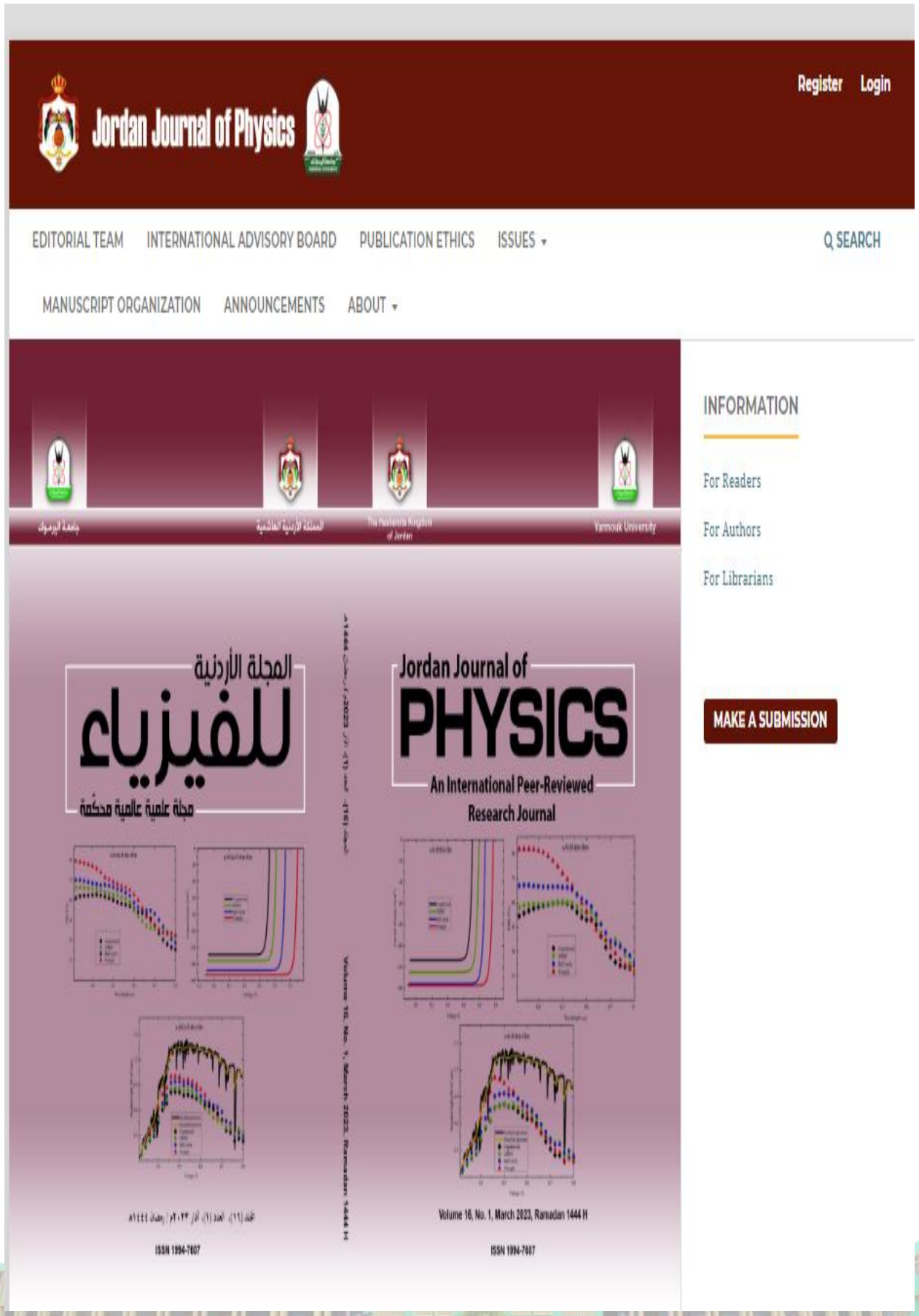
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ARTICLE

Effect of ZrO_2 Nanofiller on the Physical Properties of Epoxy Composites: Mechanical, Thermal and Dielectric

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Abstract: In this present work, Zirconia nanoparticles were prepared by precipitation method, Zirconium Oxychloride ($ZrOCl_2.8H_2O$) and ammonia (NH_3) as starting materials. The synthesized Zirconia nanoparticles were characterized by XRD and the grain size in nanoscale was confirmed. The sheets of neat epoxy resin and epoxy with addition of ZrO_2 nanoparticles are primed by solution casting method. The structures of epoxy polymer and hardener were found out using FTIR analysis. The thermal properties were analyzed using Thermo Gravimetric Analysis (TGA) and Differential Thermal Analysis (DTA). Thermo gravimetric analysis has been employed to investigate the thermal characteristics and their mode of thermal degradation. Differential thermal analysis has been used to determine the glass transition temperature of epoxy nanocomposites. The mechanical properties like tensile and flexural studies were analyzed and thus influences of nanofiller loading on these parameters were found to be very low.

Keywords: Epoxy, ZrO_2 nanoparticles, Nanocomposites, Thermal stability, Dielectric properties, Tensile strength, Flexural strength.

Introduction

Polymer nanocomposites have attracted increasing attention in the last decade because of their significant improvement of physical and chemical properties over the matrix polymers. The effects of nanofillers on these properties have been extensively observed to make nanocomposites for application purpose. The addition of just a few percent by weight of nanofillers can result in significant enhancement in dielectric, thermal and mechanical properties. The incorporation of metal oxide nanoparticles with polymer is approached to improve the mechanical strength [1–6]. The effects of inorganic fillers on the properties of composites strongly depend on filler size and shape, type of particles and the degree of dispersion [7-8]. Various nanoscale fillers, including metal oxides, montmorillonite and calcium carbonate, have been reported to enhance the mechanical properties, thermal stability, gas barrier properties, electrical properties and flame retardancy of the polymer matrix [9-11]. Among various metal oxide fillers, nano-sized zinc oxide (ZnO), zirconium oxide (ZrO_2), titanium dioxide (TiO_2) and cerium oxide (CeO_2) fillers have attracted considerable attention because of their unique physical properties as well as their low cost and extensive applications in diverse areas [12-15]. Here, the purpose of study is to evaluate the physical properties of epoxy resin with Zirconia nanoparticles.

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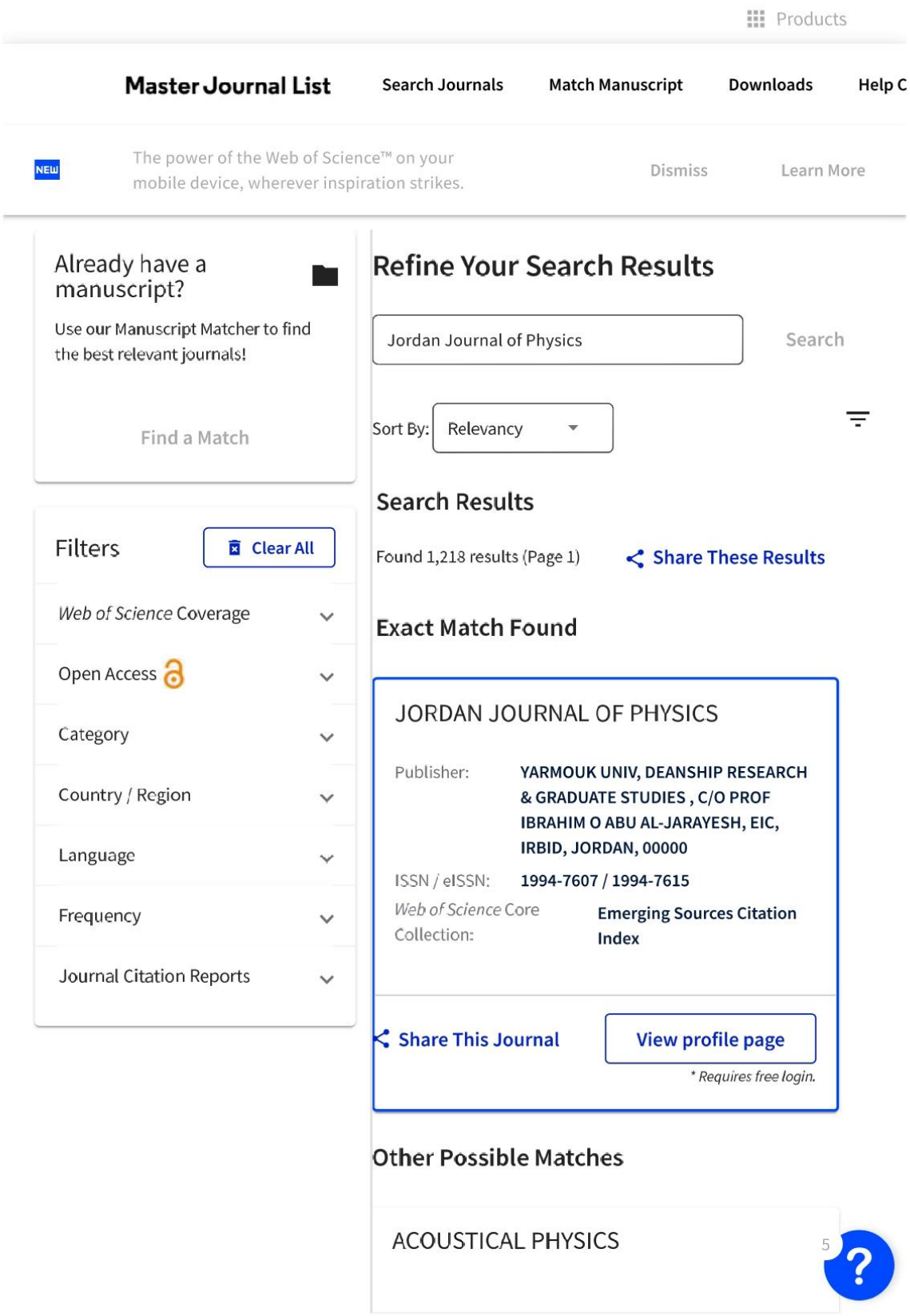
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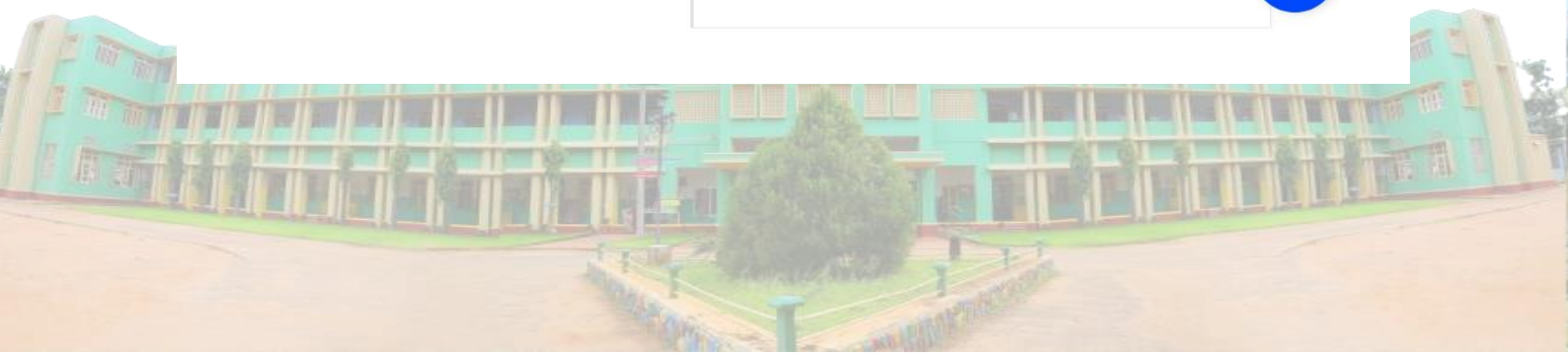

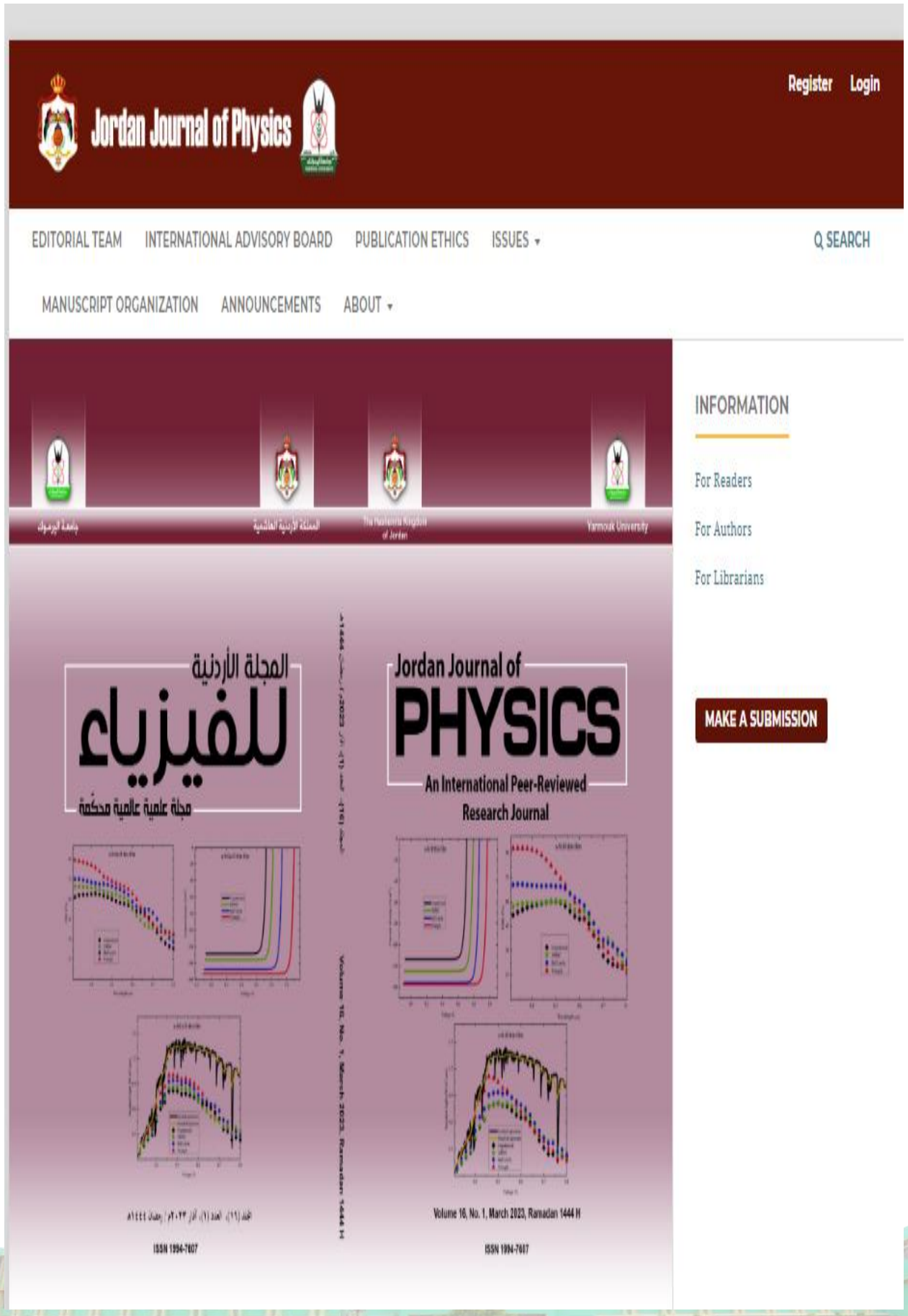
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ARTICLE

Structural and Optical Properties of Pure NiO Nanoparticles and NiO-Mn_2O_3, NiO-CdO, NiO-Pb_2O_3, NiO-ZnO Nanocomposites

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Abstract: Pure nickel oxide (NiO) nanoparticles and NiO-Mn_2O_3, NiO-CdO, NiO-Pb_2O_3, NiO –ZnO nanocomposites were synthesized by co-precipitation method. The PXRD studies revealed that NiO, Mn_2O_3 and CdO possessed cubic structure, Pb_2O_3 possessed monoclinic structure, ZnO possessed hexagonal structure and confirmed the presence of polycrystallinity nature of NiO and Mn_2O_3, CdO, Pb_2O_3, ZnO in the nanocomposites. The average grain size of NiO nanoparticles was found to be 30.10 nm using Debye Scherer's formula. The FESEM images of NiO nanoparticles and their nanocomposites revealed spherical shaped structure and NiO-Pb_2O_3 revealed needle shaped rod-like structure. EDAX analysis confirmed the composition of NiO nanoparticles and their nanocomposites. Raman spectra exhibited characteristic peaks of pure NiO and that of NiO- Mn_2O_3, NiO-CdO, NiO- Pb_2O_3, NiO-ZnO in the synthesized nanocomposites. In the PL spectra, blue and green emission was observed in the samples. UV-vis spectra revealed the absorption peaks of NiO nanoparticles and their nanocomposites. Thus, the synthesized NiO- Mn_2O_3, NiO-CdO, NiO - Pb_2O_3 and NiO-ZnO nanocomposites can be a suitable material for electrocatalysis applications.

Keywords: Nickel oxide nanocomposites, Structure, Morphology, Absorption, Luminescence.

1. Introduction

Nickel oxide (NiO) is an important transition metal oxide that has been under the extensive investigation for decades due to its interesting electronic structures, strongly affected by Ni-3d electrons [1] which are localized in space, but spread out over a wide energy range because of strong Coulomb repulsion between them [2]. The high specific surface area of NiO nanoparticles has significant implications with respect to the energy storage devices based on electrochemically active sites (batteries, super capacitors) and energy conversion devices depending on catalytic sites or defect structures. NiO nanoparticles and their nanocomposites have been synthesized *via* a cost-effective and highly convenient co-precipitation method [3]. Mn_2O_3 nanoparticles can be utilized for advanced materials in batteries, as well as other applications, such as water treatment and imaging contrast agents [4]. CdO has potential applications in flat panel displays, organic light emitting diodes, optoelectronic devices, gas sensors and electrodes [5]. CdO also possesses both antibacterial and anticancer activity. Previous studies reported the synthesis of nanocomposites containing CdO and other metal oxide combinations [6]. The Pb_2O_3 nanoparticles are used in magnetic resonance and as magnetic nanoparticles for magnetic data storage and magnetic resonance imaging (MRI). The most

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Plant mediated Synthesis and Characterization of Silver Nanoparticles Using the ethanolic extract of Mangifera indica Seed and their Antimicrobial Activity

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Abstract

Environment-friendly methods for the synthesis of silver nanoparticles become a valuable method in the current scenario. The utilization of phytochemicals from plant extract has become a unique skill for the synthesis of nanoparticles as they possess the dual nature of reducing and capping agents to the nanoparticles. In the present study silver nanoparticles were synthesized by using the ethanolic extract of Mangifera indica seed as a reducing and capping agent at room temperature. The formed nanoparticles were characterized by UV-Vis, FT-IR, XRD, SEM and EDAX and TEM. XRD shows the nanoparticles are crystalline. TEM shows particles are spherical and the size of the nanoparticles are in the range of 14.06 nm – 49.043 nm. FT-IR analysis shows that Mangifera indica seed extract capping in silver nanoparticles and has profound anti-microbial activity against the pathogens Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans and Aspergillus niger.

Keywords: Silver nanoparticles, Mangifera indica, Anti-microbial activity.

1. Introduction

Nanotechnology is a significant field that deals with particles size approximately 1 to 100 nm. The chemical, physical and biological properties are differing from their bulk and their properties

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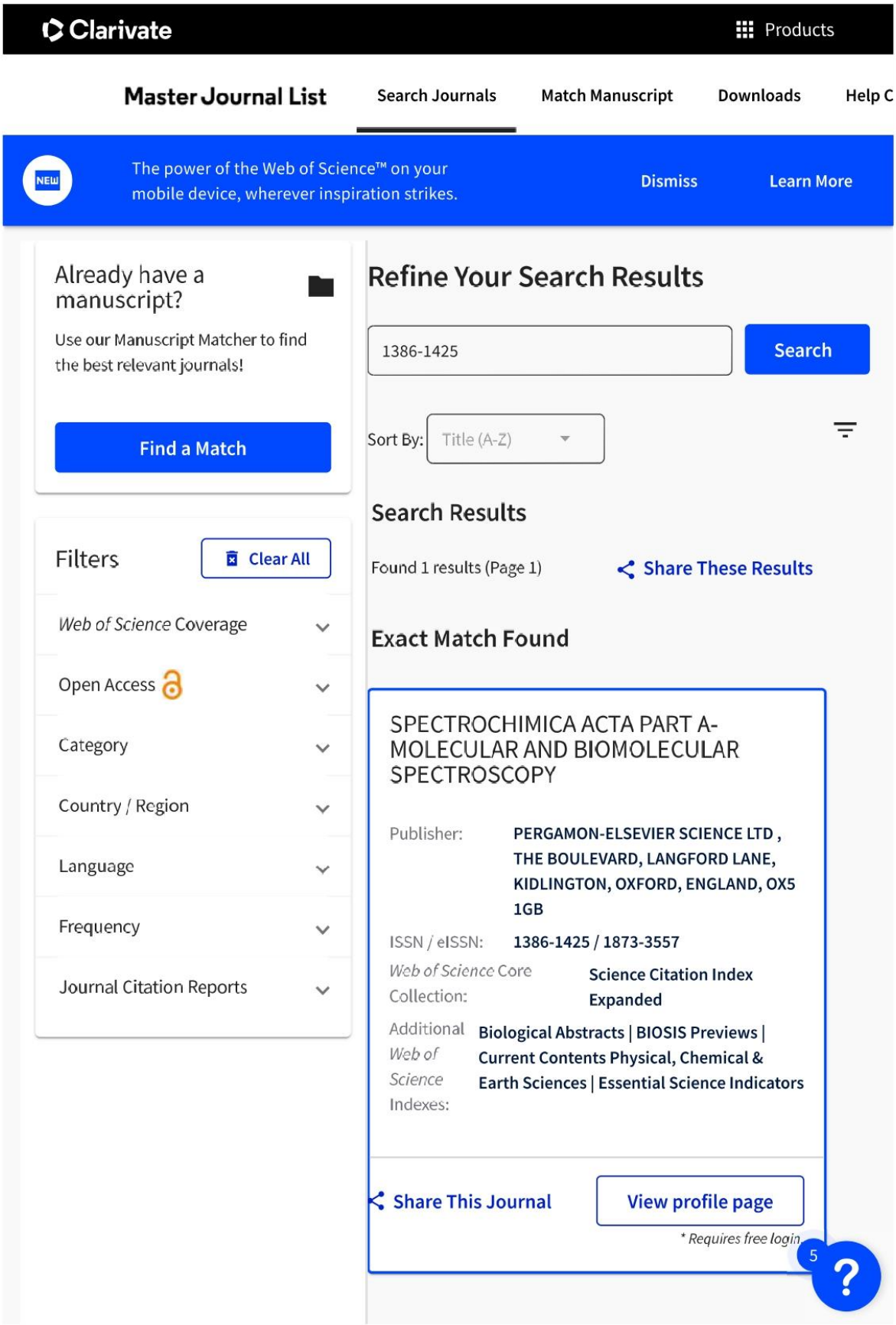
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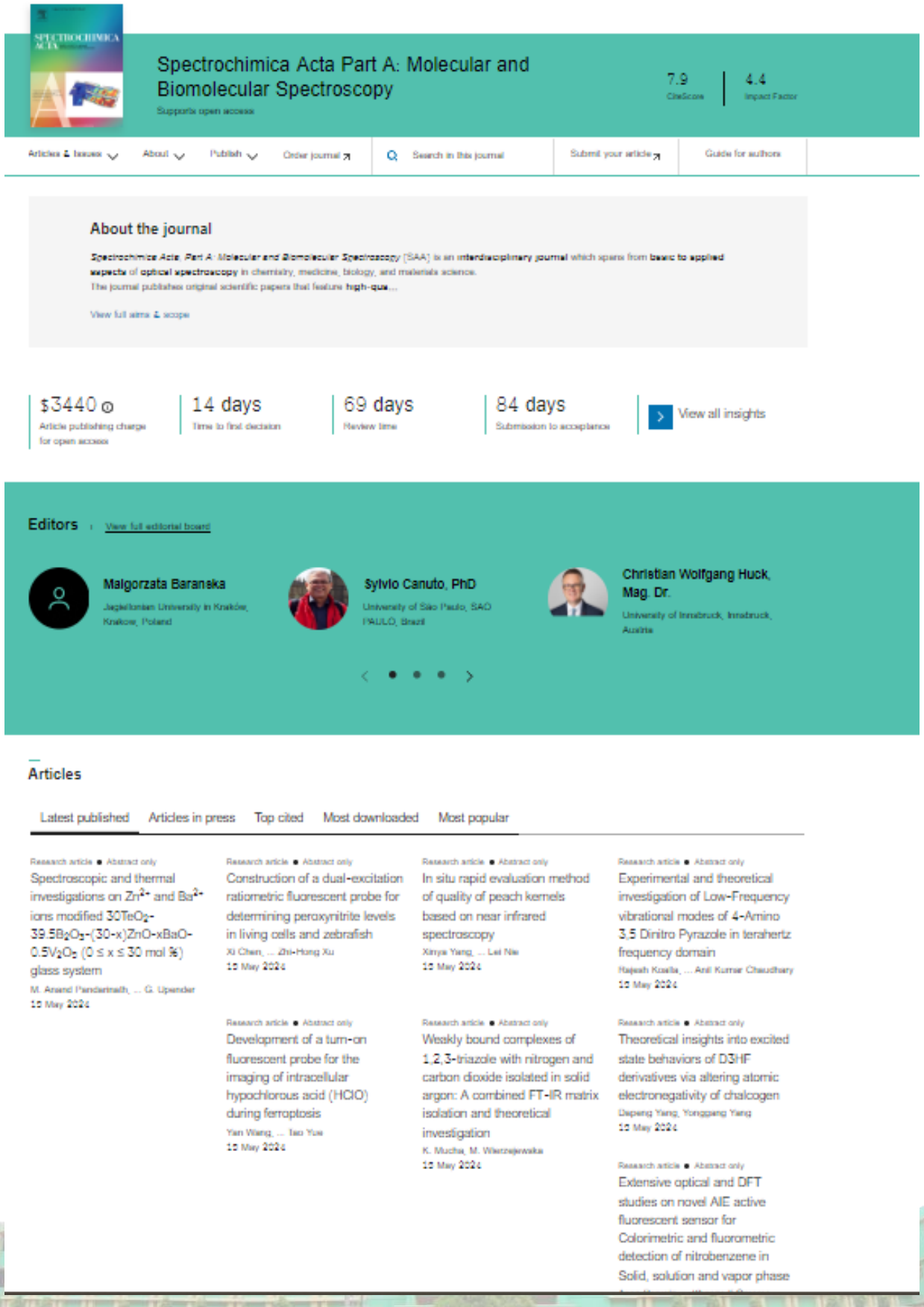

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Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy

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Quantum chemical insight into molecular structure, NBO analysis of the hydrogen-bonded interactions, spectroscopic (FT–IR, FT–Raman), drug likeness and molecular docking of the novel anti COVID-19 molecule 2-[(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluorophenyl)acetamide - dimer

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ABSTRACT

Novel antiviral active molecule 2- [(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluoro- phenyl)acetamide has been synthesised and characterized by FT-IR and FT-Raman spectra. The equilibrium geometry, natural bond orbital calculations and vibrational assignments have been carried out using density functional B3LYP method with the 6-311G++(d,p) basis set. The complete vibrational assignments for all the vibrational modes have been supported by normal coordinate analysis, force constants and potential energy distributions. A detailed analysis of the intermolecular interactions has been performed based on the Hirshfeld surfaces. Drug likeness has been carried out based on Lipinski's rule and the absorption, distribution, metabolism, excretion and toxicity of the title molecule has been calculated. Antiviral potency of 2- [(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluoro-phenyl) acetamide has been investigated by docking against SARS-CoV-2 protein. The optimized geometry shows near-planarity between the phenyl ring and the pyrimidine ring. Differences in the geometries due to the substitution of the most electronegative fluorine atom and intermolecular contacts due to amino pyrimidine were analyzed. NBO analysis reveals the formation of two strong stable hydrogen bonded N–H···N intermolecular interactions and weak intramolecular interactions C–H···O and N–H···O. The Hirshfeld surfaces and consequently the 2D-fingerprint confirm the nature of intermolecular interactions and their quantitative contributions towards the crystal packing. The red shift in N–H stretching frequency exposed from IR substantiate the formation of N–H···N intermolecular hydrogen bond. Drug likeness and absorption, distribution, metabolism, excretion and toxicity properties analysis gives an idea about the pharmacokinetic properties of the title molecule. The binding energy −8.7 kcal/mol of the nonbonding interaction present a clear view that 2- [(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluoro- phenyl) acetamide can irreversibly interact with SARS-CoV-2 protease.

