



# Holy Cross College (Autonomous)

Nagercoil – 629 004

Affiliated to Manonmaniam Sundaranar University, Tirunelveli  
Nationally Accredited with A+ Grade (CGPA 3.35) by NAAC IV Cycle  
An ISO 9001:2015 Certified Institution

SSR  
2019-2020  
to  
2023-2024

## 3.4.5 Bibliometrics of the Publications during the last five years based on average Citation Index in Scopus/ Web of Science

### Number of Research Papers Published in Scopus/ Web of Science - 29

S. No	Name of the Department	Total Number of Papers Published in Scopus indexed Journals	Total Number of Papers Published in Web of Science indexed Journals	Total Number of Papers Published in Scopus and Web of Science indexed Journals
1	Mathematics	4	-	1
2	Mathematics SF	2	-	-
3	Physics	-	-	13
4	Chemistry	2	-	-
5	Botany	1	1	3
6	English	2	-	-
<b>Total</b>		<b>11</b>	<b>1</b>	<b>17</b>

NAAC V Cycle Self Study Report (SSR)

S. No	Name of the Faculty	Title of the Article	Department	Name of the Journal	ISSN Number	Nature of the Journal Scopus/ Web of Science	Citation Index in Scopus	Citation Index in Web of Science
1.	Dr. V. M. Arul Flower Mary	The Minimum Dominating Energy of Star Related Graphs	Mathematics	Adalya	1301-2746	Scopus and Web of Science	-	-
2.	Dr. V. Sujin Flower	The Monophonic Global Domination Number of a Graph		Journal of Mathematical and Computational Science	1927-5307	Scopus	-	-
3.	Dr. V. M. Arul Flower Mary	The Minimum Dominating Seidel Energy of some Graphs		Design Engineering	0011-9342	Scopus	-	-
4.	Dr. V. Sujin Flower	The Edge-to-Edge Geodetic Domination Number of a Graph		Proyecciones	0716-0917	Scopus	-	-
5.	Dr. V. M. Arul Flower Mary and J. Anne Mary Leema	The Connected Geodetic Vertex Covering Number of a Graph		South East Asian Journal of Mathematics and Mathematical Sciences	0972-7752	Scopus	-	-
6.	Ms. V. Princy Kala	k-Super Cube Root Cube Mean Labelling of Graphs	Mathematics S.F	Proyecciones	0716-0917	Scopus	2	-
7.	J. Anne Mary Leema and Dr. V. M. Arul Flower Mary	The Edge Geodetic Vertex Covering Number of a Graph		Journal of Mathematical and Computational Science	1927-5307	Scopus	-	-

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8.	Dr. R. Krishna Priya	Characterisation of Alkali Treated Nelumbo Nucifera Fiber and Properties of its Reinforced Composite	Physics	Journal of Natural Fibers	1544-0478	Scopus and Web of Science	9	6
9.	Dr. S. Sonia and S. Virgin Jeba	Structural and Surface Characteristics of CuO and Pt/CuO Nanostructured Thin Films		Jordan Journal of Physics	1994-7607	Scopus and Web of Science	-	-
10.	Dr. S. Sonia	Surface-Enhanced Raman Spectroscopy Studies of Orderly Arranged Silica Nanospheres-Synthesis, Characterization and Dye Detection		Journal of Materials Science: Materials in Electronics	0957-4522	Scopus and Web of Science	3	3
11.	Dr. M. Abila Jeba Queen and P. Aji Udhaya	Enhanced Linear and Non-Linear Optical Activity of Lead onto l-Threonine Cadmium Acetate Crystal		Journal of Materials Science: Materials in Electronics	0957-4522	Scopus and Web of Science	3	3
12.	S. Sebastiammal and Dr. A. Lesly Fathima	Chemical and Sweet Basil Leaf Mediated Synthesis of Cerium Oxide (CeO <sub>2</sub> ) Nanoparticles: Antibacterial Action toward Human Pathogens		Phosphorus, Sulfur, and Silicon and the Related Elements	1042-6507	Scopus and Web of Science	10	8