1. Introduction

Pyrimidine and its derivatives take up a key position in the field of medicinal chemistry due to its multifarious pharmacological activities. In an urge for searching new promising small therapeutic agents, we introduce 2- [(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluoro- phenyl) acetamide (DAPF). In the present study, we focus on the investigation on the molecular structure, electronic properties, vibrational spectra and molecular docking of the title compound, with the hope that the results of the present investigation may be decisive in the prognosis of its mechanism of biological activity.

Pyrimidines, the fundamental building blocks for nucleic acids, are invoking much scientific interest owing to their potential biological activities and pharmacological applications [1]. Pyrimidines are also reported to show anti-HIV, [2] antidengue [3] and anticancer [4] activities. The title compound DAPF, which has the amino substituent at the 4,6- position are found to be Troponin I-Interacting Kinase

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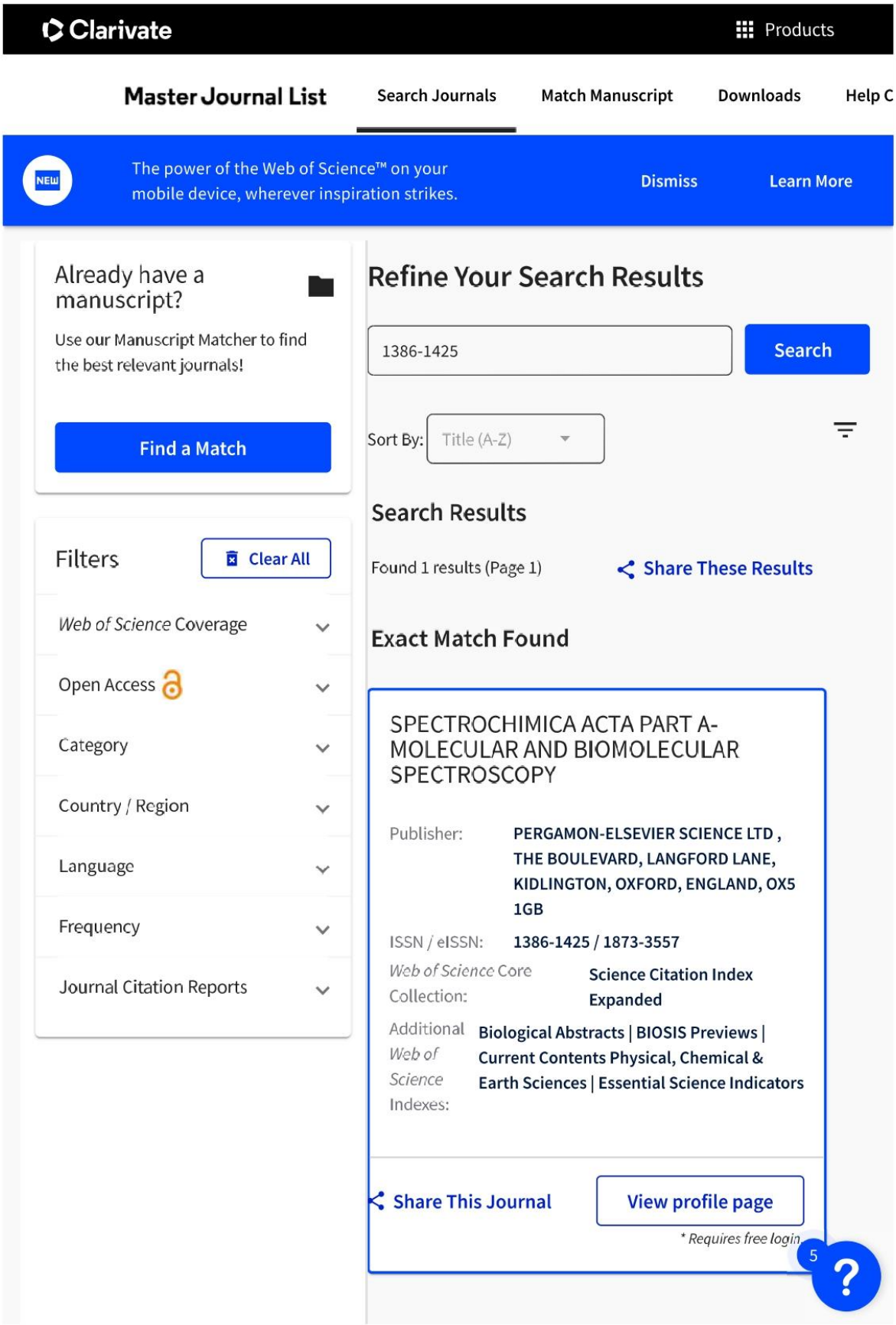
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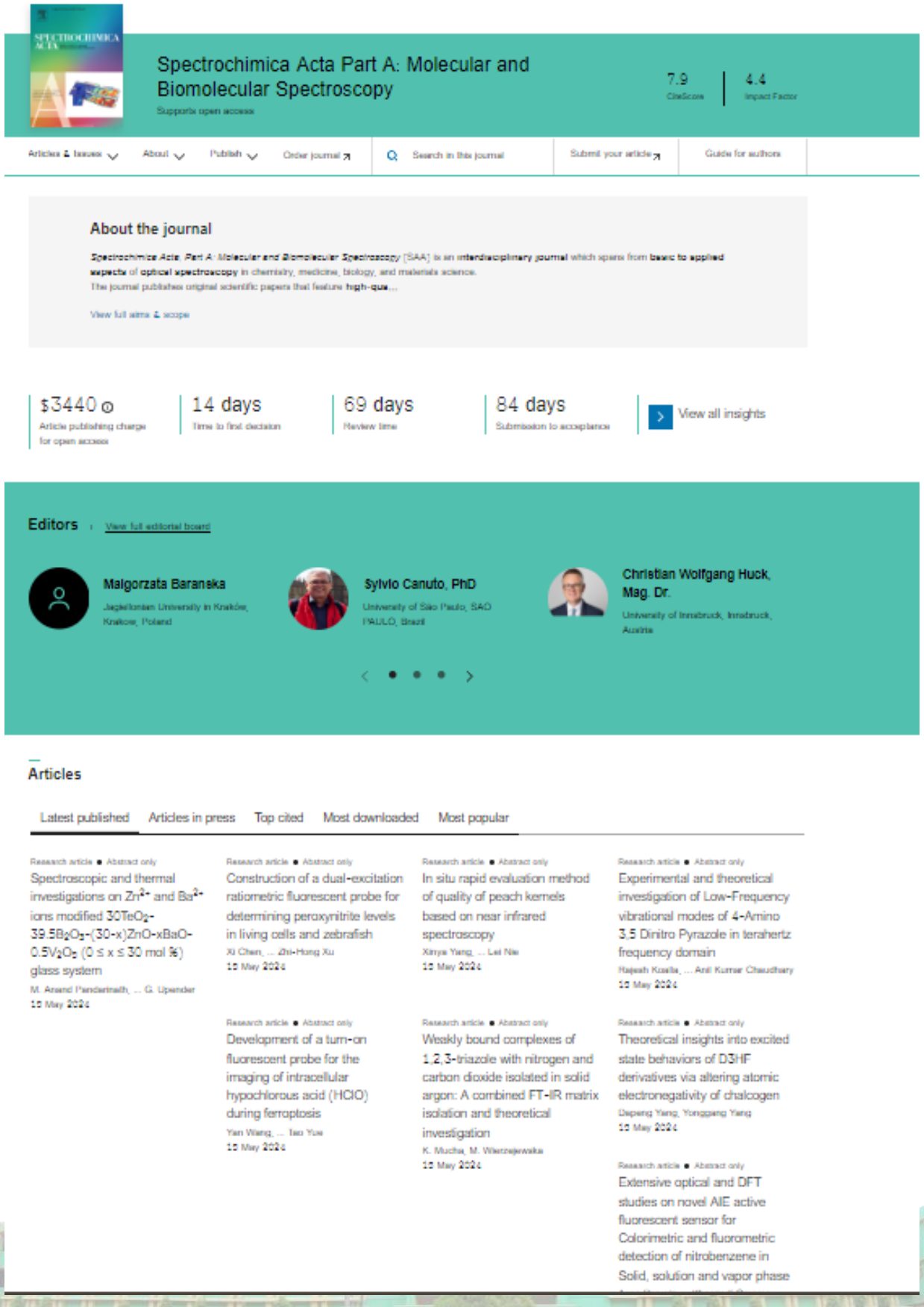

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Molecular structure, NBO analysis of the hydrogen-bonded interactions, spectroscopic (FT–IR, FT–Raman), drug likeness and molecular docking of the novel anti COVID-2 molecule (2E)-N-methyl-2-[(4-oxo-4H-chromen-3-yl)methylidene]-hydrazinecarbothioamide (Dimer) - quantum chemical approach

S.J. Jenepha Mary [a,1], Sayantan Pradhan [b], C. James [a,*]

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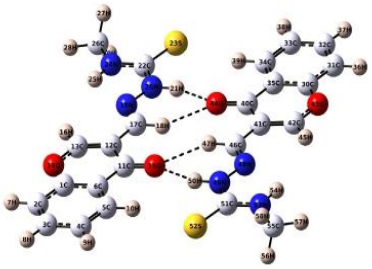
HIGHLIGHTS

- N—H···O intermolecular interactions elucidates the effect of hyperconjugation.
- C—H···O intermolecular interactions elucidates the effect of rehybridization.
- FT-IR and FT-Raman spectral analysis substantiates the red shift and blue shift in stretching frequencies.
- Drug likeness and ADMET analysis reveals pharmacokinetic properties.
- Molecular docking shows the interaction of MCMH with SARS-CoV-2 protease.

GRAPHICAL ABSTRACT



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(2E)-N-methyl-2-[(4-oxo-4H-chromen-3-yl)methylidene]-hydrazinecarbothioamide

ABSTRACT

Prospective antiviral molecule (2E)-N-methyl-2-[(4-oxo-4H-chromen-3-yl)methylidene]-hydrazinecarbothioamide has been probed using Fourier transform infrared (FTIR), FT-Raman and quantum chemical computations. The geometry equilibrium and natural bond orbital analysis have been carried out with density functional theory employing Becke, 3-parameter, Lee-Yang-Parr method with the 6-311G++(d, p) basis set. The vibrational assignments pertaining to different modes of vibrations have been augmented by normal coordinate analysis, force constant and potential energy distributions. Drug likeness and oral activity have been carried out based on Lipinski's rule of five. The inhibiting potency of 2(2E)-methyl-2-[(4-oxo-4H-chromen-3-yl)methylidene]-hydrazinecarbothioamide has been investigated by docking simulation against SARS-CoV-2 protein.

The optimized geometry shows a planar structure between the chromone and the side chain. Differences in the geometries due to the substitution of the electronegative atom and intermolecular contacts due to the chromone and hydrazinecarbothioamide were analyzed. NBO analysis confirms the presence of two strong stable hydrogen bonded N—H···O intermolecular interactions and two weak hydrogen bonded C—H···O interactions. The red shift in N—H stretching frequency exposed from IR substantiates the formation of N—H···O intermolecular hydrogen bond and the blue shift in C—H stretching frequency

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[1] Register number: 18113162132001.

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1386-1425/

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^{1}H NMR – A validation tool for supramolecular complexes of α-cyclodextrin with Antidiabetic drugs

S. Lizy Roselet [a], J. Prema Kumari [b]

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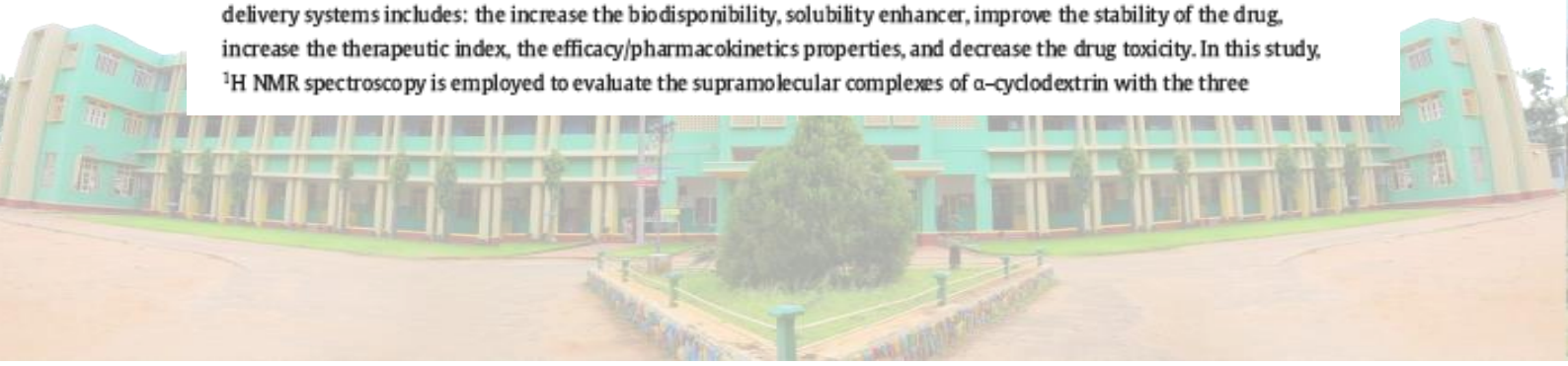
Abstract

Metformin hydrochloride, Pioglitazone hydrochloride and Glimepiride are antidiabetic drugs used in the treatment of Type–2 diabetes. In this study, supramolecular complexes of these three drugs were synthesized and characterized using ^{1}H NMR spectroscopy. The possible encapsulation of the drugs inside the supramolecular complexes were depicted according to the chemical shift variances of ^{1}H NMR of the host and guest molecules inside the inclusion complex. Nuclear Magnetic Resonance spectroscopy has been extensively employed in Chemistry and can be considered as one of the most complete spectroscopic techniques, due to its widefield of applications from structural elucidation of structures to investigations on intra/inter-molecular. ^{1}H NMR spectroscopy served as a validation tool for the supramolecular complexes. Therefore the supramolecular complexes could be used in enhancing the physico-chemical properties of the drugs thereby improving the efficacy of the drugs in the pharmaceutical industry.

Introduction

Metformin hydrochloride, Pioglitazone hydrochloride and Glimepiride are antidiabetic drugs used in the treatment of Type–2 diabetes. Cyclodextrins(CDs) are cyclic oligomers of glucopyranose units that play an important role as a host in inclusion complexes, where non–covalent interactions are involved. They have been extensively studied in supramolecular chemistry. Because of its biocompatibility, relatively non–toxicity and relatively low price, CDs have been widely employed for encapsulation of several substances, being used in food, cosmetic and pharmaceutical industries. Nuclear Magnetic Resonance spectroscopy has been extensively employed in Chemistry and can be considered as one of the most complete spectroscopic techniques, due to its widefield of applications from structural elucidation of structures to investigations on intra/inter-molecular [1], [2], [3].

Applications of NMR on CDs chemistry is so important that no other spectroscopic technique can provide the same wealth of chemical information on the supramolecular systems and it is the only technique that provides information on the right orientation of the guest molecule inside the cavity and also on other important parameters related to the physico-chemical characteristics of the inclusion complexes [4], [5], [6], [7].The main advantages of using CDs in drug delivery systems includes: the increase the biodisponibility, solubility enhancer, improve the stability of the drug, increase the therapeutic index, the efficacy/pharmacokinetics properties, and decrease the drug toxicity. In this study, ^{1}H NMR spectroscopy is employed to evaluate the supramolecular complexes of α–cyclodextrin with the three



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Plant mediated Synthesis and Characterization of Silver Nanoparticles Using the ethanolic extract of Mangifera indica Seed and their Antimicrobial Activity

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Corresponding Author

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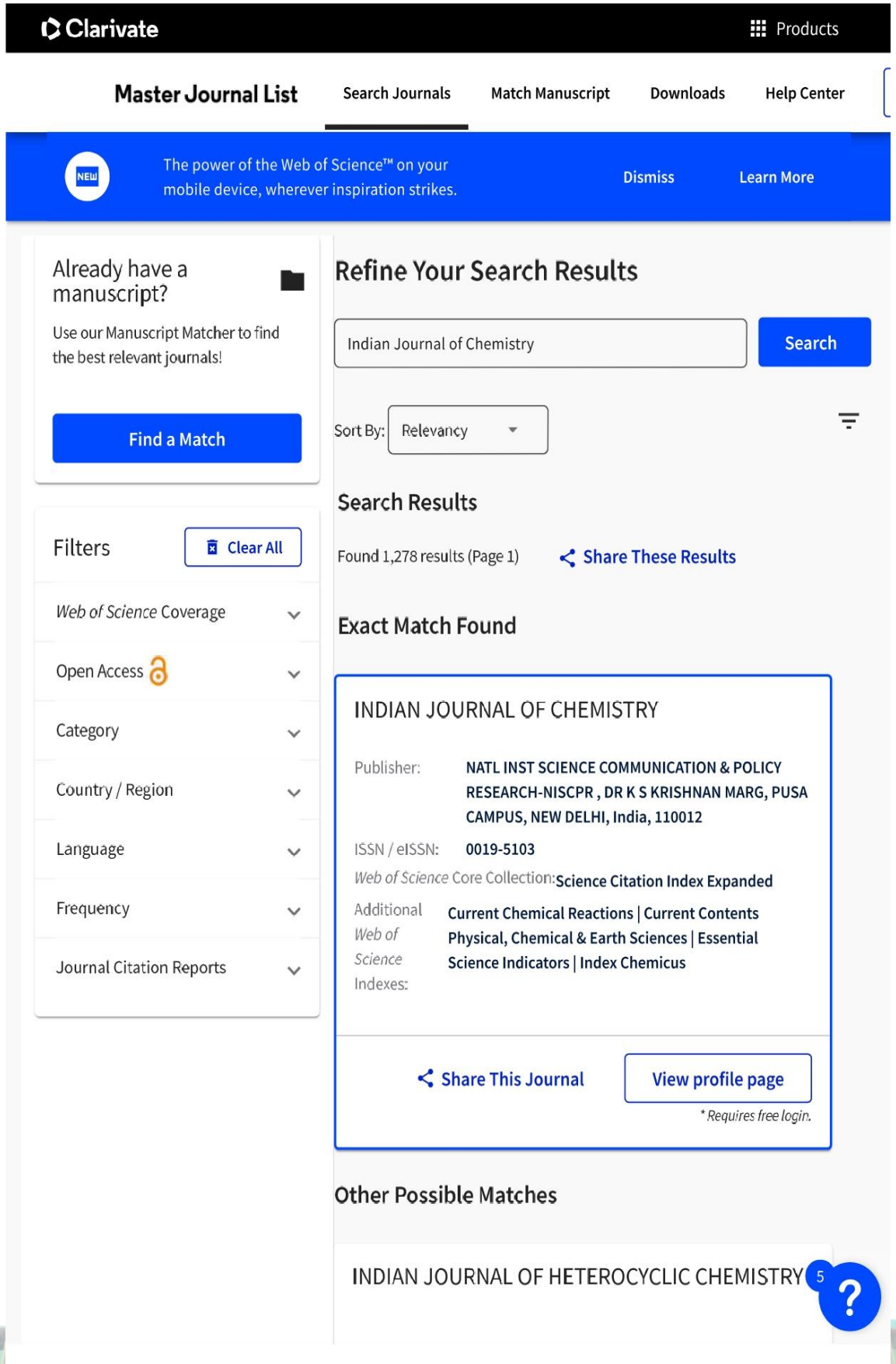
Abstract

Environment-friendly methods for the synthesis of silver nanoparticles become a valuable method in the current scenario. The utilization of phytochemicals from plant extract has become a unique skill for the synthesis of nanoparticles as they possess the dual nature of reducing and capping agents to the nanoparticles. In the present study silver nanoparticles were synthesized by using the ethanolic extract of Mangifera indica seed as a reducing and capping agent at room temperature. The formed nanoparticles were characterized by UV-Vis, FT-IR, XRD, SEM and EDAX and TEM. XRD shows the nanoparticles are crystalline. TEM shows particles are spherical and the size of the nanoparticles are in the range of 14.06 nm – 49.043 nm. FT-IR analysis shows that Mangifera indica seed extract capping in silver nanoparticles and has profound anti-microbial activity against the pathogens Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans and Aspergillus niger.

Keywords: Silver nanoparticles, Mangifera indica, Anti-microbial activity.

1. Introduction

Nanotechnology is a significant field that deals with particles size approximately 1 to 100 nm. The chemical, physical and biological properties are differing from their bulk and their properties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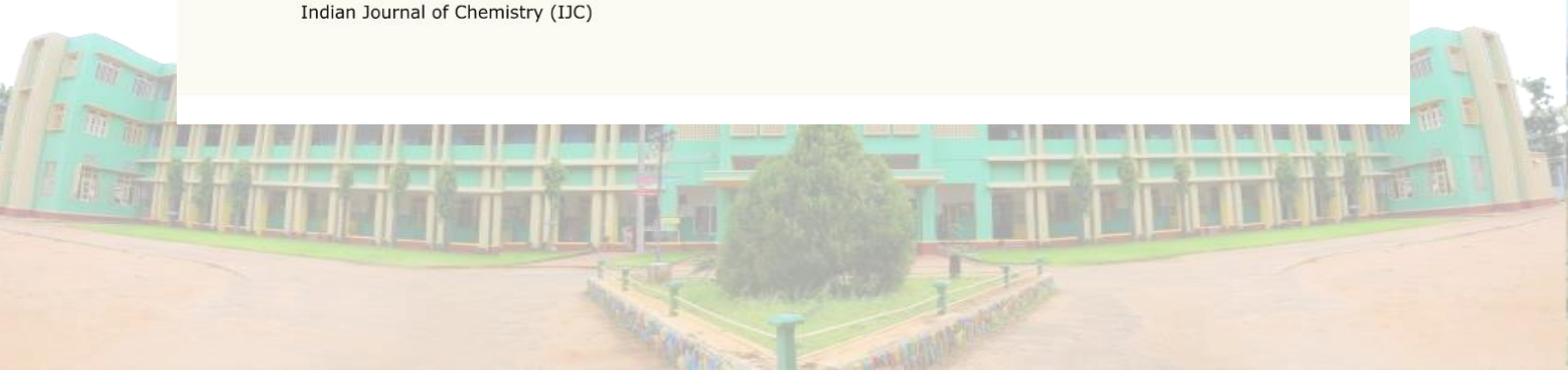

Indian Journal of Chemistry
Vol. 60B, February 2021, pp. 273-276

Computational calculations and molecular docking studies on 2-(2-ethylaminothiazol-5-oyl)benzothiazole

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2-(2-Ethylaminothiazol-5-oyl)benzothiazole has been synthesized and its bond length, bond angle, dihedral angle, HOMO-LUMO and Mulliken charges on the atoms have been calculated by density functional theory (DFT/B3LYP) method with 6-311++G(d,p) basis sets. Biological properties like the target receptor identification and identification of interacting residues, of this compound is identified and analyzed by using Openbabel GUI (C) software.

Keywords: DFT method, marine alkaloids, benzothiazole and molecular docking

Alkaloids have attracted the attention of humans due to their significant bioactivity. The chemical compounds, which are isolated from marine sources usually consists of nitrogen containing heterocyclic rings. Due to these promising biological activities, there has been a rapid growth of interest in the synthesis of this class of compounds and their analogues. Benzothiazole is a privileged heterocyclic scaffold found in a number of biologically important molecules and chemotherapeutic agents, which includes clinically used drugs. Based on this conjecture, we have conceived a tentative, retro synthetic analysis for the synthesis of benzothiazole analogs of alkaloid topsentin[1]. However, so far, no work has been reported on the vibrational analysis and molecular docking of 2-(2-ethylaminothiazol-5-oyl)benzothiazole (Figure 1). Hence, in the present work, a detailed vibrational analysis is carried out and for a proper understanding of the IR spectra a reliableassignment of all vibrational bands is essential. DFT calculations, particularly those based on hybrid functional methodshave evolved to a powerful quantum chemical tool for the determination of the electronic structure of molecules[2-8]. In this framework, the B3LYP hybrid exchange–correlation functional is one of the most used since it proved its ability in reproducing various molecular properties, including vibrational spectra[9-15] (Figure 2). The combined use of B3LYP functional and standard split valence basis set 6-31G(d) has been previously shownto provide an excellent compromise between accuracy and computational efficiency of vibrational spectra for large and medium-size molecules. In addition, molecular docking studies were carried out and, the mechanism of action of this compound on pancreas cancer cell line (PDB ID: BCL2), HIV-1 reverse transcriptase (PDB ID: 1RT2) and cytochrome P450 enzyme 14-alpha-demethylase of *M. tuberculosis* (PDB ID: 1EA1) is found and it is very much useful to develop efficient drugs.

Experimental Section

The title compound was prepared from 1-alkyl-3-(N,N-dimethylimidoyl)thiourea and 2-(2-bromo-acetyl)benzothiazole, which was prepared from 2-(1-hydroxyethyl)benzothiazole in DMF. The reaction mixture was stirred well and triethylamine was added. The reaction mixture was warmed at 80-85°C for 5 minutes. It was then cooled and poured into ice cold water with constant stirring. An orange precipitate thus obtained was filtered, washed with water and dried. The crude product was crystallized from methanol: water (2:1) and then from benzene:

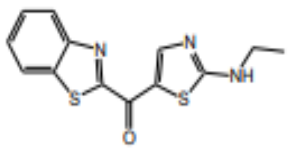

Figure 1 — Structure of 2-(2-ethylaminothiazol-5-oyl) benzothiazole

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Source details

Turkish Journal of Physiotherapy and Rehabilitation

Scopus coverage years: from 2018 to 2023

Publisher: Turkish Physiotherapy Association

ISSN: 2651-4451 E-ISSN: 2651-446X

Subject area: Medicine: Rehabilitation | Health Professions: Physical Therapy, Sports Therapy and Rehabilitation | Medicine: Orthopedics and Sports Medicine

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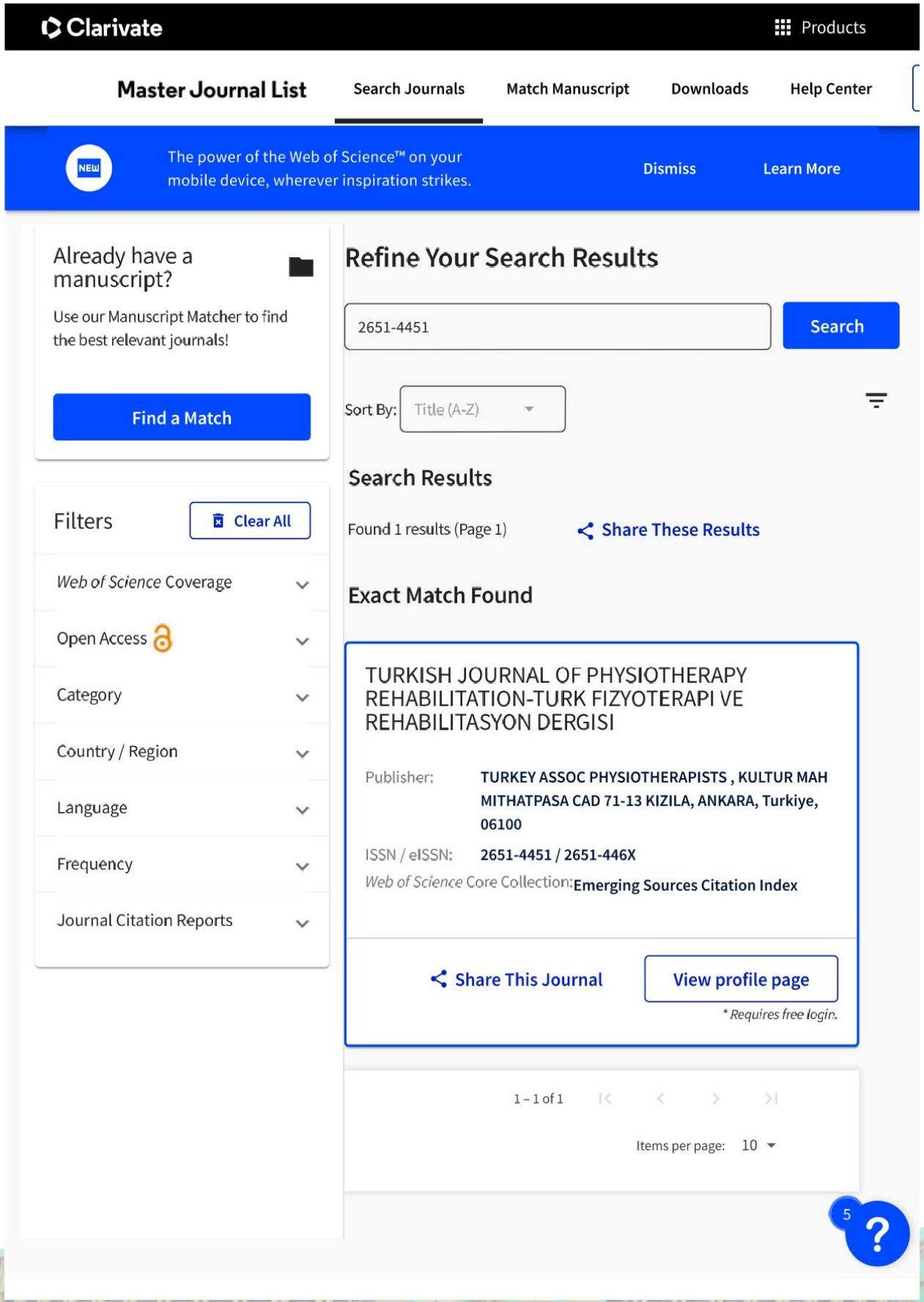
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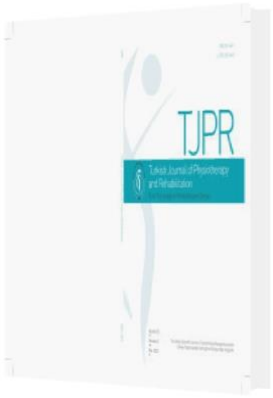

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FORMULATION OF VALUE-ADDED PRODUCTS FROM JAMUN SEED WITHOUT LOSS IN THE PHYSICOCHEMICAL AND MEDICAL PROPERTIES

R. Mahalakshmi[1], S. Devisri[1], J. Albino Wins[2], Pralay Ganguly[3], Niti Chawla[4] M.I. Niyas ahamed[5]

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ABSTRACT:

The aim of this study was to evaluate the physicochemical, proximate composition of Jamun (Syzygium Cumini) seed vitamins and minerals. The physical characteristics such as jamun color were registered as white to pink. The forms of the jamun seed were similar to the oblong forms. Jamun or Java plum seed was found to be long, wide and weight (18.20 mm, 11.05 mm and 1.62 g). Jamun seeds have been evaluated for their chemical composition as (53, 1.02, 3.84, 31.62, 7.01 and 1.51 g/100 g) such as moisture, crude fat, crude protein, carbohydrate or raw Fibres. The vitamin A (3 IU/100g), B3 (0.09 mg/100g) and C (0.21 mg/100g) presence values were recorded in jamun seed. Mineral values for jamun seed powder were iron, calcium, magnesium, phosphorus, potassium and zinc (0.140, 0.651,0.010, 0.072, 16.07 and 0.009 mg/100g). The conclusion was that the traditional medicinal plant seed jamun (*Syzygium Cumini*) provides a strong source of nutrients such as protein, fiber, vitamins, and minerals.

Keywords: Jamun fruits, Jamun seed, Physicochemical, Nutritional, Vitamin, Value Addition.

I. INTRODUCTION:

India is the source of many fruit cultivations and the majority of crops are confined to its growing area only. Their commercial production is lacking despite their high nutritional and medicinal properties. The majority of underused fruits are in many Ayurvedic formulations' core recipes. Jamun is the most common underused fruit that gains its popularity (Syzygium cumini). This species is native to Southeast Asia and India but has also been recorded as cultivated in Hawaii, Australia, Kenya, Florida, etc. The jamun fruits are grown annually and are available from June to July]. And jamun fruits are described as sweet savory berries. Kaatha, Narendra Jamun-6 and Konkan bhar doli are popular cultivars for jamun. The jamun fruit is a large berry, long-shaped and deep purple or bluish in colour. It has a purple pink pulp and a juicy fruit and a sweet fruit.

The world output of Jamun is estimated at 13.5 million tons annually, 15.4 percent of which was contributed by India. India is the second largest producer of Jamun in the world. In ayurvedic medicine, traditionally, jambul fruits, leaves, seeds and bark are used. For decades, Jamun seed powder has been used as a natural way to balance the amount of balanced blood sugar. It is a very tasty, detoxifying herb with properties to preserve normal urination and sweating. It has a hypolipidemic and cardioprotective immunomodulatory property. There are also studies on the antioxidant and radiation protection properties of the Jamun seed extract, as well as anti-inflammatory, anti-pyretic, anti-allergic, anti-bacterial and gastro-protective properties. It also works as a hepatic stimulant, digestive, cooling agent and blood purifier. Jamun seeds contain a glycoside, called jambolanas that helps to maintain glucose levels as normal. Ayurvedic text indicates that 1-3 g of jamun powder daily is an

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Volume 45, Part 2, 2021, Pages 2087-2090

Production and characterization of extracellular pectinase from a newly isolated Bacillus species from fruit waste soil

T. Murugan [a], P. Deepika [a], A. Kowsalya [a], K. Sivasubramanian [a], R.P. Rejisha [b], M. Murugan [b], J. Albino Wins [c]

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Abstract

The present investigation was carried for identification of pectinolytic bacteria and determination of their pectinolytic activity. The isolation was made from soil sample collected from fruit wastes. Screening of pectinolytic activity was achieved with pectin agar plate. Among 36 strains tested 12 shows pectinolytic activity. The potent isolate FWS II-4 was identified as *Bacillus* sp. and further used for enzyme production. Pectinase was produced by submerged fermentation and the purified. The purified enzyme demonstrated 3.40 mg/ml of total protein and 484.70 U/mg of specific activity. In characterization studies, the pectinase demonstrated good activity at pH 6.0 and 40 °C. Also, the bacterial strain showed maximum growth when the medium pH was 7.0 and incubated 37 °C.

Introduction

Pectin is large molecular weight polysaccharides that are commonly found in plants [1], [2], [3]. Pectinase is a complex of enzymes involved in the biological degradation of pectin [4]. Polygalacturonase is commercially used pectinase that cleave the glycosidic bonds present in the of galaturonic acid [5]. The pectinolytic enzymes have been classified into depolymerases, esterases and protopectinases [4], [6]. Pectinases are important in plants for fruit ripening, signaling and cell adhesion [7], [8].

Pectinase possess significant industrial importances that are used in the production of fruit juices, wines and vegetable oil [9], [10], [11]. It has remarkable applications in food, pharmaceutical, textile industry [12] and fruit juice wastewater treatment [13].

In global food enzyme sales, pectinases are accounts for approximately 25% [11] and 10% of the global industrial enzyme production [14]. Pectinases have been produced by many organisms include plants, nematodes, insects, bacteria, fungi mold, yeast, actinomycetes and protozons [15]. The majority of pectinases are produced by bacteria [16], fungi [17] and actinomycetes [18]. The bacterial isolates that are producing industrially important pectinase are including the bacterial genera such as *Bacillus*, *Pseudomonas* and *Staphylococcus* [18], [19]. Among these, *Bacillus* species has the significances to produce pectinase in large quantities [13], [20]. The study aimed to identify pectinolytic bacteria in fruit waste soil and study the characteristics of enzyme and bacterial isolate for obtaining commercially importance pectinase with high activity.

Section snippets

Soil sample

Fruit waste soil was collected in and around Arakkonam market area situated in Ranipet district, Tamil Nadu, India. The

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GC-MS analysis of biologically active compounds present in two different extracts of *Sansevieria cylindrica*

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Abstract

The present study focused the biologically active compounds present in two different crude extracts of *Sansevieria cylindrica*. The shade dried leaves were powdered and subjected to selective successive extraction using two different solvents i.e. benzene & hexane to obtain plant extracts. After that each of the extracts was further exposed to gas chromatography -mass Spectrometry. The resolution of the different biologically active compounds from crude extract of *S. cylindrica* using gas chromatography -mass spectrometry revealed different types of high and low molecular weight chemical compounds with varying properties. These chemical compounds are biologically and medicinally important. The two extracts possess major bioactive compounds that were identified and characterized spectroscopically. Thus, identification of different biologically active compounds in the leaf extracts of *S. cylindrica* shows biological and pharmacological activities.

Keywords: *Sansevieria cylindrica,* active compounds and GC-MS analysis

Introduction

Plants are reputed to have beneficial effects in the traditional system of medicine. The traditional medicine can be used to treat chronic as well as infectious diseases (Duraipandian *et al* 2006) [1] India is the largest producer of medicinal herbs and is called the botanical garden of the world Ahmedull and Nayar (1999) [2]. Plants are a rich source of secondary metabolites with remarkable biological activities. Natural products that come out from medicinal plants are important for pharmaceutical research and for drug development as a source of therapeutic agents. At present, the demand for herbal or medicinal plant products has increased significantly Dhivya and Manimegalai (2013) [3]. Different biological activities like anti-microbial, anti-oxidant, sedative and anxiolytic effects of the plant extracts due to the presence of active compounds. The secondary metabolites present in plants are the important source with a variety of structural arrangements and properties Kalaisezhiyen and Sasikumar (2012) [4]. Volatile compounds play an important role in health care systems by the medicinal plants. Volatile compounds are identified by the GC-MS analysis Hassanpouraghdam (2009) [5]. Gas chromatography-Mass spectrometry (GCMS) is a hyphenated analytical technique that combines the separation properties of gas-liquid chromatography with the detection feature of mass spectrometry to identify and determine the organic compounds from complex mixtures. Recently this technique was proved to be a valuable method for the analysis of nonpolar components and volatile essesntial oil, fattyacids, lipids and alkaloids (Xie *et al* 2013) [6]. *S. cylindrica* Bojer ex Hook,commonly known as Indian bowstring's hemp, is a stem-less herb arising from a creeping underground rhizome. The plant has long been the source of a fiber used for bowstring in India. The plant has also been reported to contain some important medicinal compounds Anis and Shahzad (2005) [7]. *S. cylindrica* is filled with bionutrients and is one of the most recommended plants for improving air quality. It is able to absorb 107 types of toxins, including air pollution, cigarette smoke (nicotine) (Cushnie *et al* 2008) [8]. Previous work reported that the compounds separated from this plant showed antifungal activity (Pettit *et al* 2005) [9], exhibiting inhibition of the capillary permeability activity (Da Silva Antunes *et al* 2003) [10] and antioxidant activity (Said *et al* 2015) [11]. So, the present study was aimed to investigate the chemical components and identification of the compounds by subjecting it to GC-MS analysis.

Materials and Method

Collection of Plant Material and Preparation of Plant Extracts

The collection of plant materials was done from Holy Cross College (Autonomous) campus, Nagercoil. Taxonomic identification of the plant was identified and authenticated by Dr. S. John Britto, Former Director, the Rapinat Herbarium and center for molecular systematics, St. Joseph's college Trichy-Tamil Nadu. India. A Voucher specimen has been deposited at the Rapinat Herbarium, St. Josephs College, Thiruchirappalli, Tamil nadu, India.

Preparation of Plant Extract

The collected plants were cleaned properly to remove adhering sand and dust particles on the outer surface of the plant. Then the plant was cut in to small pieces and shade dried. These dried samples were stored in airtight container for future purposes. The sample can be extracted by using two solvents benzene and hexane then the extract was evaporated to dryness using rotary evaporator. The final residue obtained was then subjected to GC-MS analysis.

The GC-MS Analysis

The benzene and hexane extract of plant was subjected to GC-MS at the Council of Scientific and Industrial Research-Central Salt and Marine Chemical Research Institute, Bhavnagar, Gujarat by using Q2010 Gas Chromatography Mass Spectrometer (GC-2020 coupled with GC-MS QP-

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Micropropagation of an endangered medicinal plant *Anaphyllum wightii* schott. through nodal culture

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Abstract
Micropropagation pave the way for multiplication of the plant, which are rare, endangered, threatened and are hard to multiply in natural condition. It plays a vital role in the conservation of plants which are under risk (rare, endangered). *Anaphyllum wightii* Schott. is an endemic and endangered plant species in Western Ghats of Kanyakumari district belonging to the family Araceae. It is unexplored and known for its therapeutic properties against poisonous bite and inflammation. Tribal communities use these plants as food and also prepare an oil with the addition of some more plants to treat snake bite.

Keywords: micropropagation, *Anaphyllum wightii* schott, rhizome, endemic, endangered, conservation

Introduction

Plant tissue culture is the *in vitro* aseptic culture of cells, tissues, organs or whole plant under controlled nutritional and environmental conditions often to produce the clones of plants (Thorpe, 2007) [1]. Tissue culture protocols have been developed for a wide range of medicinal plants, which includes endangered, rare and threatened plant species to ensure its conservation. Due to deforestation, urbanization, pollution, forest fire, overexploitation and other human activities, plant species are drastically decreasing every day. Australian forest fire in year 2019-2020 has destroyed large numbers of flora and fauna. At least half a billion animals and countless trees and plant have been killed, since the fire began in September 2019. More than 6.3 million hectares (63,000 sq km or 15.6 million acres) of forest land have been burned and many endemic plants may have been extinct. The Red list of threatened species, prepared by the International Union for Conservation of Nature (IUCN), has listed 132 species of plants and animals as Critically Endangered, from India. Plants seemed to be the most threatened life form with 60 species being listed as Critically Endangered and 141 as Endangered. Tissue culture plays an important role in conservation of these endangered species. *Anaphyllum wightii* is an endemic, endangered medicinal plant species belonging to the family Araceae distributed in the Southern Western Ghats, used to cure scabies and to prepare medicine for snake bite. Kanis of Kanyakumari district use the rhizome of *A. wightii* to treat snake bite and scabies but its medicinal property remains unexplored except the tribal community. The present study was aimed to multiply *A. wightii* using nodal explants to ensure its conservation status through micropropagation techniques.

Materials and methods

Selection and Sterilization of Plant Material Nodal portion was selected to be used as a source of explants. Nodes were trimmed from the rhizome and washed several times using running tap water then surface sterilized with detergent Tween 20 and washed with distilled water for about 20 minutes. Constant shaking was done during this period to get thorough sterilization. Later these explants were washed with double-distilled water for 10 min. Then explants were sterilized with 0.1% mercuric chloride for 3-5 minutes and rinsed with sterile distilled water to remove all traces. After that the explants were treated with 0.1% bavistin (Fungicide) and washed with distilled water for another 3 minutes. After the final wash, explants were spread on the sterilized petri dishes lined with sterile Whatman No.1 filter paper inside a laminar airflow chamber. Edges were trimmed using sterile surgical blade.

Culture Media

Murashige and Skoog medium commonly called as MS medium was selected as the optimal culture medium (Murashige and Skoog, 1962) [2]. Stock solutions of plant growth regulator was prepared using standard procedure. About 4.406 g powdered medium was dissolved in 900 ml of double distilled water in a 2-litre beaker. To this heat stable supplements such Sucrose 30 gm (3% per litre) and myoinositol 100mg was added. The solution was made-up to one litre by adding double distilled water. The made-up solution was divided into required part according to the hormone planned. The pH was adjusted with a single electrode electronic pH meter at 5.7, adjustment was done with 0.1N HCL and 0.1N NaOH. After adjusting pH, 0.8% agar was added to the medium and was heated (60°C) to dissolve the agar. Medium was dispensed into the culture vessels in sterile condition and kept in laminar flow hood before it gets solidify. The culture vessels plugged with cotton plug and bundled as 10-15 culture tubes per bundle. The bundles were wrapped with newspaper to avoid the unplugging of cotton during autoclave due to the pressure. The media was autoclaved for 20 minutes at 121oC. After autoclaving, culture tubes were placed in stands and kept under room temperature. These were then left to cool and

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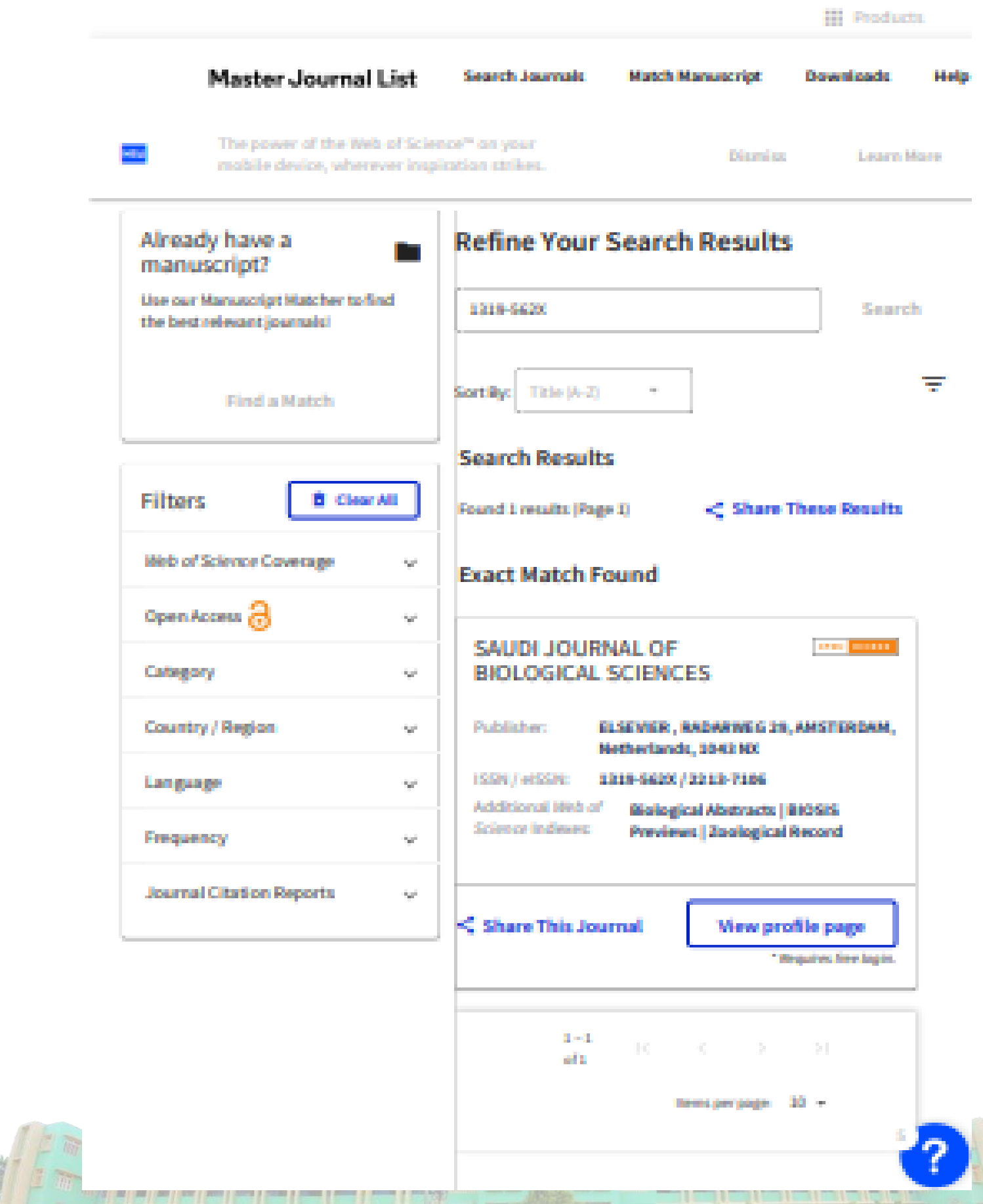
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Ghallab Alatalbi

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Saudi Journal of Biological Sciences

Volume 28, Issue 8, August 2021, Pages 4117-4123

Original article

In vitro fibrinolytic activity of an enzyme purified from Bacillus amyloliquefaciens strain KJ10 isolated from *soybean paste*

Jayarajapasham Rajaselvam [a], Natarajan Benit [b], Saqer S. Alotaibi [c], M.A. Rathi [d], Sriramkaram Sriqopalram [e], Ganapathiram Devadasan Biji [f], Ponnuswamy Vijayaraghavan [a]