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13.	S. Sebastiammal, Dr. S. Sonia and Dr. A. Lesly Fathima	Green Synthesis of Cerium Oxide Nanoparticles using Aloevera Leaf Extract and its Optical Properties		Songklanakarin Journal of Science and Technology	0125-3395	Scopus and Web of Science	10	-
14.	P. Aji Udhaya and Dr. M. Abila Jeba Queen	Albumen-Assisted Synthesis of Nanocrystalline Nickel Ferrite Photocatalyst		Jordan Journal of Physics	1994-7607	Scopus and Web of Science	-	-
15.	P. Aji Udhaya and Dr. M. Abila Jeba Queen	Albumen-Mediated Green Synthesis of ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles and their Physico- Chemical Properties		Jordan Journal of Physics	1994-7607	Scopus and Web of Science	-	-
16.	S. Sebastiammal, Dr. S. Sonia and Dr. A. Lesly Fathima	Physicochemical Properties and Antimicrobial Potential of Green Synthesized Cerium Oxide (CeO <sub>2</sub> ) Nanoparticles from Pomegranate Peel Extract		Jordan Journal of Physics	1994-7607	Scopus and Web of Science	-	-
17.	Dr. A. Lesly Fathima, Dr. S. Sebastiammal and S. Virgin Jeba	Effect of ZrO <sub>2</sub> Nanofiller on the Physical Properties of Epoxy Composites: Mechanical, Thermal and Dielectric		Jordan Journal of Physics	1994-7607	Scopus and Web of Science	-	-



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18.	Dr. M. Priya Dharshini and Dr. V. Shally	Structural and Optical Properties of Pure NiO Nanoparticles and NiO-Mn <sub>2</sub> O <sub>3</sub> , NiO-CdO, NiO-Pb <sub>2</sub> O <sub>3</sub> , NiO-ZnO Nanocomposites	Jordan Journal of Physics	1994-7607	Scopus and Web of Science	1	1
19.	Dr. S. J. Jenepha Mary	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	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	1386-1425	Scopus and Web of Science	33	30
20.	Dr. S. J. Jenepha Mary	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-	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	1386-1425	Scopus and Web of Science	13	12

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		yl)methylidene]-hydrazinecarbothioamide (Dimer) - Quantum Chemical Approach						
21.	Dr. S. Lizy Roselet	<sup>1</sup> H NMR – A Validation Tool for Supramolecular Complexes of $\alpha$ -Cyclodextrin with Antidiabetic Drugs	Chemistry	Materials Today: Proceedings	2214-7853	Scopus	1	-
22.	B.T. Delma, S. Sebastimmal and Dr. M. Anitha Malbi	Plant Mediated Synthesis and Characterization of Silver Nanoparticles using the Ethanolic Extract of Mangifera Indica Seed and their Antimicrobial Activity		Design Engineering	0011-9342	Scopus	-	-
23.	Dr. Bojaxa A Rosy	Computational Calculations and Molecular Docking Studies on 2-(2-ethylaminothiazol-5-oyl)benzothiazole	Botany	Indian Journal of Chemistry	0019-5103	Web of Science	1	1
24.	Dr. J. Albino Wins	Formulation of Value-Added Products from Jamun Seed without Loss in the Physicochemical and Medical Properties		Turkish Journal of Physiotherapy and Rehabilitation	2651-4451	Scopus and Web of Science	-	-





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25.	Dr. N. Benit	In vitro fibrinolytic activity of an enzyme purified from Bacillus amyloliquefaciens strain KJ10 isolated from soybean paste		Saudi Journal of Biological Science	1319-562X	Scopus and Web of Science	10	-
26.	Dr. N. Benit	Carbapenemases producing Klebsiella pneumoniae from the pus of hospitalized patients: In-vitro antibiotic properties of Streptomyces against multidrug resistant infectious bacteria		Journal of Infection and Public Health	1876-035X	Scopus and Web of Science	5	-
27.	Dr. J. Albino Wins	Production and Characterization of Extracellular Pectinase from a Newly Isolated Bacillus Species from Fruit Waste Soil		Materials Today: Proceedings	2214-7853	Scopus	6	-
28.	Dr. R. Abilasha	Function of Brain in L2 Learning - Neurolinguistic Perspective	English	Linguistica Antverpiensia, New Series - Themes in Translation Studies	0304-2294	Scopus	-	-
29.	Dr. R. Abilasha	The Prominence of Innovative Ideas and Technologies in ELT Classroom		Linguistica Antverpiensia, New Series - Themes in Translation Studies	0304-2294	Scopus	-	-