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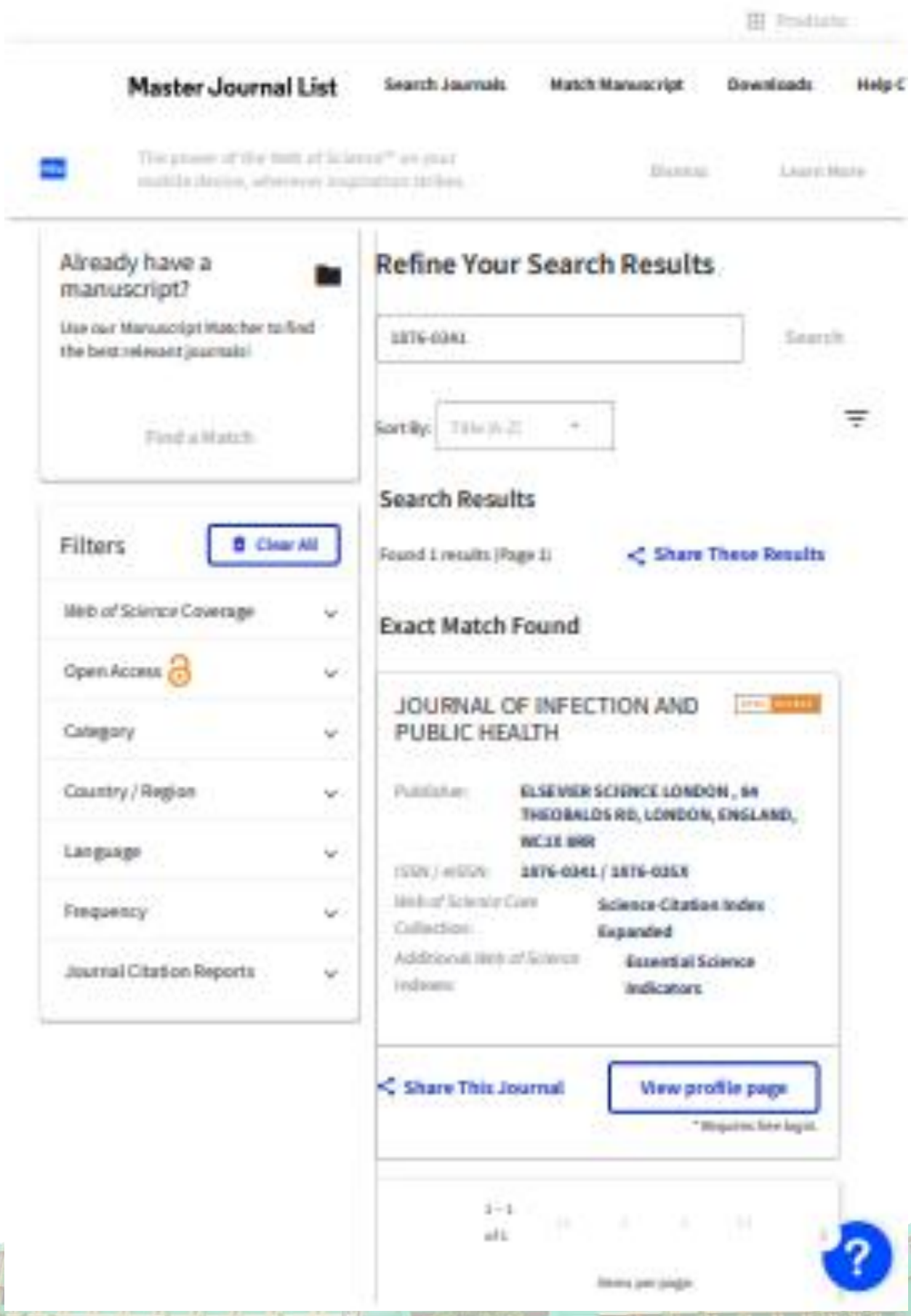
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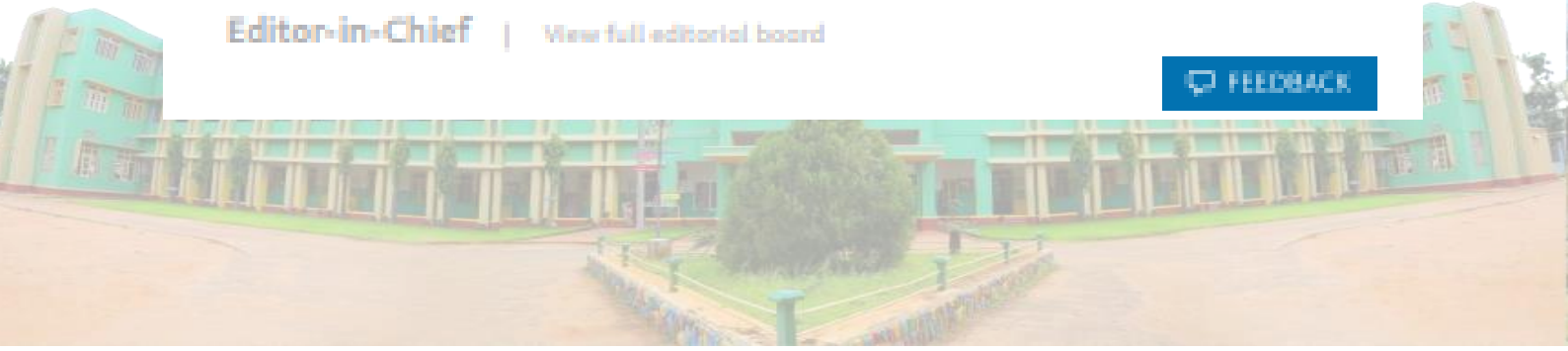

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Journal of Infection and Public Health

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Carbapenemases producing *Klebsiella pneumoniae* from the pus of hospitalized patients: In-vitro antibiotic properties of *Streptomyces* against multidrug resistant infectious bacteria

Balamuralikrishnan Balasubramanian [a], Natarajan Benit [b], Paul Agastian [c], Khalid S. Almaary [d], [R], Turki M. Dawoud [d], Yahya B. Elbadawi [d], Ayman Mubarak [d], Mohammed S. Alfadul [d], Reem M. Aljowaie [d]

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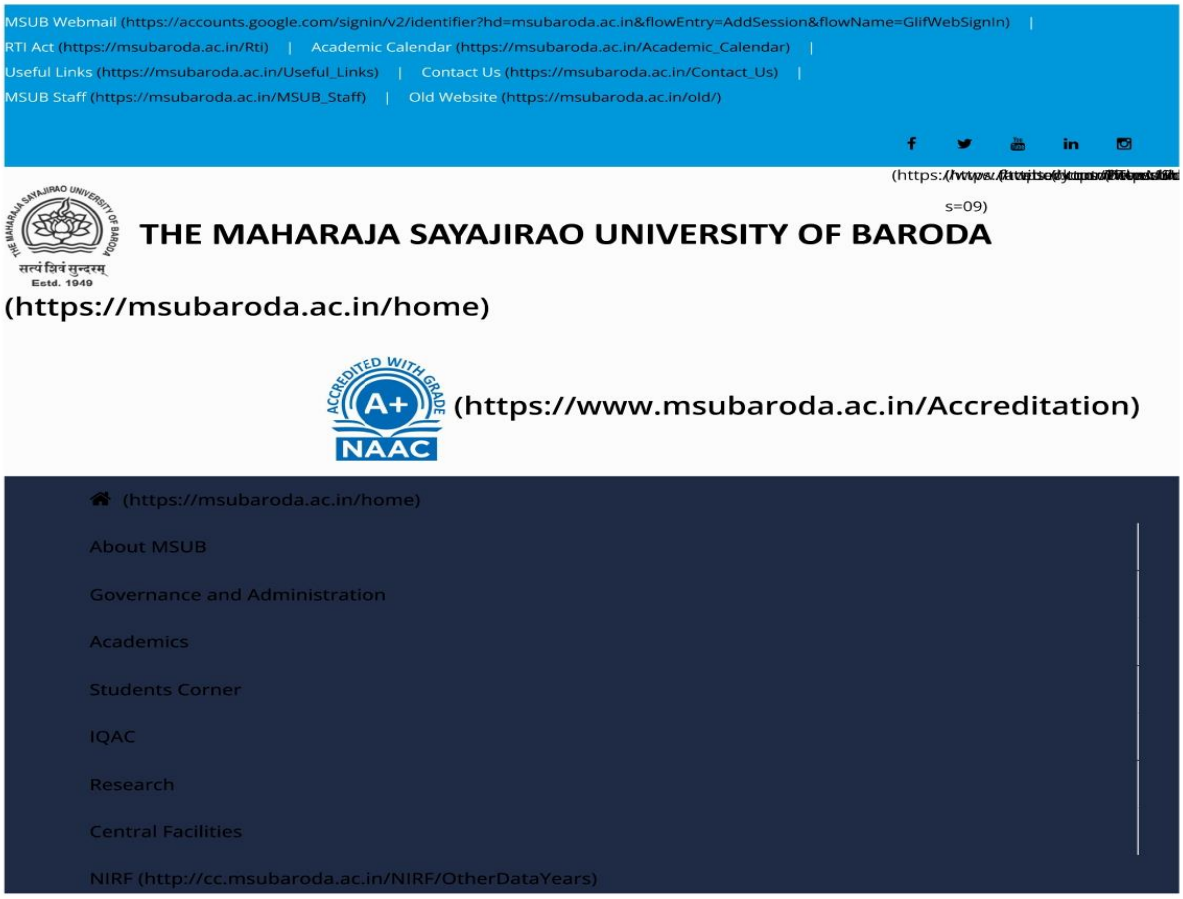

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BACTERIOLOGICAL CONTAMINATION OF GROUNDWATER IN RELATION TO SEPTIC TANKS OF KANYAKUMARI DISTRICT, SOUTH INDIA

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Abstract

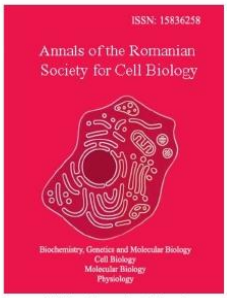
Water is an indispensable source for the survival of human life. Almost 80% of our earth's surface is covered by water. With increasing industrialization and urbanization, the scarcity and quality of water supply is increasing tremendously everyday. Apart from this, water is contaminated heavily by many industrial wastes. Hence, the quantity and quality of potable water is affected profoundly without its suitability for drinking as well as domestic purposes. To know about the present condition, investigation was carried out to enumerate the microbial population present in boreholes, with effect to septic tanks.

Keywords: Ground water, Boreholes, Water-borne diseases, Septic tank.

1. Introduction

The developing world depends upon ground water for their daily utilities.Increasing population and industrial developmentsresults withhigh water pollution, which indirectlyleads to environmental pollution. Water is considered as an indispensable source to the human life. Water scarcity is an important criteria concerned with population growth, industrialization and even urbanization. Groundwater has a great potency of satisfying human life throughout the world. But the activities of human beings leads to the deterioration of surface water.

According to the World Health Organization (WHO), pathogenic microorganisms should not be found in drinking water sources (Gorchev&Ozolins, 2011). Water contamination will leads to many water-borne diseases like cholera, dysentery, diarrhoea, typhoid fever etc . Most of the contamination arise from the



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Laser confocal microscopic study of callose in plants at nature submergence

The dispersion and relative substance of callose in cell dividers of epidermis, mesophyll and vessels of conductive packs of Potamogeton perfoliatus, Potamogeton pectinatus and Myriophyllum spicatum leaves with the laser confocal microscopy (LSM 5, Germany) and Pascal program dissected and contrasted with leaf anatomical qualities. Nature submergence animates callose creation in leaf cells of the epidermis and mesophyll. The reliance on content callose in cell dividers on species, tissue and plant stage advancement set up. It is uncovered that callose substance of mesophyll cells of plants during vegetative stage is significantly more in examination with that in leaves at the blossoming phase of plants.

Histological aspects of the esophagus at Chinchilla (Chinchilla lanigera)

From three clinically solid Chinchilla guys butchered by the proprietor for their hide, were gathered throat pieces having a place with the three unique regions: cervical, thoracic and stomach. The tissue pieces were handled by the paraffin incorporation strategy so as to perform histological examination. In each of the three distinct fragments, the esophageal mucosa is spoken to by a separated squamous epithelium with a granular layer twice as evolved contrasted and the spinosum layer and with a medium level of surface keratinization. Muscularis of the mucosa is all around spoke to and present in every one of the three fragments, with an attentive thickening inclination from the cervical to the stomach portion. It is arranged on a solitary layer and is framed from smooth muscle cells with longitudinal orientation.

The antioxidants are not enough. Malus sylvestris (L.) Mill. extract enhances the carbon tetrachloride liver toxicity in albino rats

Liver toxicosis prompted by CCl4 presentation is an authoritative model for steatohepatitis. Cancer prevention agents are as often as possible utilized for hepatoprotection yet now and again they have no advantageous impact dependent on the prooxidant properties or lattice harmfulness. Four exploratory gatherings (Control, Extract, CCl4 and CCl4 + Extract) of pale skinned person rodents were utilized so as to assess the impact of the hydroglycerin alcoholic Malus sylvestris (L.) Mill. separate in CCl4-prompted steatohepatitis. Blood transaminases and TNF? were expanded after CCl4 organization and cell-interceded provocative reaction was improved similarly with transaminases and TNF?.

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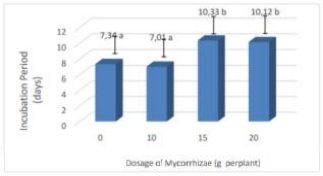

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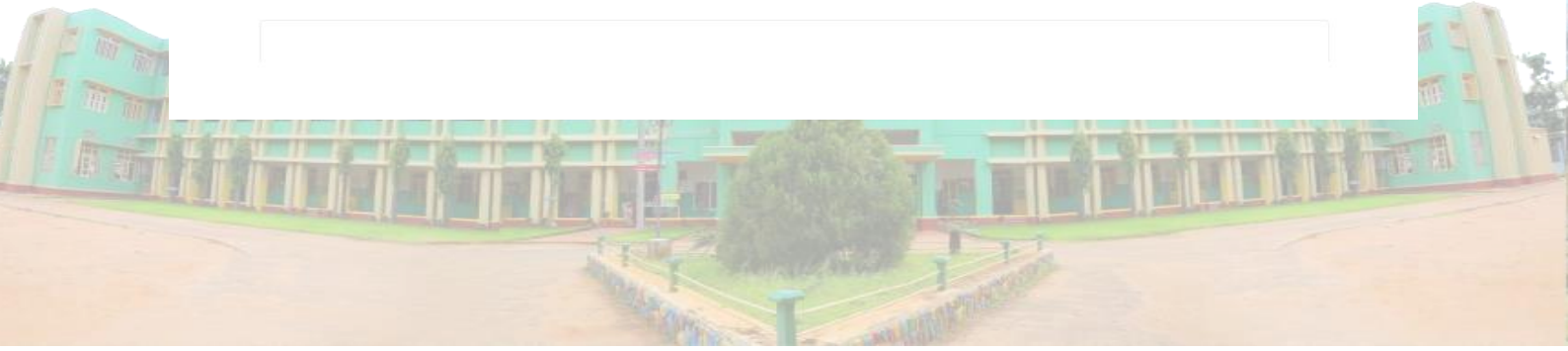
Effect of Mycorrhizal Fungi in Controlling Bacterial Leaf Disease in Lowland Rice Caused by Xanthomonas oryzae pv oryzae Bacteria
Abstract: Bacterial leaf blight on lowland rice caused by Xanthomonas oryzaepvoryzae (Xoo) is still an important disease. Yield loss could reached 30-40%. This research was carried out in the experiment station and the plant disease laboratory, Faculty of Agriculture, Syiah Kuala University, Banda Aceh with the aim to determine the effect of mycorrhiza in controlling....Read More (http://annalsofrscb.ro/index.php/journal/article/view/36)



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Phytochemical and Biological Screening of Organic Solvent Extracts of *Ipomoea Pes-Caprae*flower

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Abstract

Phytochemicals are extensively used as medicinal compounds for treatment of various ailments all over the world. Ipomoea pes-caprae is a medicinal plant and utilizing naturally derived plant product or drug is less dangerous. The phytochemical analysis, antioxidant, antimicrobial and anticancer activity of Ipomoea pes- caprae flower extract were studied. Phytochemical analysis reported the presence of carbohydrate, protein, amino acids, flavonoids, steroids, tannins, saponins and glycosides. Carbohydrate, protein, amino acid, alkaloid and flavonoids are the major components in the ethanolic flower extract. Ferric reducing antioxidant power (FRAP) assay, Nitric Oxide scavenging assay, and Hydroxyl scavenging assay of the ethanolic extract showed good scavenging and reducing activity and it possessed good antioxidant efficacy. The flower extracts were tested against three gram positive bacteria Staphylococcus aureus, Bacillus subtilis, Streptococcus mutans, three gram negative bacteria Proteus vulgaris, Klebsiellapneumoniae, Escherichia coli and three fungus Aspergillus flavus, Aspergillus niger and Penicillium sp., by disc diffusion method. The ethanolic extract showed antimicrobial activity against all pathogens and maximum zone of inhibition of 21 mm was recorded with Staphylococcus aureus and 20 mm with Penicillium sp. As a result of potential antimicrobial activity and bioactive compounds present in the ethanolic flower extract, it was tested against lung cancer cell line - A549 by MTT assay and it showed effective cell inhibition with IC50 value 55.2527µg/mL. It was also tested for the cytotoxicity against normal cell line-L929 and observed with IC50 value 161.45. This study revealed that ethanolic extract of Ipomoea pes-caprae flower can be evolved as a new drug

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42(9): 71-81, 2021
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ISOLATION OF OIL DEGRADING BACTERIA FROM ENGINE OIL CONTAMINATED SOIL

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AUTHORS' CONTRIBUTIONS

This work was carried out in collaboration among all authors. Author MJJ designed the study, performed the statistical analysis, wrote the protocol, and wrote the first draft of the manuscript. Author FBR managed the analyses of the study and the literature searches. All authors read and approved the final manuscript.

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Original Research Article

ABSTRACT

Contamination of soil surface by used lubricating oil is a common occurrence in most developing countries. These hydrocarbon pollutants have harmful effects on the environment and human beings. Using hydrocarbon degrading microbes can be an alternative green technology for remediation of contaminated soil. The purpose of the present work is to evaluate the effectiveness of microorganisms indigenous to the soil in remediating the soil pollutant. Used engine oil contaminated soil samples were collected from service stations and motor garages located in Kirathoor, Mankadu and Nithiravilai of Kanniyakumari District. Hydrocarbon utilizing bacteria was isolated by its lipase producing activity. Oil utilization efficiency is estimated by counting total cell number of microbes at 24 h and oil displacement assay. A total of thirteen hydrocarbanoclastic bacteria were isolated from Kirathoor, Mankadu and Nithiravilai workshops engine oil contaminated soil. Among the thirteen bacteria only seven are identified as lipase producing bacteria and are identified as *Acenetobacter*, *Pseudomonas* and *Proteus*. Maximum of oil utilization efficiency was observed in *Acenetobacter* and *Pseudomonas* species at 2% and 4% of oil supplementation respectively. *Proteus* and *Acinetobacter* species showed positive result in oil displacement assay indicating the secretion of biosurfactant to degrade spilled oil. From the present work it is concluded that biosurfactant producing bacteria can be used for remediating oil spill area.

Keywords: Bioremediation; hydrocarbanoclastic; oil displacement assay; biosurfactant.

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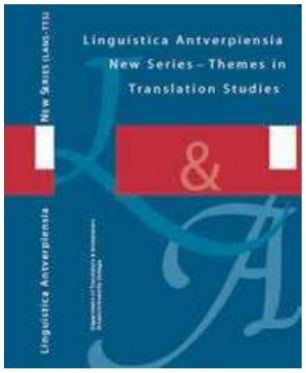

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Function of Brain in L2 Learning - Neurolinguistic Perspective

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Abstract

Language learning is a basic concept of all over the world. To learn a foreign language, there should be proper guidance and proper coaching. The students should know the rules and principles which are followed by the native speakers. L2 learning is not an easy task, at first all grammatical rules and the phonetics have to be taught to the learners. There are several methods which are used for training an individual in English. Grammar Translation method is the pioneer method which is followed in 19th century. After few years, Bilingual method, Translation method, Eclectic method are introduced for foreign language teaching. All these methods are completely formal and focus upon direct learning and teaching process. These methods are formal and boring so that there is a lot of chance for the students to get deviated from learning. Grammatical rules and syntax are boring part in a language study. So there should be a better method for learning a language. The present generation focuses on Neuro science as

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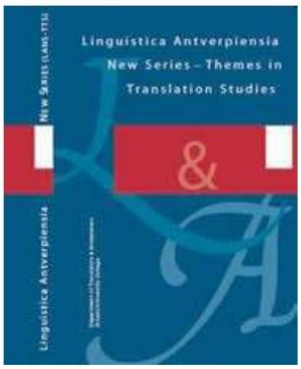

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The Prominence of Innovative Ideas and Technologies in ELT Classroom

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Learning English language is entirely basic for making opportunities. English as it is known, is a worldwide language which makes a simple access with various tongues of the world. Learning English language keeps away from false impressions in language development and communication process. The role of innovation in learning English language through cooperation would clear away boundaries in complete comprehension of feelings. Human language can be verbal or non-verbal that passes on feelings. Everything is identified with human feelings, which can be passed on through language. Language is a scholarly mine where an individual can discover supportive for the basic living. It could be productivity and displacement, and depends totally on social show and learning. People secure language through social collaboration in early adolescence and youngsters by and large smoothly. This paper focuseson the degree of utilizing inventive showing

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BBRC

Teaching of English Using Online Tools During Pandemic

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ABSTRACT

The Covid-19 pandemic has affected all the elements of the global citizens including educational institutions. Government announced to close all the education institutions including schools, colleges and universities to reduce the spread of Covid-19. The face to face language teaching has shifted to online teaching. Online teaching encourages the learners participate actively in the learning process. Teachers use innovative technology in their teaching process by altering the teaching methods. The various online applications and testing tools have enhanced the LSRW skills of the learners. It also motivates and enhances the learners' interest in learning in a non-threatening atmosphere, wherein learning has become less stressful. Teachers use various online tools and platforms during the Covid-19 pandemic in their teaching which supports learning without leaving the values of traditional learning. The game-based application is a new approach to education which has motivated the learners and also has created a positive change among the learners. This paper focuses on online teaching tools, applications and platforms which enhance learning during the Covid-19 pandemic.

KEY WORDS: COVID-19, TECHNOLOGY, ONLINE TEACHING, INNOVATIVE TECHNOLOGY, ONLINE TOOLS.

INTRODUCTION

Language is a source of communication through which we share our ideas, feelings, views and thoughts with others. English is the widely used language in international trade, mass entertainment, communication, journalism, tourism and scientific publications. Most of the native and non-native speakers of English use English as their mode of communication in the trade business. English is used as the de facto language in the field of science and technology. English is also used by some world organizations such as UNO, WHO, UNESCO, UNICEF, etc. The Covid-19 disease has affected all the elements of the global citizens and government announced to close all the educational institutions including schools, colleges and universities to reduce the spread of Covid-19. The face to face language teaching has shifted to online teaching. Learning through the implementation of technology has increased in the recent modern world. Technology is a best tool for learners to learn and it is an effective tool for them which also promoted critical thinking and problem solving.

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The different kinds of technological devices were used to enhance listening, reading and writing skills are through power point, game-based applications and audio visual devices. The audio visual aids used in teaching English help the learners to learn the language more effectively. Listening, speaking, reading and writing are the essential skills for learning any language. These skills are learnt using various applications during the Covid-19 pandemic. The game-based application used by the teachers in their teaching made the learners to learn with interest and fun. It develops interest and increases motivation among the learners. Most of teachers have a positive attitude towards online teaching during the Covid-19 pandemic which enhances their interest in learning. During the Covid-19 pandemic several arrangements has made for the learners by the Ministry of Human Resources Development (MHRD) including online portals and educational channels on television and radio for learners to continue learning. Social media tools such as Google Meet, Zoom, YouTube, Facebook, etc. are used for online teaching and learning. Teachers face many difficulties and challenges in online teaching due to lack of experience, knowledge and interest.

Impact of Covid-19 in Education System: The spread of corona virus disease and global lockdown has affected all elements of the global citizens including the educational system. The government decided to close educational institutions temporarily to reduce the spread of Covid-19. Schools were shutdown in response to the pandemic and it affected approximately 825 million learners. According to

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TECHNOLOGY ENABLED LANGUAGE LEARNING USING CALL AND MALL

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ABSTRACT

The paper titled "Technology Enabled Language Teaching using CALL and MALL" aims at exploring the effectiveness of language teaching using CALL and MALL wherein the traditional methods of teaching were not inculcated. It also highlights the teaching of English language during the pandemic. This paper gives a detailed account of the different ICT tools and computer and mobile applications that are used by the teachers of English predominantly during the pandemic. These applications enable the learners to think critically and interact meaningfully. The learners are engaged in meaningful interaction with the advent of technology. It also critiques on the pros and cons of technology enhanced language learning using Computer Assisted Language Learning (CALL) and Mobile Assisted Language Learning (MALL). It further adds the effective use of these techniques in classroom and the impact in the field of education irrespective of time and place.

Keywords: Computer Assisted Language Learning, Mobile Assisted Language Learning, Language Learning, Computer and Mobile Application, ICT.

INTRODUCTION

In the past few decades Information and Communication Technology (ICT) has provided society with new hope for better future. ICT refers to technology that provides access to information through telecommunications. ICT is similar to Information Technology, but it focuses communication technology that includes internet, mobile phone, wireless network, broadcasting

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Discipline	Science
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Focus Subject	General Agricultural and Biological Sciences , General Biochemistry, Genetics and Molecular Biology , General Engineering , General Mathematics
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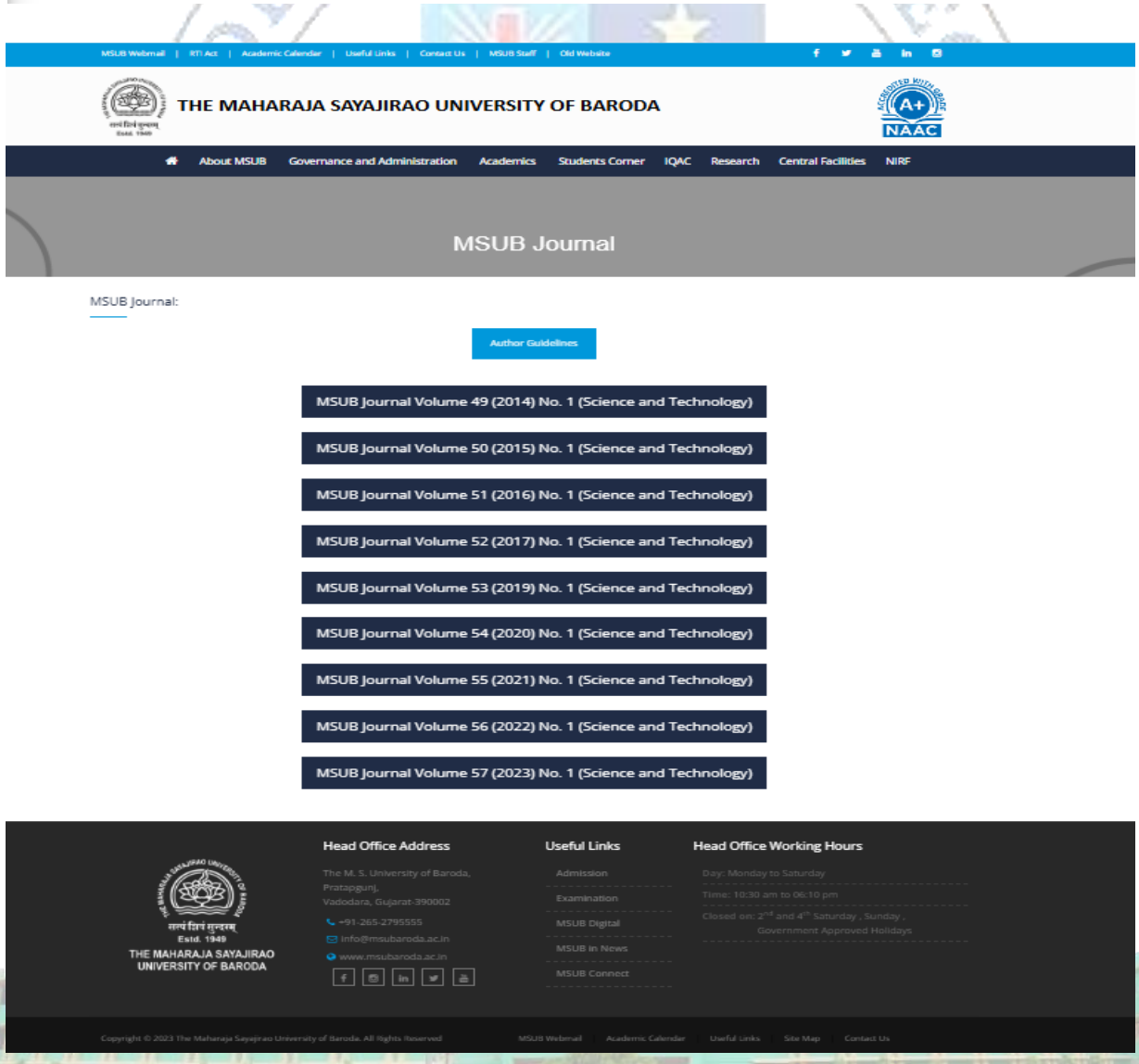

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Psychological Realism in Helen Benedict's *Wolf Season*

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Abstract

Literature reflects society. Various techniques and methods are used by writers to expose the contemporary issues of the society. A happy society is formed by its members having a sound mind and healthy body. A war- torn society needs people with peaceful mind to reconstruct it. This paper is a critical study of Helen Benedict's *Wolf Season* (2017) from the perspective of Psychological realism. The paper also exposes the inner thoughts of the characters through which the author expresses the sufferings of refugees and soldiers on and off the battlefield. It also highlights the measures taken by

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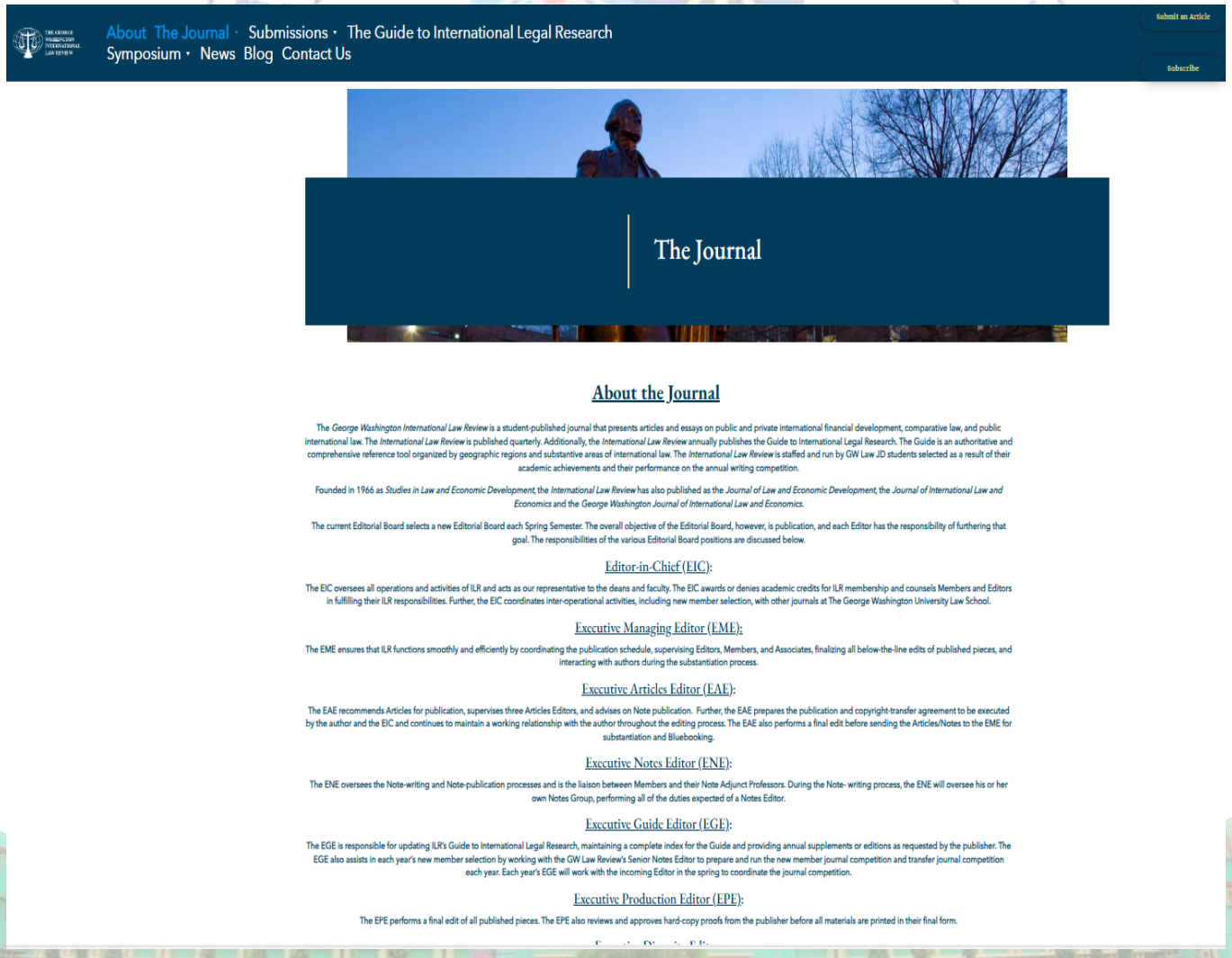

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THE DESOLATE HOPE OF AFGHAN WOMEN IN ATIQ RAHIMI'S THE PATIENCE STONE

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Abstract
Afghan literature hinges upon a rich heritage of oral and written traditions, a lot of which, albeit, encompasses several heartrending incidents. In particular, the ideas of Atiq Rahimi, a renowned French–Afghan writer and filmmaker, have echoed through time in various forms. They have, in fact, been a welcome addition to the field of Afghan history as they provide a highly accessible and stimulating account of a specific aspect of such history. That said, it is an exceptionally unfortunate fact that Afghan women have been faceless and voiceless for a really long time. Rahimi, through an extraordinarily powerful novella titled The Patience Stone, successfully gives face and voice to such women. The novella is an unrestricted confession and expression of an Afghan woman about love, sex and the patriarchal society as well as her anger against her husband who never understands her feelings and never respects her, nor treats her with compassion. This paper sheds light on the desperate lives of Afghan women and their experiences of being subjected to different forms of violence by the patriarchal society. The Patience Stone highlights the tragic realities of the torment inflicted upon Afghan women on a regular basis and how they endure in the poverty-stricken, war-torn, patriarchal environment of their homeland.

Keywords: Patriarchal, violence, voiceless, Afghan women, The Patience Stone, Atiq Rahimi

With a significant concern for gaining a deeper understanding of the literary revolution, the present study analyzes the representation of Afghan women in Atiq Rahimi's The Patience Stone, a haunting novella with an exploration of love, marriage, sex and war. It is a rich history that includes an inseparable combination of pain, voice and emotions. Broadly speaking, The Patience Stone is a traumatic exploration of the torment inflicted upon Afghan women. In Persian folklore, the patience stone is generally referred to as Sang-e Saboor, a magical black stone that absorbs the plight of those who confide in it. Be that as it may, the present context refers to Sang-e Saboor not as a stone but as a man, in fact a soldier, who has been comatose for over two weeks, with a bullet in his neck, and shows no signs of recovery. His wife, the innominate protagonist of the novella, cares for

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Memory and Landscape as Agents of Creativity in Seamus Heaney's *Electric Light*

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Abstract

The ecological background, which a poet chooses to set his poem in, becomes a dominant force that dictates the poetic lines and determines the course of thought of the text. And memories of the past, especially of childhood, are often linked to the physical environment which shapes a poet gifted with remarkable sensibility. The Irish poet Seamus Heaney writes location-specific poems which are often interlinked with the memories of boyhood, the days he had spent in the northern countryside. Hence his poems exude a strong aroma of Irishness which encompasses the green, blue and brown shades of nature. The spatio-temporal quality of the effect a landscape creates in an observer can very well be observed in the poems of Heaney's collection *Electric Light.*

Key Words: Memories, location-specific poems, Irishness, spatio-temporal quality.

Seamus Heaney is a poet whose poetry cannot be defined in simpler terms. Harold Bloom claims that Heaney's poems express an "agnostic way of a stronger poetry, necessarily denser, more allusive, and persuasively difficult (14)." Hence he holds the most prestigious position on the global stage of poetry and balances his preoccupations with canonical self-awareness"(Moi 172). And his poems are rich with intense Irish experiences. His early poems are a natural response of a young man to a rural pastoral surrounding in which he grew up. Nicholas Allen says that, "his poetry seems impossible to uproot from its locality. The northern countryside that nourished and often troubled his imagination is the metaphor for the poet's ideas of family, community and, by extension, nationality."

The rich Irish environment has always been Heaney's muse provoking him to often

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Research Article

An Overview Of Aesthetics In The Select Verses Of Bhrathiyar And Vairamuthu

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Article History: Received: 11 January 2021; Revised: 12 February 2021; Accepted: 27 March 2021; Published online: 23 May 2021

Abstract : Crafting of beauty is tapas and the artist who crafts it is a yogi and there is no hiatus between the mundane and the divine. The wafer-thin line between the gross and the subtle gets blurred raising one to the level of *yogi*. This paper entitled "An Overview of Aesthetics in the Select Verses of Bharathiyar and Vairamuthu", gives a bird's eye view and delineates how a heightened form of perception and sensitivity is needed to enter into aesthetic rapture. Aesthetics is a branch of philosophy and it is closely associated with art. As a science it is the science of perceptible forms and accounts for nature, source, purpose and creative process of art.

Key Words: Aesthetics, Rasa, Art, Beauty, Nature

1. Introduction

The word *Aesthetics* is derived from the Greek word *aisthetikos* meaning 'of sense perception'. Most of the scholars believe that aesthetics is a sub discipline of axiology. Axiology is the study of the nature of value and valuation, and of the kinds of things that are valuable. Arts may be poetry, music, dance, literature and so on. It can be divided into several categories like performing, literary and plastic arts. Art is a kind of human creativity that may be formed by human experience of thought, emotions and feelings and is also an activity of expression and communication. The concept in the human mind or the pre-conceived notion is expressed through communication. In the words of Sri. Aurobindo,

The poet has in him a double personality, a double instrument of his response to life and existence. There is in him the normal man absorbed in mere living who thinks and feels and acts like others, and there is the seer of things, the supernormal man, the super- soul or delight- soul in touch with the impersonal and eternal fountains of joy and beauty who creates from that source and transmits by its alchemy all experience into a form of the spirits' Ananda. (Aurobindo 410)

Any creation of art first disturbs the original state of that particular art to create something new. Anything can be created in the world from a prominent and original state whatever it is. According to Immanuel Kant, a German Philosopher, aesthetics is a unitary and self-sufficient type of human experience. As aesthetics is the theory of beauty and art, Kant proposed that theory of pure beauty has four aspects. They are,

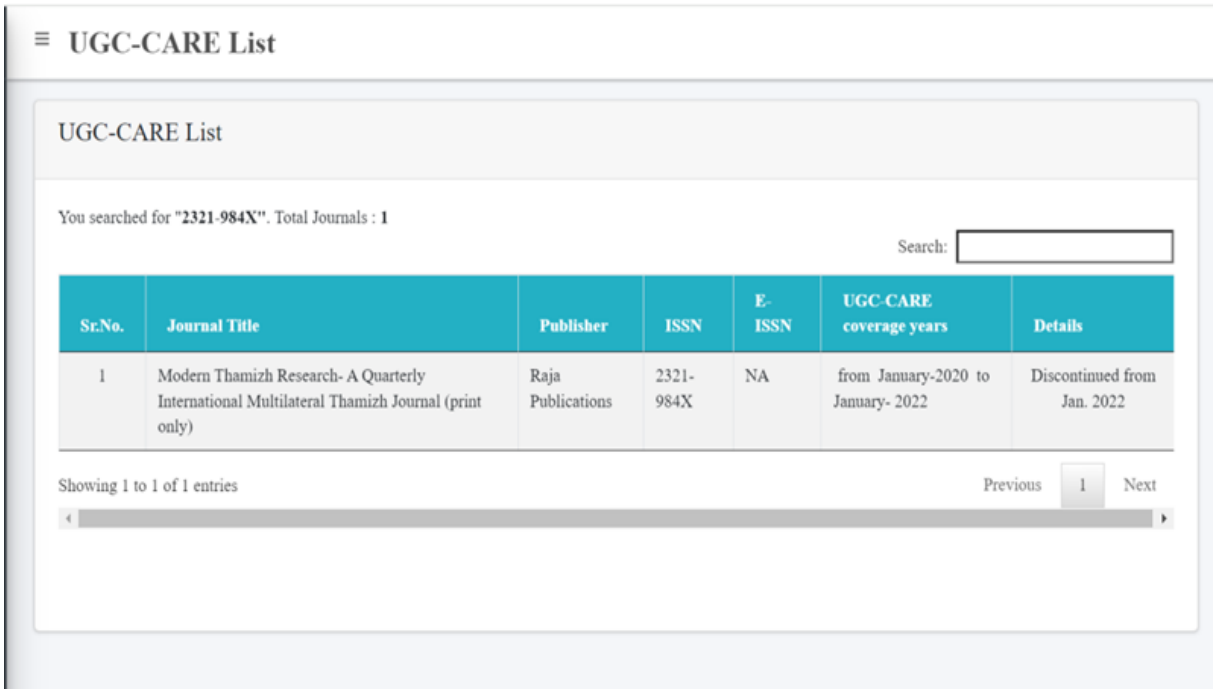
"It's freedom from concepts, its objectivity, the disinterest of the spectator, and its obligatoriness" (Tiwary 3).

Aesthetic quality and the meaning vary from people to people. It may be the significance of its content, interest among the audience and readers, the creative nature of its forms and the different artistic taste of the audience. Shiv Shanker Tiwary in his work *Encyclopedia of Aesthetics* says that, Art not only draws interest of the pleasure but also includes hobbies, travels and sports. He says that when a work of art is expressed it should have some moral considerations and ethics. In sports, travels and hobbies there may or may not be any moral values. It may be a person's personal qualities but in poetry, art and literature there are certain prominent and valid points regarding moral ethics.

Aesthetics, the traditional form of art criticism, takes into account the conceptions of the artist and the history of the traditions and the culture in which the artist lived and worked. Tiwary further adds that the functions of art can be divided into three groups relating to

Representation, Expression and Form. Art involves in the catharsis or purgation of the emotions and is appreciated according to the taste of the audience and their responses. According to Tiwary, "Creation is not a process, but a public achievement it is a matter of breaking the tape ahead of others in a certain race" (Tiwary 15).

Aesthetic considerations of the visual arts are closely associated with the sense of vision. There are various categories of art like digital art, maps, marketing, music, performing arts, literature, gastronomy, Information technology, mathematics, Industrial design, architecture and interior design, urban life, landscape design and fashion design. In Tiwary's point of view, art is a heightened form of perception, and it is called Taste, Sensitivity or Judgment.



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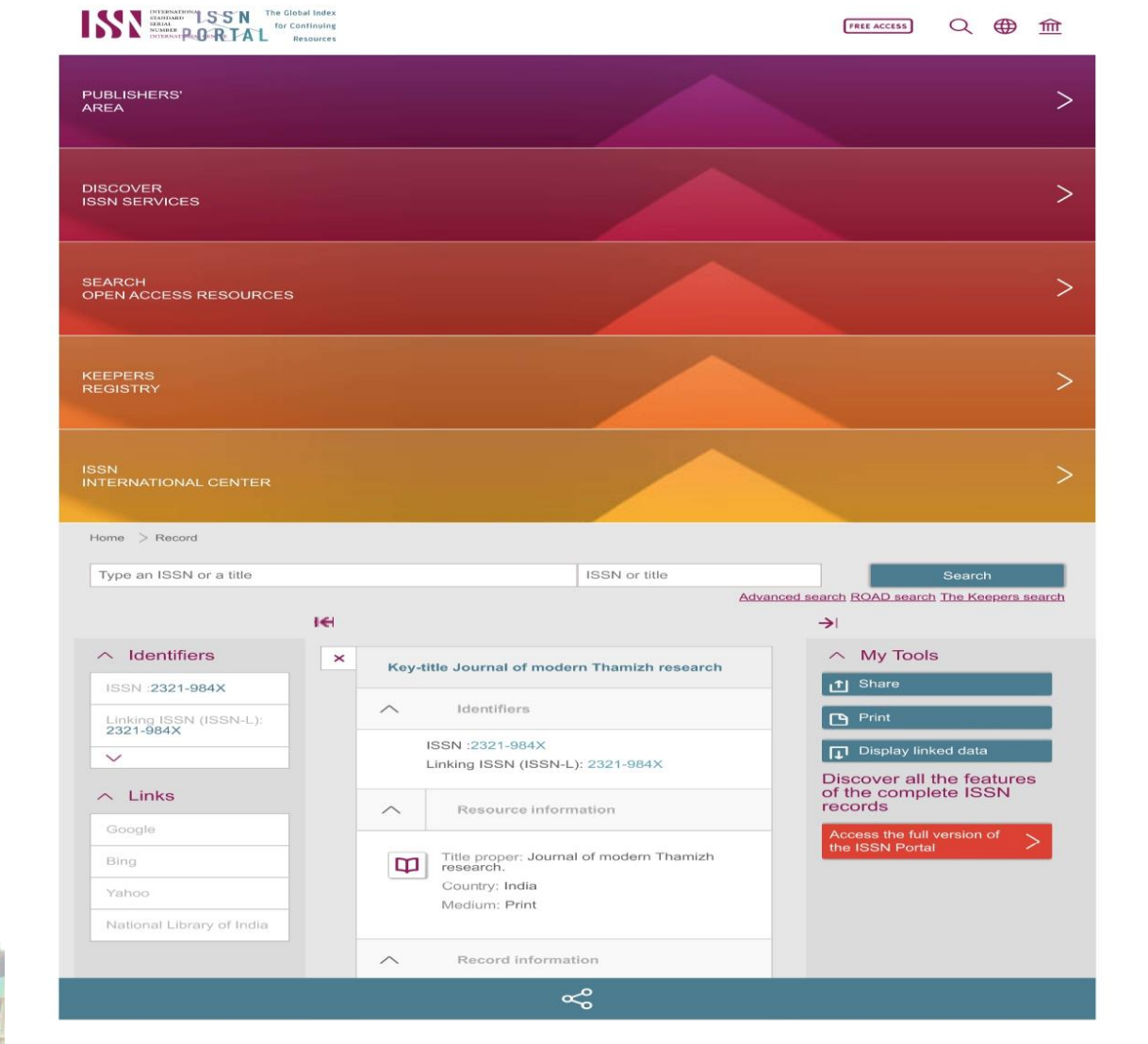

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எழுத்திலக்கியத்தில் கிறிஸ்தவ பெண்தெய்வம்

முனைவர் செ. தேன்மொழி
உதவிப் பேராசிரியர், திருச்சிலுவை கல்லூரி,
நாகர்கோவில், தமிழ்நாடு, இந்தியா

ஆய்வுச்சுருக்கம்

எழுத்திலக்கியத்தில் கிறிஸ்தவ பெண்தெய்வம் எனும் பொருண்மையில் சிற்றிலக்கிய வகைகளுள் ஒன்றான அம்மானை இலக்கிய வடிவில் வீரமாமுனிவர் எழுதிய கித்தேரியம்மாள் அம்மானையை முதன்மை ஆதாரமாகக் கொண்டு இவ்வாய்வுக் கட்டுரை அமைந்துள்ளது. நாட்டுப்புற தெய்வ வழிபாட்டுடன் தொடர்புடைய கன்னித் தெய்வ வழிபாடு கிறிஸ்தவ சமயத்தில் எவ்வாறு இடம்கொண்டுள்ளது என்பதை கித்தேரியம்மாள் எனும் ஒரு புனிதையைப் பற்றிய தரவுகளை மட்டும் வைத்து ஒப்பு நோக்கப்பட்டுள்ளது.

கலைச்சொற்கள்

கித்தேரி, கித்தேரியம்மாள் அம்மானை, வீரமாமுனிவர், கிறிஸ்தவ பெண் தெய்வம், கன்னித் தெய்வ வழிபாடு

முன்னுரை

தனிநாயகம் அடிகளார் தமிழைப் பக்தியின் மொழி என்று போற்றினார். உலகில் பல மொழிகள் இருப்பினும் தமிழ்மொழியே இறைவனை வணங்கி வழிபடுவதற்கு ஏற்ற மொழியாகக் கருதப்பட்டது. அதனை மெய்ப்பிக்கும் பொருட்டு தமிழில் அதிக அளவில் பக்தியிலக்கியங்கள் காணப்படுகின்றன. பலசமயம் சார்ந்த இந்த பக்தியிலக்கியங்கள் தமிழுக்கு மேலும் வளம் சேர்ப்பவையாக உள்ளன. இவ்வரிசையில் கிறிஸ்தவ பக்திலக்கியங்களும் குறிப்பிடத்தக்கவை. அவற்றுள் வீரமாமுனிவர் எழுதிய கித்தேரியம்மாள் அம்மானை எனும் கிறிஸ்தவ சிற்றிலக்கியத்தை முன்னிறுத்தியே இவ்வாய்வுக் கட்டுரை அமைந்துள்ளது.

கிறிஸ்தவமும் தமிழும்

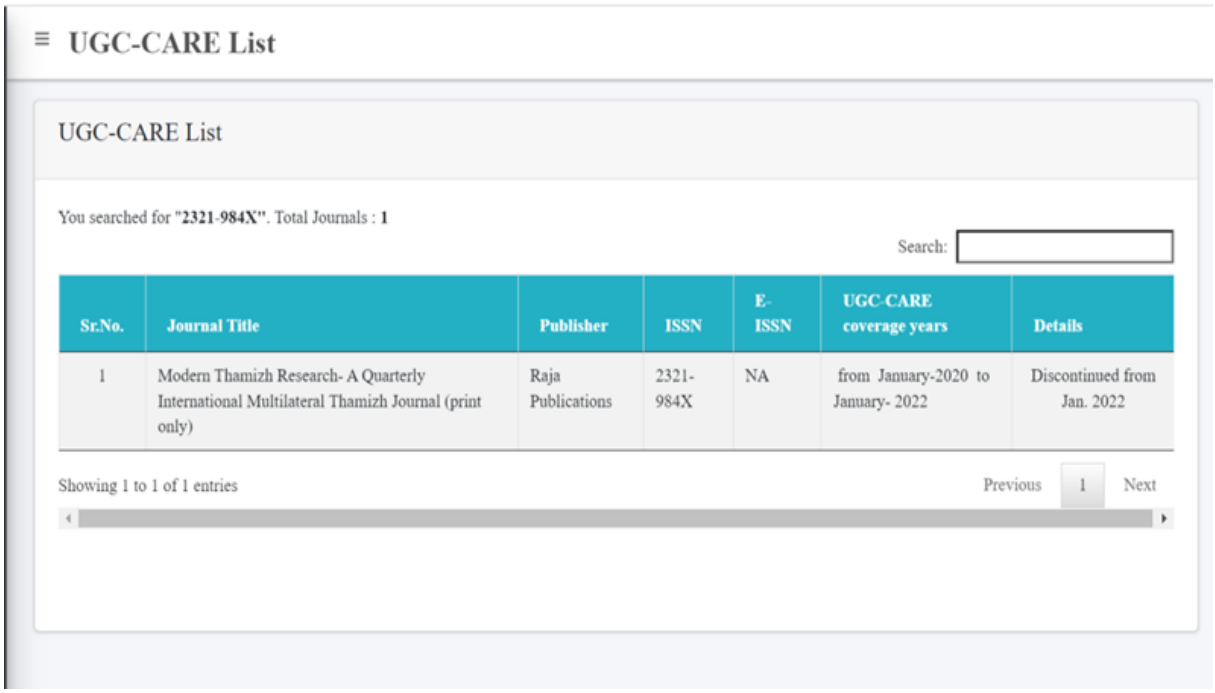
சைவ, வைணவ இலக்கியங்களைப் போன்றே கிறிஸ்தவ இலக்கியங்களும் தமிழ்மொழியின் வளர்ச்சியில் பங்காற்றியுள்ளன. எழுத்துச் சீர்திருத்தம், அச்சு இயந்திரம் கண்டுபிடிப்பு, நூல்களைப் பதிப்பித்தல், உரைவிளக்கமளித்தல், இலக்கணம் இலக்கியம் அகராதி படைத்தல், புத்திலக்கிய படைப்பாக்கம், மொழிபெயர்ப்பு, திறனாய்வு, இதழியல் என பலநிலைகளில் கிறிஸ்தவர்களின் தமிழ்ப்பணி அமைந்துள்ளது. மேலைநாடு, தமிழ்நாடு கிறிஸ்தவர்களில் மேலைநாட்டு கிறிஸ்தவர்களின் தமிழ்ப்பணி மிக முக்கிய பங்கு வகிக்கின்றது. அவர்களில் குறிப்பிடத்தக்கவர் வீரமாமுனிவர்.

வீரமாமுனிவரும் தமிழும்

1680-ஆம் ஆண்டு நவம்பர் 8-ஆம் தேதி இத்தாலி நாட்டில் கான்ஸ்டான்டைன் ஜோசப் பெஸ்கி பிறந்தார். இயேசுசபை குருவான இவர் கிறிஸ்தவ மதத்தைப் பரப்ப 1710-ஆம் ஆண்டு தமிழகம் வந்தடைந்தார். கிறிஸ்தவ மதத்தை எல்லா மக்களிடமும் கொண்டு சேர்க்க வேண்டும் என்ற நோக்கில் தமிழ் கற்கத் தொடங்கியவர் தமிழ் மேலுள்ள ஆர்வத்தினால் அதில் மிகுந்த புலமைப் பெற்றார். தமிழ் மேலுள்ள பற்றால் தன் பெயரை வீரமாமுனிவர் என்று தமிழ்ப்படுத்திக் கொண்டார். எழுத்துச் சீரமைப்பில் தொடங்கிய இவரது தமிழ்ப்பணி செய்யுள்நடை, உரைநடை எனும் வடிவங்களில் இலக்கணம், இலக்கியம், அகராதி என பல்துறைச் சார்ந்து அமைந்தது. வீரமாமுனிவர் பன்மொழி புலமை மிக்கவராக விளங்கியமையால் மொழிபெயர்ப்புத் துறையிலும் சிறந்து விளங்கினார். சமயப்பணி, சமுதாயப்பணி, தமிழ்ப்பணி என பல நிலைகளில் அவர் தொண்டாற்றினார். இவர் எழுதிய சிற்றிலக்கியங்களுள் ஒன்றுதான் கித்தேரியம்மாள் அம்மானை.

அம்மானை

அம்மானை மகளிர் விளையாட்டுகளில் ஒன்றாகும். இரண்டு அல்லது மூன்று பெண்கள்



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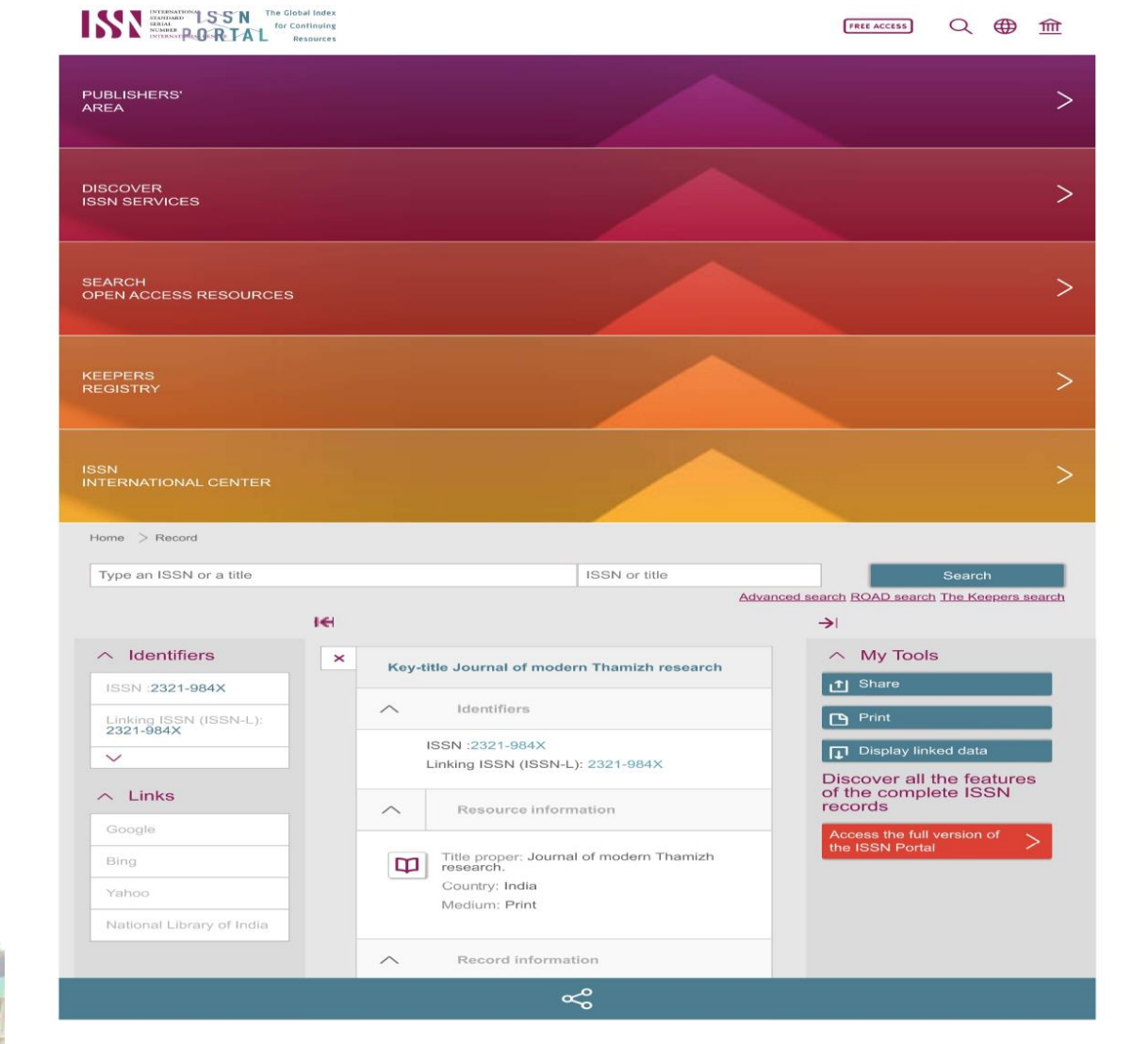

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அறிவியல் பெட்டகம்-தமிழ் இலக்கியங்கள்

முனைவர் செ.கனிதா
உதவிப்பேராசிரியர், தமிழ்த்துறை
திருச்சிலுவை கல்லூரி, நாகர்கோவில்

ஆய்வுச் சுருக்கம்:

மனித குலத்தின் அறிவு வளர்ச்சி நாளுக்கு நாள் விரிவடைகின்றன. அதனால் புதிய கருத்துக்களும், புதிய சிந்தனைகளும் தோற்றம் பெறுகின்றன. இலக்கியங்களும் இலக்கணங்களும் மொழியின் வளர்ச்சியை முடிவு செய்த நிலைமாறி இன்று அறிவியல் வளர்ச்சியே மொழிவளமையின் முதன்மை காரணியாக அமைந்துள்ளது. அறிவியல் என்பது மானிட வாழ்வியல் என்ற கூறுமனவிற்கு அறிவியலும் வாழ்வியலும் இணைந்து செயல்படுகின்றன. இயற்றமிழ், இசைத்தமிழ், நாடகத்தமிழ் எனும் வரிசையில் அறிவியல் தமிழ் எனும் புதுப்பிரிவைச் சேர்க்க வேண்டிய சூழல் உருவாகியுள்ளது. தமிழ் இலக்கியத்தில் இடம்பெற்றுள்ள தகவல் தொடர்பு, தாவரவியல், விலங்கியல் செய்திகள், கணிதச் செயல்பாடு, சுற்றுச்சூழல் விழிப்புணர்வு, தண்ணீரும் உணவும், உண்ணும் முறை, தன் சுத்தம் பேணல் போன்ற கருத்துக்கள் அறிவியல் ஆய்வு கண்ணோட்டத்துடன் விளக்கப்பட்டுள்ளன.

முன்னுரை:

மிக விரைவாக வளர்ந்து வரும் அறிவியலை ஒவ்வொரு மொழியிலும் தனதாக்கி கொள்ள உலகம் முழுவதும் முயற்சிகள் நடந்த வண்ணம் உள்ளன. ஒரு மொழியின் பயன் முழுமையானதாக இருக்க வேண்டுமானால் அது ஒரு சமுதாயத்தின் வளர்ச்சிக்கும், வாழ்வுக்கும் தேவையான செய்திகளை தன்னுள் அடக்கியதாக இருக்க வேண்டும். இந்த அடிப்படையில் உருவாக்கப்பட்ட மொழிப்பிரிவே அறிவியல் தமிழ் எனலாம். கணிப்பொறி அறிவியலை உள்வாங்கிக் கொள்வதில் தமிழும் தமிழரும் பெற்றுள்ள உலக அளவிலான வெற்றியை அறிவியல் தமிழின் மாபெரும் வெற்றியாகக் கொள்ளலாம் நம் தமிழ் மொழியைச் செம்மொழியாக்கிய பெருமை நம் இலக்கியங்களுக்கு உண்டு. அன்பு, ஆளுமை, காதல், வீரம், கடமை, கண்ணியம் என பன்முக உணர்வுகளைப் பதிவுசெய்த நம் இலக்கியங்களுக்குள் அறிவியலைத் தேடும் முயற்சி தான் இவ்வாய்வு. தமிழ் இலக்கண இலக்கியங்களான தொல்காப்பியமும், எட்டுத்தொகையும், பத்துப்பாட்டும், பதினெண் கீழ்க்கணக்கும், அகமும் புறமும் எடுத்துக்கூறும் அறிவியல் சிந்தனை, இன்றைய கால அறிவியலோடு சேர்த்து இக்கட்டுரையில் ஆய்வு செய்யப்பட்டுள்ளன.

தகவல் தொடர்பியல்:

மனிதனின் நாகரிகமும் பண்பாடும் படிப்படியாய் வளர்ச்சி பெற்றது போல தகவல் தொடர்பியலும் பல்வேறு கட்ட பரிணாம வளர்ச்சி பெற்று இன்று "நம் விரல் நுனியில் உலகம்" என்கிற அளவில் இத்துறை வளர்ச்சி கண்டுள்ளது. நமக்கு இன்று கிடைக்கின்ற தொன்மையான இலக்கண நூலான தொல்காப்பியமும் இதனைப் பற்றிய செய்தியை நமக்கு கூறுகிறது.

"ஓதல் பகையே தூது இவை பிரிவே"
(தொல்-971)

என்ற நூற்பாவின் மூலம் ஒருவன் தன் குடும்பம் அல்லது இருப்பிடம் விட்டு தொலைவிடத்திற்குச் செல்வதற்கு மூன்று

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புறநானூற்றில் காணப்படும் அறிவியல் கருத்துக்கள்

முனைவர் மா.தே.அருண் மொழி நங்கை
உதவிப்பேராசிரியை, தமிழ்த்துறை,
திருச்சிலுவை கல்லூரி(தன்னாட்சி), நாகர்கோவில்.

முன்னுரை:

பல நூற்றாண்டுகளுக்கு முன்பிருந்தே தமிழர் நாகரிகத்தில் சிறந்து விளங்கியவர்கள். அறிவியல் அவர்களிடம் பலமுறைக் கலைகளாக விளங்கின. மனிதன் வாழும் சூழ்நிலை, உலகம்,பிற கோள்கள் முதலியவற்றின் அறிவியல் உண்மைகளை நன்கு அறிந்து வைத்திருந்தான் என்பதை சங்க இலக்கியங்கள் நமக்கு உணர்த்துகின்றன. இன்றைய காலகட்டத்தில் உள்ளது போன்று தனித்தனியாக அறிவியல் துறைகளைப் பிரித்து வைக்கவில்லையாயினும் அறிவியல் அறிவுடையவனாகவே திகழ்ந்தான் என்பதற்கு இலக்கியங்களில் பல சான்றுகள் நமக்கு கிடைக்கின்றன. உலக நாடுகளில் வசதி படைத்தவை எல்லாம் பூமிக்கு வெளியே என்ன இருக்கிறது என்பதை அறிய ஆவல் கொள்கின்றன. அதற்காக பெரும் பொருளை செலவிடுகின்றன. விண்கலன்களை ஏவி நிலவையும், கோள்களையும், சூரியனையும் கூட வேவு பார்க்கின்றன. எனினும் இவர்களை விட வானவியலைப் பற்றி பண்டைத்தமிழர் நன்கு தெரிந்து வைத்திருந்தனர். குறிப்பாக புறநானூற்றில் காணப்படும் அறிவியல் குறித்து இக்கட்டுரையில் காண்போம்.

வானியல்:

உறையூர் முதுக்கண்ணன் சாத்தனார் என்னும் புலவர் பண்டைக்காலத்தில் அறிவியல் அறிஞர்கள் இருந்தனர் என்பதை,

**"செஞ்ஞா யிற்றுச் செலவுமஞ் ஞாயிற்றுப்
பரிப்பும் பரிப்புச் சூழ்ந்தமண் டிலமும்
வளிதிரிதரு திசையும்
வறிது நிலைஇய காயமும் என்றிவை
சென்றளந் தறிந்தோர் போல என்றும்
இனைத்தென் போரும் உளரே".** (புறம்-30)

அதாவது "ஞாயிறு செல்லும் பாதையையும், அந்த ஞாயிறு தாங்கிக் கொண்டிருக்கும் கலைகளையும், அந்தச் கலைக்குள் சூழ்ந்திருக்கும் உருண்டை மண்டலங்களையும், காற்று திரியும் திசையையும்,ஒன்றுமில்லாமல் வெறிச்சோடிக் கிடக்கும் ஆகாயத்தையும் தாமே நேரில் சென்று அளந்து அறிந்தவர் போல இவைத்து என்று அளவு கூறுவாரும் உளர்" என்னும் புலவரின் கருத்தின் மூலம் அறிவியல் அறிஞர்கள் இருந்தனர் என்பது அறியமுடிகின்றது.

பண்டைய அறிஞர்கள் வானியல் துறையிலும் அறிவுமிக்கவர்களாக திகழ்ந்தனர் என்பதையும் புறநானூற்றின் வழி அறிய முடிகிறது. விண்ணில் மதி செல்லும் வழியாகிய வட்டத்தைக் குறித்தும் பாடப்பட்டுள்ளது.

"மதிசேர் நான்மீன் போல்" (புறம்-160)

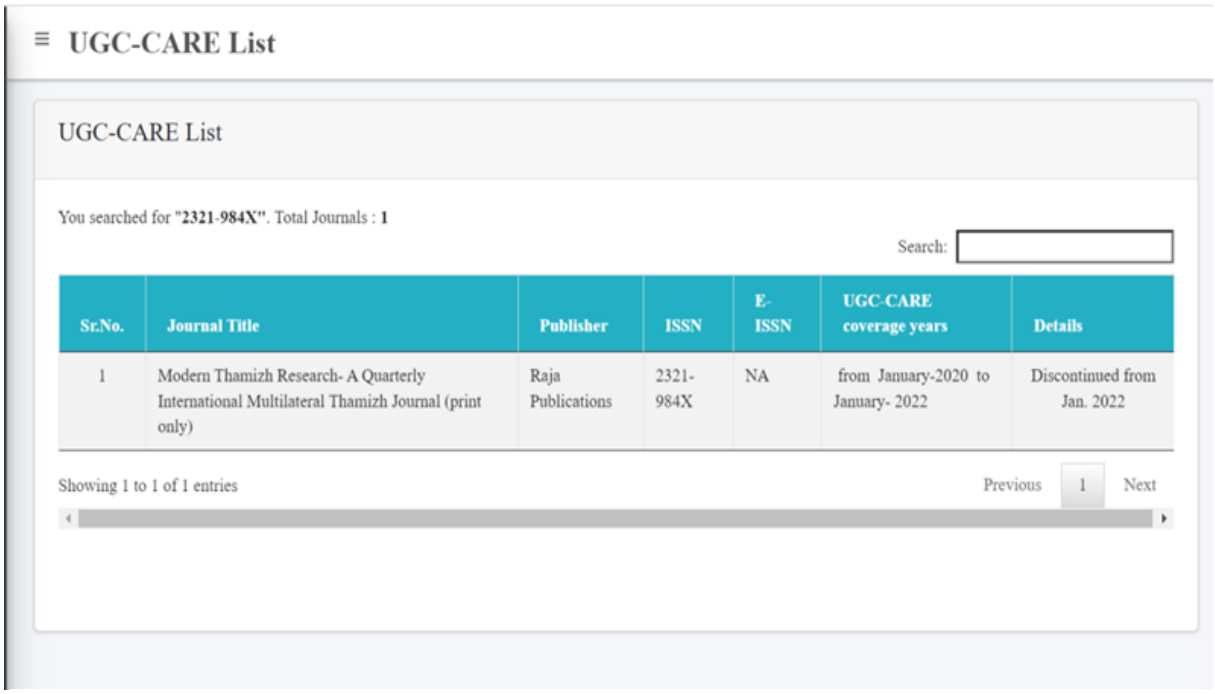
என்ற புறப்பாட்டிற்கு உரையாசிரியரின் "திங்களைச் சூழ்ந்த விண்மீன்கள் போன்ற" என்னும் உரையாலும் அறியமுடிகிறது.

கோள்கள்:

தமிழர்கள் கோள்களின் இயக்கத்தினால் நாள் இயற்கை சிறப்பாக செயல்படுகிறது என்பதை நன்கு அறிந்து வைத்திருந்தனர். இதனை புறநானூற்றில் மதுரை அளக்கர் ஞாழார் மள்ளனார்

**"வெள்ளி தென்புலத் துறைய விளைவயல்
பள்ளம் வாடிய பயனில் காலை"**

(புறநானூறு 338)



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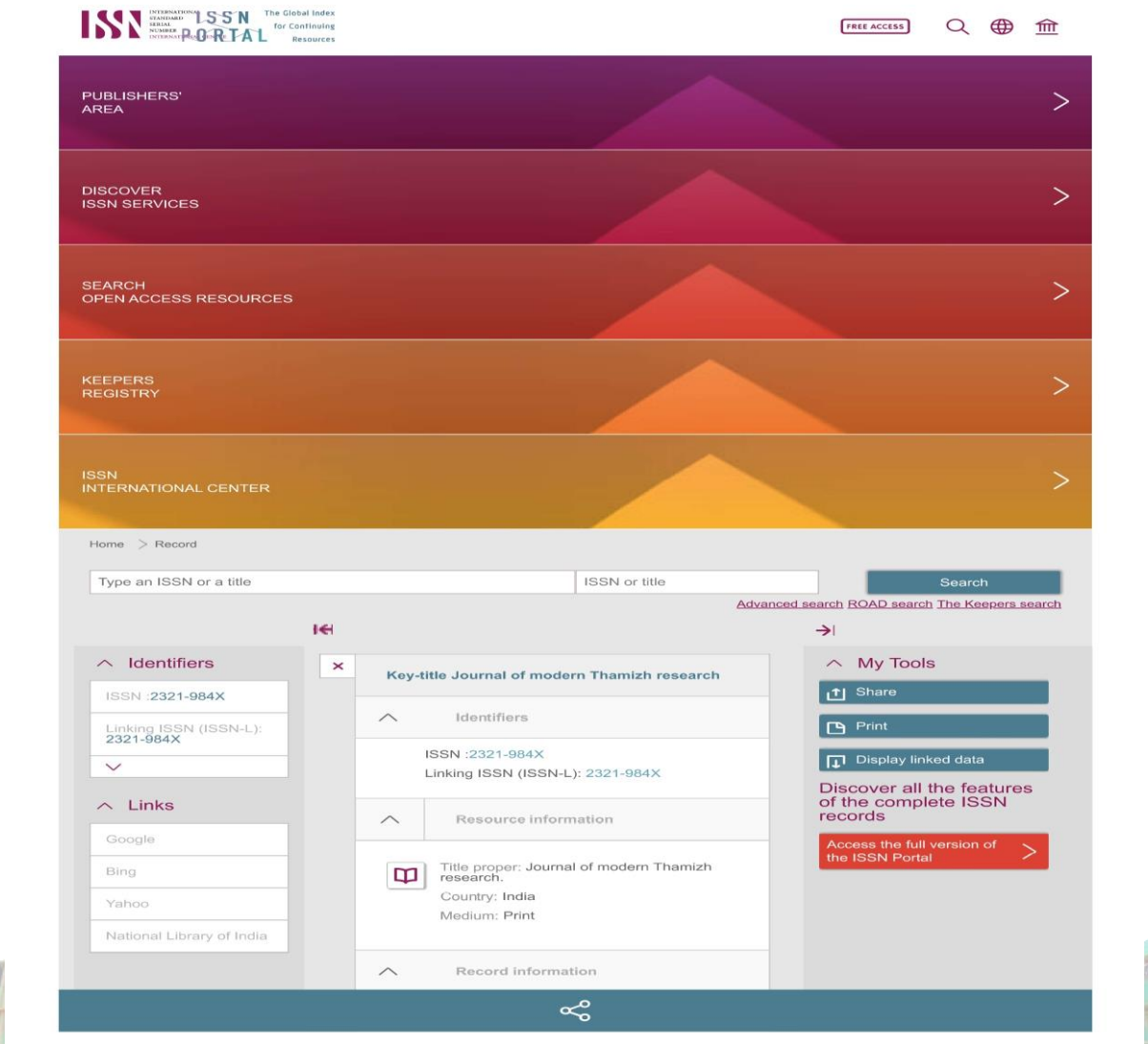


வள்ளுவம் காட்டும் வாழ்வியல் நெறி

முனைவர் அ. டெல்பின்
உதவிப் பேராசிரியர், திருச்சிலுவை கல்லூரி,
நாகர்கோவில், தமிழ்நாடு, இந்தியா.

ஆய்வுச் சுருக்கம்

வள்ளுவர் காட்டும் வாழ்வியல் நெறிகளை ஆராய்ந்து பகுத்துக் கூறுவதாகும். இக் கட்டுரையில் வள்ளுவர் கூறிய வாழ்வியல் நெறிகளாக, பொருண்மைச் சிறப்பு, வாழ்வியல் பதிவு, முதன்மைப் பயன், பன்முகப்பார்வை, தனி மனிதநிலை, மரபுகளைத் தகர்த்தல், அறநெறிப்பட்ட வாழ்க்கை, வாய்மை, மும்மை அறம், ஈதலறம், காதலறம், ஆண் – பெண் சமனியம், சிறைகாக்கும் காப்பு எவன்செய்யும் மகளிர், சமுதாயக் கொடுமைகள், பகுத்தறிவு நோக்கு, மானுடத்தின் மலர்ச்சி எனப் பல நெறிகள் பகுத்துக் கூறப்பட்டிருக்கிறது. வள்ளுவர் கூறிய வாழ்வியல் நெறிகள் தமிழ்க் குடிமகன் ஒருவனுக்கு மட்டுமன்றி, உலகில் மனிதனாகத் தோன்றிய அனைவருக்கும் உரிய வாழ்வியல் நெறிகளாக அமைந்திருப்பதே திருக்குறளின் சிறப்பாகும். அதனைக் கண்டறிந்து தொகுத்துரைப்பது இக்கட்டுரையின் நோக்கமாகும்

முன்னுரை

திருக்குறள் நீதி நூல் மட்டுமன்று அது ஒரு வாழ்வியல் நூல். இரண்டாயிரம் ஆண்டுகளுக்கு முற்பட்ட மனிதனுக்காக மட்டுமல்ல, இருபத்தோராம் நூற்றாண்டின் புதிய தலைமுறையினர்க்கும் வழிகாட்டும் புரட்சி நூல். வள்ளுவத்தின் பொருண்மை காலந்தோறும் புதிய புதிய கருத்தாக்கங்களைத் தந்து, இனம், மொழி, நாடு என்னும் எல்லைகளைக் கடந்து மனித வாழ்க்கையை வளப்படுத்துகிறது.

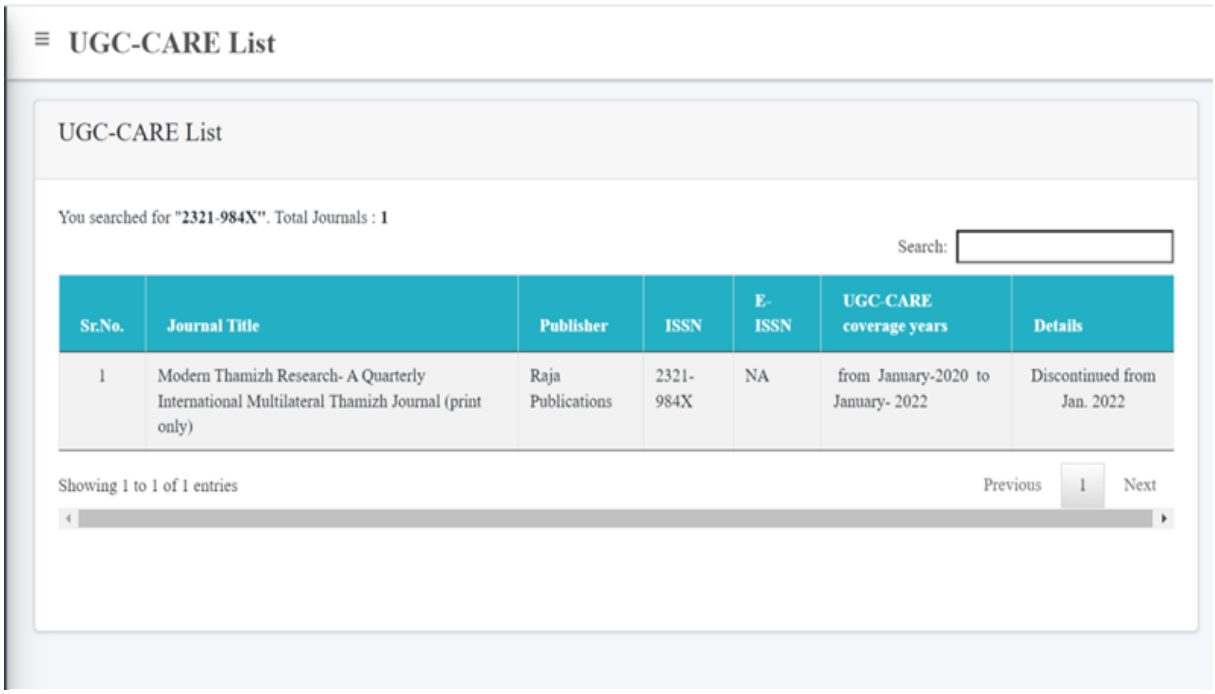
பொருண்மைச் சிறப்பு

சங்க காலத்தைத் தொடர்ந்து தமிழுக்கும், தமிழர்க்கும் கிடைத்த அரிய களஞ்சியமான வள்ளுவத்தில் உலகளாவிய சிந்தனைகளும் மனிதனை உயர்த்தும் உயரிய நோக்கும் காணப்படுகிறது. வள்ளுவம் 'தமிழனுக்குரியது' என்னும் நிலையைக் கடந்து உலகத்தவர் அனைவர்க்கும் உரியதாக உள்ளமையை உணர்ந்த பாரதி 'வள்ளுவன் தன்னை உலகினுக்கே தந்து வான்புகழ் கொண்ட தமிழ்நாடு', எனப் புகழ்ந்துரைத்தார். வள்ளுவப் பொருட் சிறப்பை அறிந்த மதுரைத் தமிழ் நாகனார் 'எல்லாப் பொருளும் இதன் பால் உள' என்று தெளிந்துரைத்துள்ளார். இவை வள்ளுவத்தின் காலமும் எல்லையும் கடந்து நுண்பொருட் சிறப்பை உணர்த்துவன.

வாழ்வியல் பதிவு

வள்ளுவம் தான் தோன்றிய காலத்தோடு நின்று விடாமல் இந்த நூற்றாண்டு மனிதனுக்கும் வாழச்சொல்லிக் கொடுக்கிறது. வாழ்க்கையைச் சொல்லிக் கொடுக்கிறது. வள்ளுவம் இலக்கியம் என்னும் நிலையில் நின்று விடாமல் மனித வாழ்வியல் கூறுகளை காட்டும் பதிவுகளாக உள்ளது. இதனை சராசரி மனிதன் அல்றாட வாழ்க்கையில் ஒழுகவேண்டிய நெறிமுறைகளில் தொகுப்பாகத் திருக்குறள் படைக்கப்பட்டுள்ளது என்னும் அறிஞர் கருத்தினால் அறியலாம். வள்ளுவத்தில் உள்ள ஒவ்வொரு குறளும் மனித வாழ்க்கையின் நெறிகளை, வழிமுறைகளைத் தருவன.

மானிடப் பண்பு இயல்புகளுக்கு ஓர் உறைவிடமாய் – வாழ்க்கை, வழி நெறிமுறைகளுக்கான வழிகாட்டியாய் அமைந்துள்ளது திருக்குறள் என்னும் முத்தமிழ் அறிஞரின் கருத்தும் வள்ளுவம் ஒரு வாழ்வியல் நூல் என்பதை உறுதிப்படுத்துகிறது.



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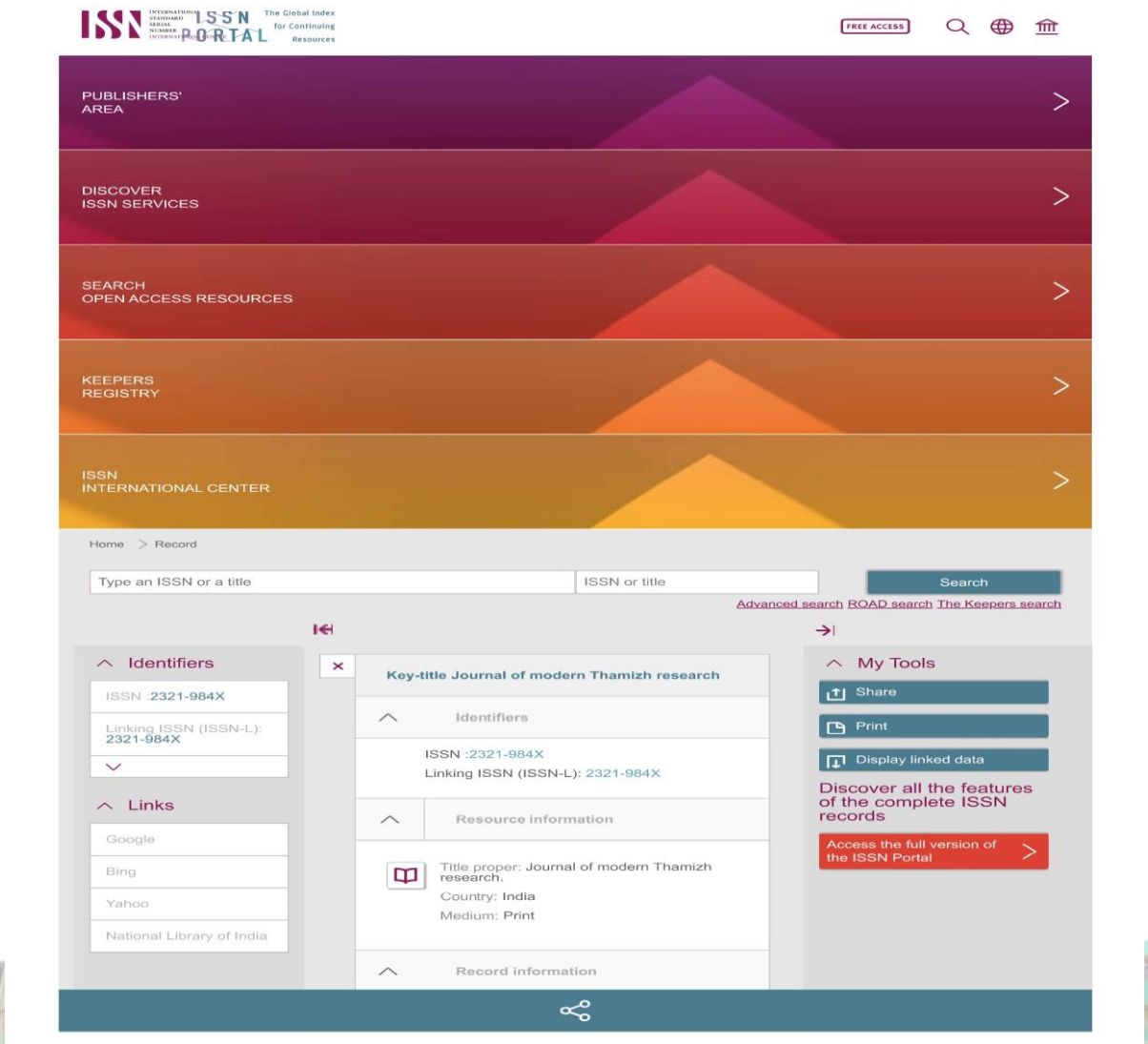


எட்டுத்தொகையில் பெண்கள் வாழ்வியல்

அ. பியூலா

முனைவர் பட்ட ஆய்வாளர், பதிவு எண் 20123011022017, தமிழ்த்துறை, அன்னை வேளாங்கண்ணி கல்லூரி, தொலையாவட்டம் 629157, கன்னியாகுமரி மாவட்டம், தமிழ்நாடு, இந்தியா

முனைவர் C. அஜிதா

இணைப்பேராசிரியர், தமிழ்த்துறை, அன்னை வேளாங்கண்ணி கல்லூரி, தொலையாவட்டம் 629157, கன்னியாகுமரி மாவட்டம், தமிழ்நாடு, இந்தியா

ஆய்வுச் சுருக்கம்:

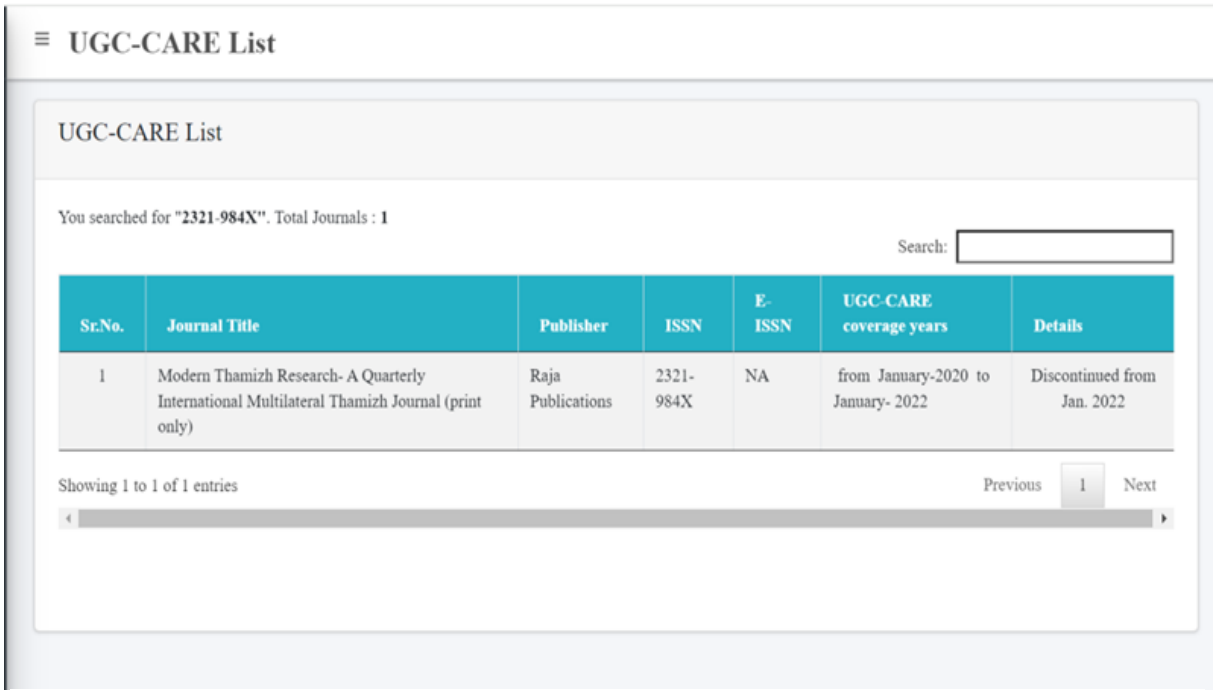
சங்க இலக்கிய மேற்கணக்கு நூல்களான ...டு, தொகை என்பவற்றுள் எட்டுத்தொகை ...ல்களில் பெண்களின் வாழ்வியல் பற்றிக் ...துவதே இக்கட்டுரையின் நோக்கம். சங்க ...லத்தை ஒரு பொற்காலம் என குறிப்பிட்டாலும் ...து பெண்களுக்கு பொற்காலமாக இருந்ததாக ...ல்லை. ஏனெனில் ஆண்களுக்கு ...க்கப்பட்ட சுதந்திரம் முழுவதும் பெண்களுக்கு ...க்கப்படவில்லை. கல்வி கற்ற பெண்பாற் ...வர்கள் இருந்தார்கள் என்பது உண்மை. ஆனால் ...ம் பெண்கள் கல்வி பெற்றிருந்தனர் எனச் ...முடியாது ஏனெனில் பெண்களுக்கென தனி ...வகுக்கப்பட்டு அதற்குள் இருக்க ...திக்கப்பட்டனர். பெண்கள் தன் கணவன் ...ால் கைம்மை நோன்பு நோற்றனர். காதல் ...ல் தலைவி தலைவனைப் பிரிந்து பசலை ...ட்கு உள்ளானாள். அவளது மேனி ...றது எனக் கூறுவதிலிருந்து தலைவனது ...தலைவியின் வாழ்வில் பெரும் மாற்றத்தை ...த்தியதை அறியலாம். திருமணமும் ...வியின் வாழ்வை மாற்றி கணவனுக்கு ...அவளை வாழ்த்தூண்டியது தான் காதல் ... கணவனுக்காக தன் பிள்ளை தனத்தை ...மனைவியாக, தாயாக, மகளாக வாழும் ...ின் வாழ்வு போற்றுதற்குரியதே.

முன்னுரை:

இலக்கியம் என்பது வெறும் உணர்வுகளின் பதிவு அல்ல வரலாறாக உருவெடுக்கக்கூடியது ஒரு இலக்கியத்தைப் படித்த மாத்திரத்திலேயே அக்கால சமுதாயத்தைப் பற்றி நாம் அறிந்து கொள்ள இயலும். எனவே தான் இலக்கியத்தை காலத்தைக் காட்டும் கண்ணாடி என்பர். எந்த கால இலக்கியங்களை நாம் எடுத்து பார்த்தாலும் பெண்களைப் பாடாத புலவர்களும் இல்லை, படைப்பாளர்களும் இல்லை, படைப்புகளும் இல்லை எனலாம். கவிதையையும் கற்பனையையும் பிரிக்க முடியாதது போல பெண்களையும் படைப்புகளையும் பிரிப்பது என்பது மிகவும் கடினம். பாராட்டுவதற்காகவோ, துணிச்சலை வெளிப்படுத்துவதற்காகவோ, வருணனைக்காகவோ ஏதோ ஒரு விதத்தில் அந்தந்த படைப்பாளர் வாழும் சமுதாய சூழ்நிலைக்கேற்ப பெண் இலக்கியங்களில் கையாளப்படுகிறாள். அதில் எட்டுத்தொகை நூல்களில் பெண்களின் வாழ்வியல் பற்றி விளக்குவதே இக்கட்டுரையின் நோக்கம்.

எட்டுத்தொகையும் பெண்களும்:

சங்ககாலம் தமிழ் இலக்கிய வரலாற்றின் பொற்காலம் ஆகும். சங்க இலக்கியங்களை பதினெண் மேற்கணக்கு நூல்கள், பதினெண் கீழ்கணக்கு நூல்கள் எனப் பிரித்தனர். அவற்றுள்



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1	Modern Thamizh Research- A Quarterly International Multilateral Thamizh Journal (print only)	Raja Publications	2321-984X	NA	from January-2020 to January- 2022	Discontinued from Jan. 2022

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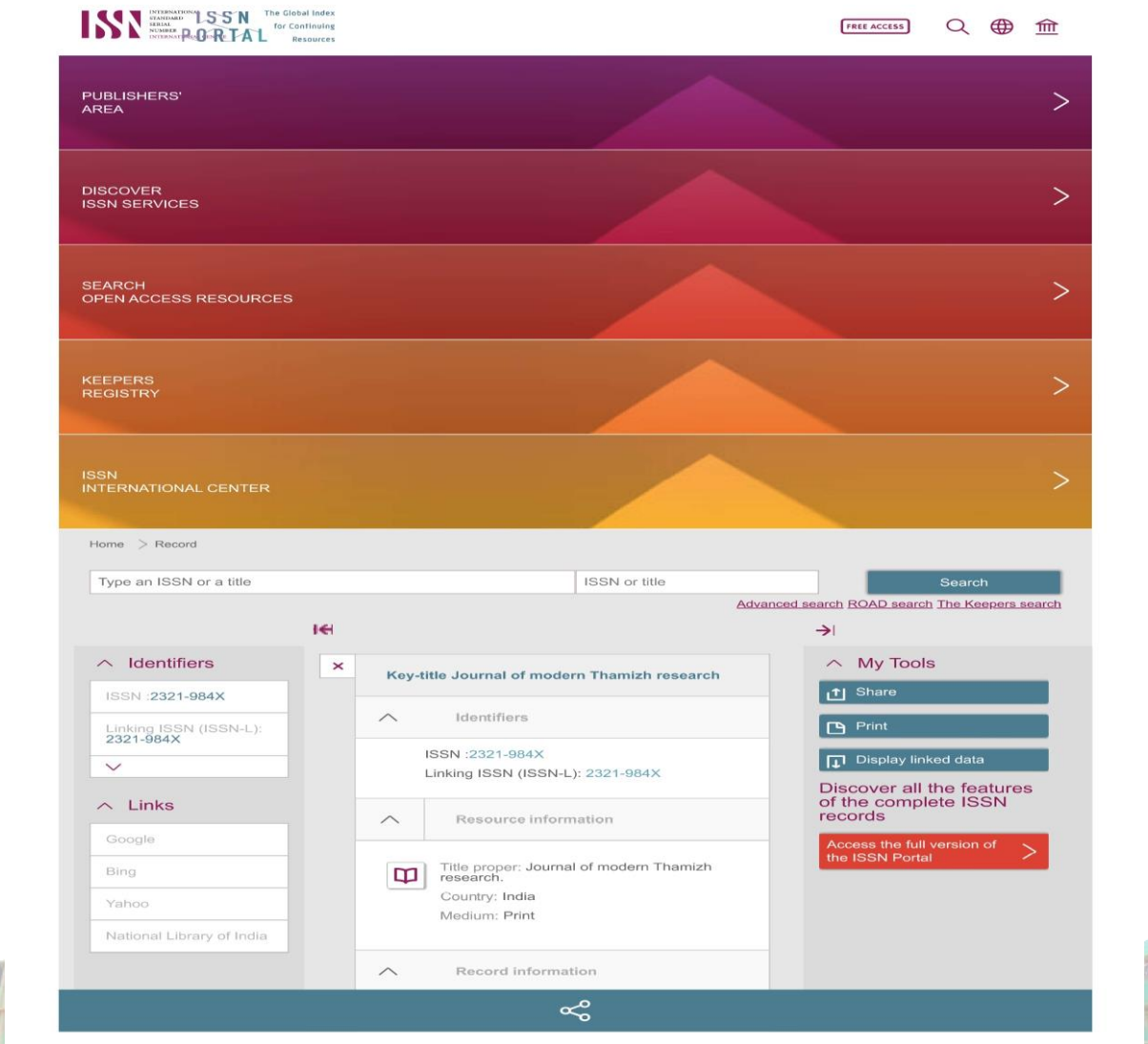

எட்டுத்தொகையில் பெண்களின் உளவியல்

அ. பியூலா
பகுதிநேர முனைவர் ப[illegible] ஆய்வாளர், பதிவு எண்: 20123014022017
தமிழ்த்துறை, அல்லமா வேளாங்கண்ணி கல்லூரி தொலையாவட்டம்,
கலியிக்காவிளை மாவட்டம், தமிழ்நாடு
மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம், அபிஷேகப்பட்டி,திருநெல்வேலி – 627012,தமிழ்நாடு,

ஆய்வு நெறியாளர்,
முனைவர் C. அஜிதா
தலைப்பேராசிரியர், தமிழ்த்துறை, அல்லமா வேளாங்கண்ணி கல்லூரி தொலையாவட்டம்,
மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம், அபிஷேகப்பட்டி,திருநெல்வேலி – 627012,தமிழ்நாடு

ருக்கம்:

சங்க இலக்கியங்களை பதினெண்
க்கு நூல்கள், பதினெண் கீழ்கணக்கு
எனப் பிரித்தனர். அவற்றுள் பதினெண்
னக்கு நூல்களில் அடங்குவன
ட்டும் எட்டுத்தொகையும் ஆகும். அதில்
கை நூல்களில் பெண்களின் உளவியல்
த்துரைப்பதே இக்கட்டுரையின் நோக்கம்.
ன் மனதினை மையமாகக் கொண்டு
நடத்தைகளை அறிவிப்பது பெண்ணிய
எனப்படும். பெண்களின் மனது சுய
னம் கொண்டது அல்ல. எப்போதும்
ர்ந்திருப்பவர்களைப் பற்றி மட்டுமே
ூறியது. தனக்கு பிடித்தவர்களுக்காக
ரையே விடக் கூடிய அளவில் பிறரை
க நேசிப்பவர்கள் பெண்கள். தான்
தவர் தன்னை புறக்கணித்தாலும்
ய வண்ணி தன் வாழ்க்கையை
ன உறுதி படைத்தவர்கள் பெண்கள்.
பெண்கள் உடலாலும் உளத்தாலும்
எட்டுத்தொகைக் காலத்திலிருந்து
ருப்பதை நாம் மறுப்பதற்கில்லை.

ியல் என்பது ஒரு மனிதனின்
யமாகக் கொண்டு அவர்களது
ஆராய்வது ஆகும். பெண்ணின்
யமாகக் கொண்டு அவளின்
நடத்தைகளை அறிவிப்பது பெண்ணிய உளவியல்
எனப்படும். ஆண்களின் சிந்தனையிலிருந்து
முற்றிலும் வேறுபட்டதாக பெண்ணிய உளவியல்
உள்ளது. அச்சம், நாணம், மடம், பயிற்பு ஆகிய
பண்புகளை பெண்கள் கட்டாயம் பெற்றிருக்க
வேண்டும் எனக் கூறிய சமூகம் பெண்களின்
மனநிலையைப் பற்றி சிந்திக்கவில்லை. சமூகத்தால்
சிந்திக்கப்படாமல் இருக்கும் பெண்ணின் மனநிலை
எட்டுத்தொகை எப்படி குறிப்பிடுகிறது என்பதை
எட்டுத்தொகையில் பெண்களின் உளவியல் என்ற
இக்கட்டுரை விவரிக்கிறது.

எட்டுத்தொகையில் பெண்களின் உளவியல்:

பெண்களின் மனது பெரும்பாலும் தன்னைப்பற்றி சிந்திப்பது இல்லை. தன்னை சார்ந்திருப்பவர்களைப் பற்றியும் தான் சார்ந்திருப்பவர்களையும் பற்றி மட்டுமே சிந்திக்கும். இதைப் பற்றி மிக அழகாகக் குறிப்பிடுகிறது ஒரு எட்டுத்தொகைப் பாடல். ஆடவர்களுக்கு தாவ் மேற்கொள்ளும் கடமையே உயிர். ஆனால் பெண்களுக்குத் தம் தம் கணவனே உயிராக விளங்கினர் என்பதை,

"வினையே ஆடவர்க் குயிரே வாணுதல்
மனையுறை மகளிர்க்கு ஆடவர் உயிர்"[1]

என்கிறது குறுந்தொகைப் பாடல். ஆணுக்கு வெளி இடம் செல்ல வேண்டியதற்கான சூழல் பல்வேறு காரணங்களுக்காக ஏற்படும் தூது, பொருள்வேண்டி, பரத்தையர் நாடி எனப் பல காரணங்களுக்காக

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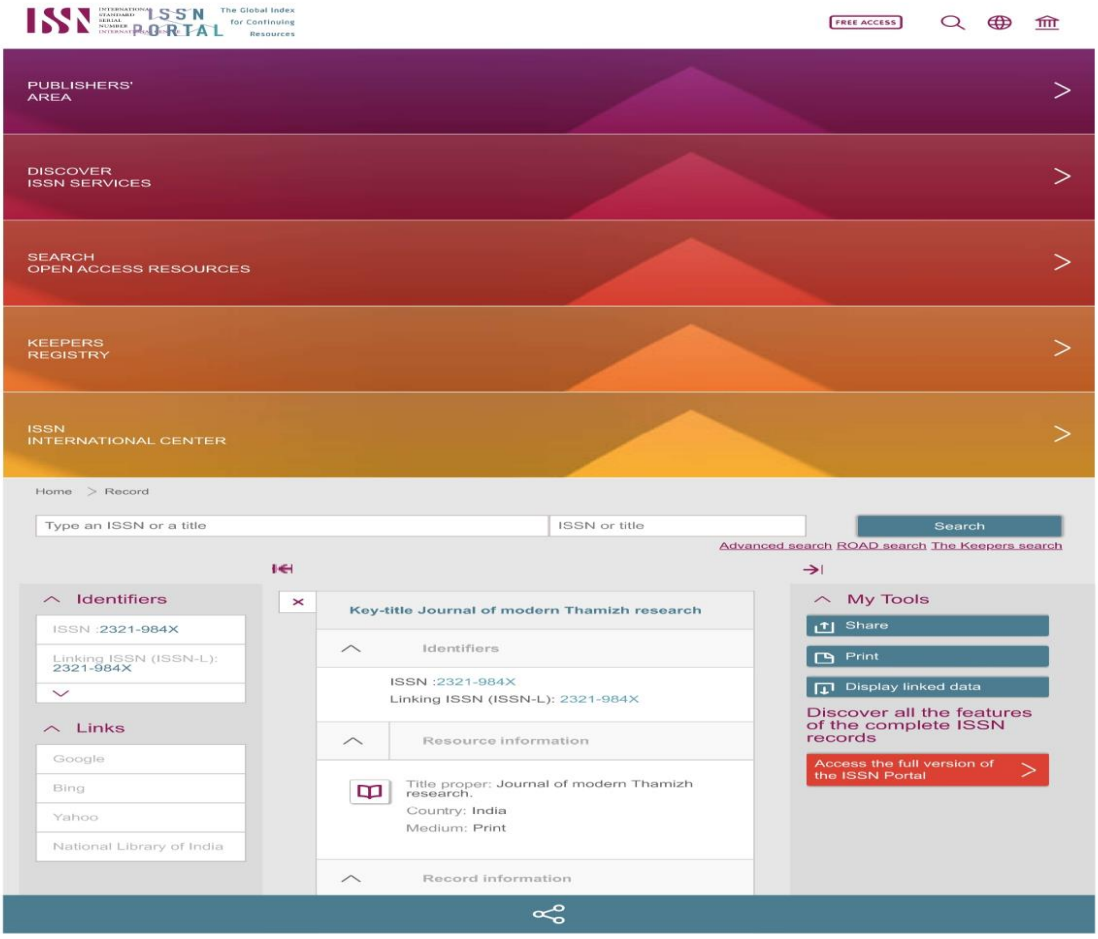

SOCIAL LEGISLATION OF GOWRI LAKSHMI BAI

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Abstract

The erstwhile princely state of Travancore commanded a predominant position in the evolution of the legislative institutions by its strategic and ecological factors. The rulers of Travancore remained the source of all authority, judicial, administrative and legislative. The government of the country was conducted in the name and under the control of the rulers. Dewan appointed by the Rulers remained the principal minister. The Dewan was assisted by a government secretariat. The administration was further carried out by the Departments. After the death of Bala Rama Varma on 16th November 1810, Queen Gowri Lakshmi Bai ascended the throne. Queen Gowri Lakshmi Bai started losing her health after giving birth to Uthram Thirunal and died in 1815. From time to time new rules and regulations were promulgated by the rulers for the administration of justice. One of the earliest acts of Regent Gowri Lakshmi Bai was to dismiss the existing Dewan or Prime Minister, Ummini Thampi. Ummini Thampi was accused of squandering money and acquiring all the property of the vanquished rebel freedom fighter Velu Thampi Dalawa and others. He was dismissed and when he tried to cause further trouble, he was imprisoned and punished after being found guilty of conspiracy against the Regent Queen Gowri Lakshmi Bai. Taxes on festivals, taxes on the inheritance of property were abolished. Travancore contained a large number of Devaswams or Temple administrative departments that held vast areas of land and controlled most of the important and wealthy temples in the country. More than three hundred of the biggest temples of Travancore were appropriated by the Government under a Devaswam Board and cleared of corruption and mismanagement. By a Royal Proclamation on 5th December, 1812, Gowri Lakshmi Bai abolished the purchase and sale of all slaves and granted them independence excepting those attached to the soil for agricultural purposes.

Key words: Princely state – Travancore – Evolution – Legislative – Government – Dewan – Administration - Gowri Lakshmi Bai - Prime Minister – Regent - Devaswams - Departments - Royal Proclamation – Mismanagement.

Introduction:

Travancore, a premier princely state of Kerala situated at the southernmost part of the Indian -

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Journal Details

Journal Title (in English Language)	The Journal of Oriental Research Madras (print only) | (Current Table of Content)
Publication Language	English
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E-ISSN	NA
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Subject	Arts and Humanities (all)
Focus Subject	Language and Linguistics , History
UGC-CARE coverage years	from June-2019 to Present

AUTHOR INDEX

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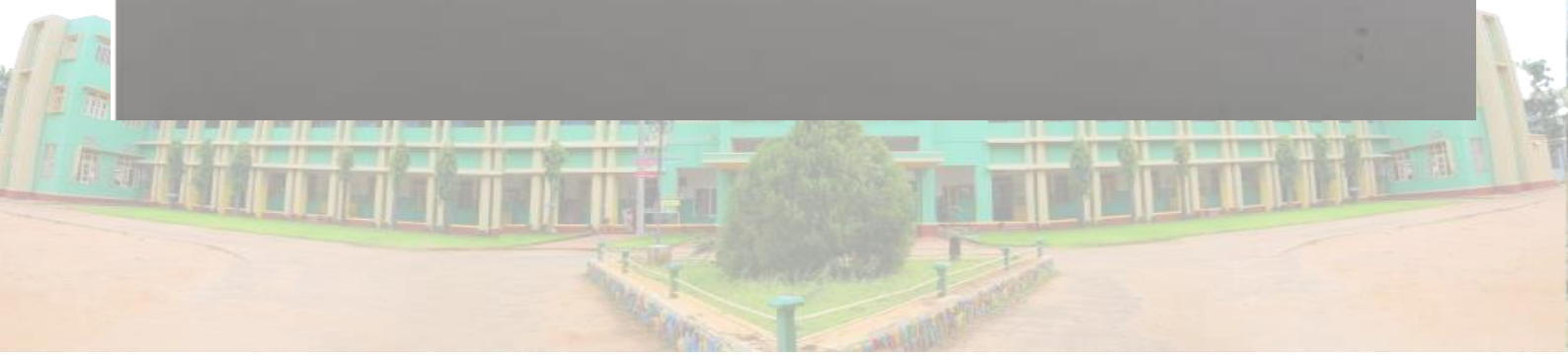

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Original Sutra Author	N/A

Jijnasa : A Journal of the History of Ideas and Culture
ISSN : 0337-743X

DIGITAL BANKING MISSION: EVOLUTION OF PAYMENT BANKS IN INDIA

V. Francis Xavier Research Scholar (Reg.No:19233041271005) Department of Commerce, Holy Cross College (Autonomous) Nagercoil.(Affiliated to Manonmaniam Sundaranar University Tirunelveli, Tamilnadu)

Dr. S. Sahaya Selvi Research Supervisor & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous) Nagercoil. (Affiliated to Manonmaniam Sundaranar University Tirunelveli, Tamilnadu, India)

Abstract

Digital India is an initiative taken by Government of India for its citizens to avail government services digitally and electronically. As a part of digital India initiative, Indian Government has taken many steps to change the economy as cashless economy and make it as a digital paperless economy over a period of time. Due to this, banking and financial services are also undergoing massive transformation in digitization and digital payments. Recent development in Banking Financial Services and Insurance industry are Payment banks, which has become the most popular medium for digital transactions. The objective of this research paper is to study the role of various payment banks in India towards building digital banking mission. It focusses more on evolution of how payment banks develop digital payment eco-system by offering various product suite to the target customers across the country and leverage sustainable growth in digital economy.

Keywords: Digital Banking, RBI, Payment Banks, Cashless Digital Payments, Rural development,

I. Introduction:

Digital banking is a buzzword in India today to create a cashless future. Post successful acceptance of demonetization, Indian Government is predominantly pushing digital transactions. There are various types of banks in the Industry which offers services to the customer segments based on their nature of entity, size of business, target customers, product line and technology. Digital Banking is an emerging paradigm which offers various benefits to banks also in terms of productivity and profitability. Banks in India are more focused in transforming from a traditional banking to a convenient banking using advanced technologies. The accelerating rate of technological change, combined with shifting customer preferences and an evolving regulatory landscape, have dramatic implications for the ways in which financial services are designed, delivered and disbursed. Today the new arena of banking is Payment banks conceptualized by Reserve bank of India which are becoming the most popular medium for digital transactions. The system has been structured in such way with the current artificial intelligence and machine learning platform. Payment banks offer unique products and services from other commercial banks and the key focus is to capitalize the rural under banked and unbanked market where other banks were not able to penetrate more into it. Aadhaar has been made as a key trump to these payment banks, as Government of India has ensured every citizen gets an aadhaar number. Introducing unique e-kyc based paperless banking and QR based digital transactions, payment banks serves as a key for change towards digital economy.

2.Objective of the Study:

1.To know about the origination of payment banks in India.
2.To explore the unique features of payment banks.
3.To know how payment banks develop digital payment eco-system by offering various product suite to the target customers across the country.
4.To study the role of payment banks in India towards building digital banking mission.

3. Research Methodology:

This research article is based on exploratory research. Secondary sources of data collection have been adopted for the study. The relevant and required data are collected from the existing national and international journal articles published, RBI guidelines and amendments through RBI website,

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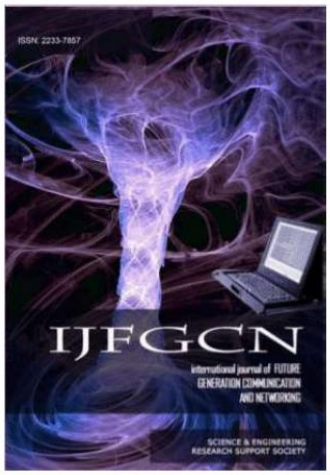

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Indian Banking: Digital Transformation Of Automated Teller Machine Channel Over A Decade

***Mr. Francis Xavier V & **Dr. S. Sahaya Selvi**

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***Research Supervisor, Assistant Professor-Department of Commerce Holy Cross College (Autonomous) Nagercoil*
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Abstract:

Banking and financial services have undergone massive transformation in digitization and digital payments over a decade. Indian banking is transforming from traditional banking to digital over the last ten years and this vital change makes the overall banking industry to get elevated to the next level in the global economy. The objective of this research paper is to study how digitization evolved in ATM cards and ATM Machines of Indian banking over a period of time. This study is based on secondary data which are mainly extracted from various data sources like research papers, articles published by corporates and Government of India, authentic websites of RBI, NPCI and bulletins published by them. From this research paper, knowledge gained about how digitization emerged in banks by introducing ATM cards and machines, transformation of technology into this platform over a decade. Scope for customer acquisition & accessibility through digitization, future milestone & trend to be set in this channel based on advancement in technology.

Keywords: ATM Cards, ATM Machines, Digitization, Transformation, Technology innovation.

Introduction:

Present banking demand and choice are for robust highly secured technology anywhere and anywhere, which meet the needs of tech-savvy customers. By knowing the habits, the customer's banks' tastes, requirements and aspirations have changed from product-centric to customer-centric. Digital transactions seem to be the new generation customer's most favoured option and Indian banks' ambition to introduce a world-class e-banking outreach is strong. Indian banking has undergone numerous innovations, and the way customers communicate with banks is most affected by technology among those innovations.

In addition to conventional branch networks, they provide electronic banking platforms and products such as ATMs, wallets, online banking and mobile banking. Evidences indicate a change from the conventional system to the online networks. This also offers a platform for digital innovation to leverage on a broad unbanked region, and ensures financial inclusion. Banks in India have begun competing with each other by upgrading their products digitally creative and user friendly by exploiting cost-effectively the use of the new technology. Banks have taken numerous measures over a decade to develop technology in this sense.

Objective of the Study:

The primary objective of the study is to find out how banks have introduced alternate banking channels that replaces physical human intervention like ATM cards, ATM machines, their development through digital innovation and transformation over a decade, various level of milestones achieved by banks in India to facilitate user friendly ATM access and enhanced future development in this segment.

Research Methodology

This research paper is framed primarily based on exploratory method. Secondary data collection from various sources have been adopted for the study. Data have been mainly extracted from various data

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INDIAN BANKING: DIGITAL TRANSFORMATION IN RETAIL BANKING OPERATIONS OVER A DECADE

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Dr. S. Sahaya Selvi Research Supervisor &Assistant Professor Department of Commerce, Holy Cross College (Autonomous) Nagercoil Affiliated to Manonmaniam Sundaranar University Tirunelveli, Tamilnadu, India.

Abstract:
Banking Industry in India is attaining to be transformed digitally and getting upgraded more on technology driven over the last decade. Banking traditions have been undergoing a nominal change based on the current human intelligence and resources available. India as a country promotesdigitization than traditional approaches as we are very strong in IT infrastructure and human resource than other countries. Based on the current technology intelligence banking operations have also undergone a massive transformation. The objective of this research paper is to study how digitization in retail banking operations of Indian banking transformed and developed an ease of banking operations over a period of time. This research is done based on secondary data which are mainly extracted from various data sources like various relevant research papers, blogs, various articles written by corporates and Government of India, authentic websites of RBI, NPCI and bulletins published by them. From this research paper the knowledge gained is about how digitization impacted and developed the retail banking operations, various steps of digital and technology transformation evolved in retail banking operations in the last ten years. Scope for banks to further develop user friendly operating system and innovative banking ideas to enrich customer acquisition, service quality and to set a new benchmark in the Industry.

Introduction:
Banking operations in India has undergone a dynamic change over a decade. Banking operations has a broad classification of Retail and Wholesale Banking. Retail banking refers to the banking operations dealt with individual customers and wholesale banking refers to the dealing with corporate customers. Liability and Asset products plays a vital role in banking operations predominantly. Banking in today's competitive scenario concentrates more on 3 vital parameters they are multiple products, multiple customers and multiple channel for sales and distribution. Retail banking primarily focuses on developing product features and benefits offered to individual customers through a series of innovative products, services, technology and various marketing methods. Keeping the pace of changing competitive environment, optimum utilization of technology, expanding the base of customers by targeting rural India towards inclusive banking or financial inclusion, improving customer service standards and strategically designing products and service innovatively. Mainly retail banking focusses on developing various strategies to establish wide market share in customer base using latest technology and transforming to digital banking platform overcoming the traditional banking processes based on customer expectation and speed of execution.

Objective of the study:
The primary objective of the study is to find out how banks have introduced and adapted to innovative technology that replaces physical human intervention like traditional banking system and optimal utilization of technology to get the banking operations done at an ease. Through digital transformation over a decade banking operations have reached various level of heights in banking operations and achieved various milestones of banking operations in India to facilitate banking at an ease to customers as well as the bank.

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AWARENESS AND PERCEPTION TOWARDS DIGITAL PAYMENTS

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ABSTRACT

Payment industry has undergone significant changes from barter system to digital payments system. Due to Innovation the digital payment methods has developed gradually from banking cards to micro ATM. Awareness about different methods of digital payments will motivate the people to make use of it and its positive perception will lead to continuous use of digital payments. Earlier research studies have analysed only a few methods of digital payments thereby ignoring several methods of digital payments. Hence this paper analyses the awareness and perception of different methods of digital payments that are sited in the website of http://cashlessindia.gov.in. This site gives a broader outlook on the nine methods of digital payments. The study is based on both primary and secondary data. The primary data is collected with the help of questionnaire. Since the population is infinite, the researcher has adopted Cochran's formula to define the sample size as 507. The result indicates that respondents have moderate knowledge and perception about all the nine methods of digital payments in the study area. This study also concludes that for the success of digital India, every citizens of the country must undergo awareness campaign and known about all the methods of digital payments. Hence the respondents state that digital payment could be simpler and user friendly and cash payment should be refused by all the vendors of the shop so as to make our country a faceless, paperless and cashless nation. The success of this project can be achieved only when the vendors and customers join hands with each other.

Keywords: Innovative Methods of Digital Payments, Cashless nation, Awareness, and Perception.

INTRODUCTION

Innovation plays a pivotal role in all walks of life. There is a paradigm shift in the banking sector as well as on the methods of digital payments. With recent advances in Smart phones, and other forms of technologies, digital payments were gradually enhanced from debit/credit card to internet banking in 1998, followed by e-wallet in 2004, mobile banking in 2008, Aadhar Enabled Payment System in 2010, prepaid card in 2011, Unstructured Supplementary Service Data in 2014, Unified Payment Interface in 2016 and also Micro ATM in 2016. Hence digital payments can be done through different ways. At this juncture awareness about different methods of digital payments is of absolute necessity to make the customer to transact with it. Apart from awareness about digital payments, positive perception towards digital payments will generate word-of-mouth promotion, which in turn will enhance the use of digital payments.

Smart phone users have increased tremendously, which is a good sign for cashless society, but still the people hesitate to use smart phone for online payment due to its security features. Awareness and perception about digital payments will create secured feeling towards online payment. Increase in research and surveys about digital payments will bring out a positive outcome on digital payment. Thus the researcher makes an attempt to study the awareness and perception about digital payments.

STATEMENT OF THE PROBLEM

The Committee on digital payments was constituted by the Ministry of Finance, Department of Economic Affairs under the chairmanship of Shri Ratan P .Watal former Finance Secretary, Government of India. The committee recommended for the medium term strategy for accelerating growth of digital payments and to include financially and socially excluded groups of emerging technologies with security in digital transactions. The emerging technologies in digital payment are

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TRANSFORMATION OF DIGITIZATION AND INNOVATION IN ELECTRONIC BANKING CHANNEL OVER A DECADE IN INDIA

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Dr. S. Sahaya Selvi Research Supervisor & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous) Nagercoil. *(Affiliated to Manonmaniam Sundaranar University Tirunelveli, Tamilnadu, India)*

Abstract

Information Technology in India was a turnaround in late 1990s and mainly IT Industry played a vital role in building an electronic banking ecosystem since 1990s. In late 90s banks in India placed a foot step in electronic banking channel and introduced internet banking or online banking mode of transaction which sustained a competitive advantage, scope, new scale and service delivery. It has undergone a massive transformation through digital advancements over a decade in Indian banking. From this research paper, knowledge gained about how digitization emerged innovatively and transformed in banks by electronic and online banking system, transformation of technology into this platform over a decade. Scope for technology rebuilding based on current trend, customer expectation, enhanced customer acquisition, ease on banking accessibility through digitization, digital payments and transactions, latest innovative development, future milestone & trend in Indian banking digital ecosystem to be set in this channel. This study is predominantly based on secondary data which are mainly referred and extracted from various data sources like research papers, articles published by corporates and Government of India, authentic websites of RBI, NPCI and bulletins published by them. The findings of the study indicate that electronic banking channel is a much needed platform in Indian banking system and the same has to be penetrated and implemented more into rural territories of the country.

Key Words- Electronic banking, Digitization, Transformation, Rural Banking, Financial inclusion and Innovative technology.

Introduction

Banking in India has transformed from a method of traditional banking to digital over the last ten years. Through the established Online banking system, banks have reached a milestone steadily in India, reduced costs, speed of execution, improved service delivery and enhanced customer satisfaction. Technology has a major influence on how customer interacts and what a customer expects from bank. There is major difference in electronic banking utility among developed countries and developing countries. Developed countries have established an eco-system of giving a fully structured electronic banking system whereas 90% of the customers transact through this platform but developing countries are ranging between 11% to 25% only. India is one among the developing country which would want to build a cashless eco-system and build a digital economy. In early 90s banks started adopting to the technology and gradually there was a change in the way transactions were made in banks. Introduction of internet was one of the major advantages for banks to establish a platform to transact digitally. Internet in India has undergone various stages of development and reached a level where a common man can access the facility at a lesser cost. Taking the advantage of internet banks in India has made a huge investment in it. A move on this eco-system has reached various levels with the support of government. The efficiency of a banks in India started getting determined only based on the technology they adopt, best electronic banking system, how competitive the bank offers electronic banking facility to the customers, control mechanism, cyber security system established, data mining and data warehousing techniques, how efficient a bank manages the online portfolio without compromising the cyber threats etc.

Objective of the study

The objective of this research paper is to understand how digitization evolved in Indian banking system through Online banking. How electronic banking channel transformed right from the period of introducing internet banking, mobile banking, tele banking and process involved in it. It also

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A STUDY ON DIFFICULTIES FACED BY YOUNG USERS OF SOCIAL MEDIA ADVERTISEMENTS

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Abstract

Over the past few years, social media have become the popular digital platform for the users and advertisers of product and services. The marketers are targeting young users of social media to advertise their products and services. Because, youngsters are blindly believed the promises of advertisers and purchase the products or services without analysing the defect. The aim of advertising is to influence the consumers and create a positive impression on the products and services and impulse them to buy. But the fact is not like that, the result is dissatisfaction of users. The data were collected with the help of a questionnaire and proportionate random sampling technique was used to represent 388 respondents from 28 arts and science colleges in Kanyakumari district. The result of the study indicates that the respondents spend 1-2 hours in a day to access social media and they have privacy issues (3.652 mean score), Exaggeration (3.649 mean score).It is cleared that youngsters are facing some problems such as lack of privacy, Exaggeration, fails to promote ethical behaviour in advertisements and so on. This paper also suggests that the youngsters could conscious on every click and interaction with an advertisements or products page on social media sites.

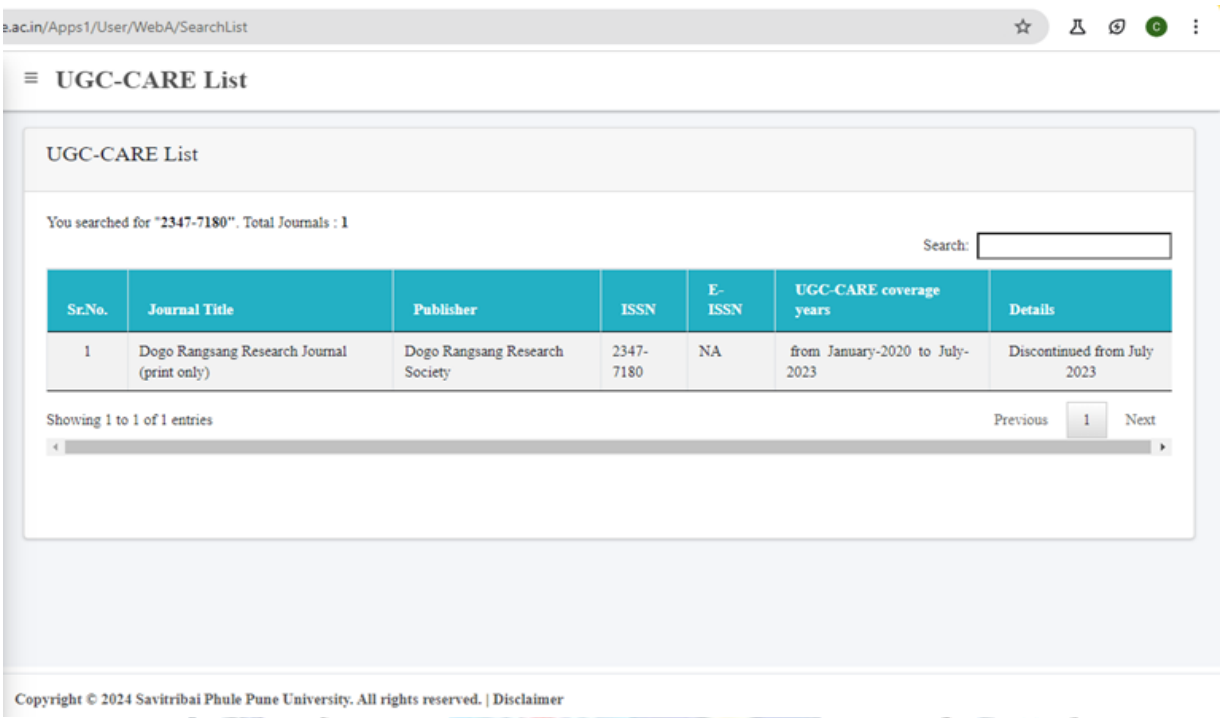
Keywords: Social Media, Youngsters, Smartphone, Digital Platform & Marketers.

INTRODUCTION

In the wake of rising competition in the world of business, most of the companies have embarked on advertisement campaigns aimed at attracting consumers to their products and services. Social media is one of an indispensable element in everyone's life. Social networking sites such as Facebook, Instagram, Twitter and so on are extensively used by all, specifically the youngsters. The marketers are make use this as a chance to advertise their products and services among social media users. The aim of advertising is to influence the consumers and create positive impression on the products and services and impulse them to buy. While advertising the manufacturers has to take more effort to make their product appealing in the eyes of the target audience, so they do their advertisements expensive. But the fact is not like that, the result is disappointment of users. This form of advertising uses deceptive ways to convince users to buy products and services. The advertisements also have some imperfections in it such as Misrepresentation, exaggeration, misleading and so on.

REVIEW OF LITERATURE

Bindia Daroch(2017) analysed the view on social media advertising and indicates that due to risk of getting the virus by clicking advertising link consumers avoid advertisements on social media.Fitore Jashari and Visar Rrustemi(2017) states that 37.4 per cent respondents discuss their dissatisfaction with their friends and fellows and they won't make any complaint where they decided to avoid purchasing in these sites. Supriya Verma(2016) analysed that 64 per cent of respondents were accessed YouTube from their smartphones. Le Wang et.al.(2014) observed that pop up advertisements appeared when the pages are open, these advertisements are irritating and distracting the webpage users. Their results stated that social media users ignored these type of advertisements and they didn't give any importance to those advertisements. Kohnika Gope(2014) found the impact of social networking sites advertisements among the users in Bangladesh. She found that the



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IMPACT OF EMOTIONAL INTELLIGENCE IN PROMOTING JOB PERFORMANCE OF TEACHERS WORKING IN ARTS AND SCIENCE COLLEGES, NAGERCOIL

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Dr. M. Mary Helen Stella, Head and Associate Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil, (Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

Abstract

Performance is an indicator which is used to measure the result of an individual. The organisation whether it is service oriented or profit oriented give importance to achieve the goal. Emotional intelligence enhances the performance of the teachers to get personal and professional success. This study is conducted to identify the impact of emotional intelligence in promoting job performance of the teachers working in arts and science colleges, Nagercoil.75 sample respondents were selected by simple random sampling technique. Both primary and secondary data were used. Collected data were analysed with the help of statistical tools and suggestions are given based on the findings.

Key words: Emotional Intelligence, Job Performance and Teachers.

Introduction

The future of India is now being shaped in the classrooms. It emphasized that, to make any process of education a success, the quality, competence and character of the teachers are the most important aspects. A teacher has a key role to play in communicating knowledge in specific subjects and help students grow to their fullest stature, develop suitable attitudes and unfold their personality. A teacher has to generate that energy in oneself and handle it in one's work of educating the boys and girls that resort to him/her. A teacher has to not only instruct but also inspire the students. Teachers are leaders for their students, who are able to establish mutual trust, respect and certain warmth and rapport with members of their groups will be more effective. The teachers who have high emotional intelligence communicates with constructive goal in mind and controls his or her emotions carefully more than reacting to situation on the basis of impulse generated by emotion generated event.

Statement of the Problem

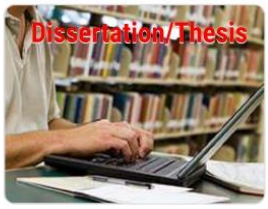
Emotional intelligence is more important than IQ in any job and it is closely associated with self-confidence and it is essential for outstanding job performance. Emotional intelligence exerts a more powerful influence in job control and ensures happy and commitment to the profession. . Teaching is the noblest of all professions and the teachers are revered from time immemorial. He is accountable to the society. The students learn by observing the life style of the teachers. Thus the teachers have to concentrate on their emotional disposition, feelings, thoughts, relationship management, interpersonal and intrapersonal relationship and problem solving ability and so on. This study helps to find out the Impact of Emotional Intelligence in promoting job performance of teachers working in Arts and Science colleges, Nagercoil.

Objectives

- To identify the impact of emotional intelligence in promoting job performance of the respondents.
- To identify the behavioural pattern of the respondents on emotional intelligence.

Methodology of the Study

The present study is empirical in nature. The geographical area of Nagercoil was chosen as the universe. Simple random sampling technique has been adopted by the researcher to select the sample respondents. Primary data were collected from 75 sample respondents with the help of



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Challenges Faced By Small Scale Entrepreneurs in Kanyakumari District

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ABSTRACT

Entrepreneurs is a key element of growth and development prospects for all countries. A nation how so ever rich in material resources, cannot prosper if its resources are not put to productive use. For this purpose, energetic entrepreneurs are needed who can contribute effectively for national prosperity. The only solution is promotion and development of entrepreneurship, as it aims at making an individual a job provider and not a job seeker. This paper examines the main challenges faced by the entrepreneurs are financial problems, production problems, labour and government related problems and how to overcome the barriers while starting their enterprise. This study was descriptive in nature and it includes surveys, facts and findings. Data was collected using a developed and validated questionnaire. The study chooses entrepreneurs in Kanyakumari district and the respondents were selected randomly. The collected data was analysed using Likert's Five point scale Technique.

Keywords: financial problems, production problems, labour problems and marketing challenges.

INTRODUCTION

Entrepreneurship is the process by which individuals or group of individuals utilise the commercial opportunity. This process is organized through a startup company or by an established business. The business is formed by the individuals or group of individuals, who are known as entrepreneurs. They co-ordinate the process of entrepreneurship under common ownership structure. The energetic entrepreneurs can act as job provider and job seeker and thus contributing to the prosperity of a nation.

Entrepreneurs: Entrepreneur is an English derivation of the French word 'entroprendre' meaning 'to undertake'. Entrepreneur is the one who undertakes risk and starts something new. He is an initiator, a challenger, a driver who possesses a certain creativity level that allows himself to be competitive in the process of entrepreneurship.

Small scale entrepreneurs run small enterprises with an investment that does not exceed Rs.1 crore. Such enterprises are generally privately owned and operate as sole proprietors, corporates and partners. Small scale business employ smaller teams of employees, depending on the business type.

Though small scale industries in India have made significant contribution to its economic development, they have not yet realized their full potential. They face many problems in their functioning and many of them are sick. The main challenges ahead of them are related to finance, production, government policies labourand market. This study highlights the challenges faced by the small scale entrepreneurs in kanyakumari district.

REVIEW OF LITERATURE

Mambula, C. (2002) analysed major constrains faced by entrepreneurs. This study revealed that majority of entrepreneurs face the problem of finance and infrastructure while managing their businesses. The author recommended that small business entrepreneurs should collaborate with each other to sort out the various problems faced by them. There is a need to form alliance of Government, Research Institutions and Financial Institutions to create appropriate training for prospective small business. All these measures will go a long way to strengthen the growth of small scale sector.

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A STUDY ON DIFFICULTIES FACED BY YOUNG USERS OF SOCIAL MEDIA ADVERTISEMENTS

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Abstract

Over the past few years, social media have become the popular digital platform for the users and advertisers of product and services. The marketers are targeting young users of social media to advertise their products and services. Because, youngsters are blindly believed the promises of advertisers and purchase the products or services without analysing the defect. The aim of advertising is to influence the consumers and create a positive impression on the products and services and impulse them to buy. But the fact is not like that, the result is dissatisfaction of users. The data were collected with the help of a questionnaire and proportionate random sampling technique was used to represent 388 respondents from 28 arts and science colleges in Kanyakumari district. The result of the study indicates that the respondents spend 1-2 hours in a day to access social media and they have privacy issues (3.652 mean score), Exaggeration (3.649 mean score).It is cleared that youngsters are facing some problems such as lack of privacy, Exaggeration, fails to promote ethical behaviour in advertisements and so on. This paper also suggests that the youngsters could conscious on every click and interaction with an advertisements or products page on social media sites.

Keywords: Social Media, Youngsters, Smartphone, Digital Platform & Marketers.

INTRODUCTION

In the wake of rising competition in the world of business, most of the companies have embarked on advertisement campaigns aimed at attracting consumers to their products and services. Social media is one of an indispensable element in everyone's life. Social networking sites such as Facebook, Instagram, Twitter and so on are extensively used by all, specifically the youngsters. The marketers are make use this as a chance to advertise their products and services among social media users. The aim of advertising is to influence the consumers and create positive impression on the products and services and impulse them to buy. While advertising the manufacturers has to take more effort to make their product appealing in the eyes of the target audience, so they do their advertisements expensive. But the fact is not like that, the result is disappointment of users. This form of advertising uses deceptive ways to convince users to buy products and services. The advertisements also have some imperfections in it such as Misrepresentation, exaggeration, misleading and so on.

REVIEW OF LITERATURE

Bindia Daroch(2017) analysed the view on social media advertising and indicates that due to risk of getting the virus by clicking advertising link consumers avoid advertisements on social media.Fitore Jashari and Visar Rrustemi(2017) states that 37.4 per cent respondents discuss their dissatisfaction with their friends and fellows and they won't make any complaint where they decided to avoid purchasing in these sites. Supriya Verma(2016) analysed that 64 per cent of respondents were accessed YouTube from their smartphones. Le Wang et.al.(2014) observed that pop up advertisements appeared when the pages are open, these advertisements are irritating and distracting the webpage users. Their results stated that social media users ignored these type of advertisements and they didn't give any importance to those advertisements. Kohnika Gope(2014) found the impact of social networking sites advertisements among the users in Bangladesh. She found that the