



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

3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Number of Research Papers Published in Scopus/ Web of Science - 54

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	7	1	2
2	Physics	1	3	14
3	Chemistry	-	-	3
4	Botany	3	1	1
5	Zoology	-	5	2
6	Computer Science	-	-	2
7	English	3	-	-
8	English SF	2	-	-
8	Economics	1	-	-
9	Commerce	-	-	3
Total		17	10	27

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	h-index in Scopus	h-index in Web of Science
1.	Dr. S. Sujitha and Dr. M. K. Angel Jebitha	First Zagreb Matrix and Energy of a T2 Hypergraph	Mathematics	South East Asian Journal of Mathematics and Mathematical Sciences	0972-7752	Scopus	2	1
2.	Dr. J. Befija Minnie	The Upper Certified Domination Number of a Graph		Journal of Data Acquisition and Processing	1004-9037	Scopus	-	-
3.	Dr. K. Jeya Daisy	K- Product Cordial Labelling of Fan Graphs		Turkish World Mathematical Society Journal of Applied and Engineering Mathematics	2146-1147	Scopus and Web of Science	5	-
4.	Dr. S. Sujitha	The Connected Edge-to-Vertex Geodetic Number of a Graph		Journal of the Indian Mathematical Society	0019-5839	Scopus	2	1
5.	Dr. M. K Angel Jebitha and Dr. S. Sujitha	Results on Eccentric Hypergraph of a k-Uniform Tight Cycle		Tuijin Jishu / Journal of Propulsion Technology	1001-4055	Scopus	1	-
6.	Dr. S. Sujitha and Dr. M. K. Angel Jebitha	Distance Based Topological Indices of a Nanorod Graph		Indian Journal of Natural Sciences	0976-0997	Web of Science	2	1

NAAC V Cycle Self Study Report (SSR)

7.	Dr. S. Sujitha	Adjacent Line Graph in Ferrers Graph		Tuijin Jishu / Journal of Propulsion Technology	1001-4055	Scopus	2	1
8.	Sr. S. Antin Mary and Dr. G. Hesil Jerda	Psychological Wellbeing and Avoidance Strategies as Moderators between Excessive Social Media Use and Academic Performance among Indian College Students		Journal of Public Mental Health	1746-5729	Scopus and Web of Science	1	-
9.	Dr. S. Sujitha and Dr. M.K. Angel Jebitha	Sum Connectivity Matrix and Energy of a T2 Hypergraph		South East Asian Journal of Mathematics and Mathematical Sciences	0972-7752	Scopus	2	1
10.	Sr. S. Antin Mary	Independent Fixed Connected Geodetic Number of a Graph		Ars Combinatoria	0381-7032	Scopus	1	-
11.	Dr. P. Aji Udhaya and Dr. M. Abila Jeba Queen	Copper Ferrite Nanoparticles Synthesised using a Novel Green Synthesis Route: Structural Development and Photocatalytic Activity	Physics	Journal of Molecular Structure	0022-2860	Scopus and Web of Science	6	5
12.	Dr. P. Aji Udhaya	Facile Synthesis of Ni ²⁺ Doped MgFe ₂ O ₄ Spinel Nanoparticles: Structural, Optical, Magnetic and Dielectric Behavior		Journal of Inorganic and Organometallic Polymers and Materials	1574-1443	Scopus and Web of Science	6	5
13.	Dr. M. Abila Jeba Queen and Dr. P. Aji Udhaya	Investigation on the Effect of Potassium on the Structural, Optical and Thermal Properties of the L-Threonine Cadmium Acetate: Elucidation of Organo-Cadmium Compound for Dielectric Filters		Journal of Materials Science: Materials in Electronics	0957-4522	Scopus and Web of Science	3	1

NAAC V Cycle Self Study Report (SSR)

14.	Dr. M. Abila Jeba Queen	Comparative Study on Structural, Mechanical, Optical and Dielectric Properties of L-Alanine Cadmium Chloride and Manganese L-Alanine Cadmium Chloride Crystal	Chemistry Africa	2522-5758	Scopus and Web of Science	3	1
15.	Dr. M. Abila Jeba Queen	Mechanically Potent Organo-Strontium Crystal as Optical Filters in the Ultraviolet Region	Metszet	2061-2710	Scopus	3	1
16.	Dr. M. Priya Dharshini	Tribological and Machining Characteristics of AA7075 Hybrid Composites and Optimizing Utilizing Modified PROMETHEE Approach	Materials Research Express	2053-1591	Scopus and Web of Science	2	2
17.	Dr. R. Krishna Priya	Investigation on Properties of Raw and Alkali Treated Novel Cellulosic Root Fibres of Zea Mays for Polymeric Composites	Polymers	2073-4360	Scopus and Web of Science	7	7
18.	Dr. R. Krishna Priya	Characterisation of Sodium Acetate Treatment on Acacia Pennata Natural Fibres	Polymers	2073-4360	Scopus and Web of Science	7	7
19.	Dr. R. Krishna Priya	Biodegradable Green Composites: Effects of Potassium Permanganate (KMnO ₄) Treatment on Thermal, Mechanical and Morphological Behaviour of Butea Parviflora Fibers	Polymers	2073-4360	Scopus and Web of Science	7	7



NAAC V Cycle Self Study Report (SSR)

20.	Dr. R. Krishna Priya	Investigating the Mechanical, Thermal and Crystalline Properties of Raw and Potassium Hydroxide Treated Butea Parviflora Fibers for Green Polymer Composites	Polymers	2073-4360	Scopus and Web of Science	7	7
21.	Dr. R. Krishna Priya	Physico-Chemical and Extraction Properties on Alkali-Treated Acacia Pennata Fiber	Environmental Research	0013-9351	Scopus and Web of Science	7	7
22.	S. Virgin Jeba, Dr. S. Sonia and Dr. A. Lesly Fathima	Exploring the Growth Kinetics of Novel and Diverse Morphologies in Nickel Oxide Nanostructures	Inorganic Chemistry Communications	1387-7003	Scopus and Web of Science	1	1
23.	Dr. R. Krishna Priya	Examining the Physico-Chemical, Structural and Thermo-Mechanical Properties of Naturally Occurring Acacia Pennata Fibres Treated with KMnO ₄	Scientific Reports	2045-2322	Scopus and Web of Science	7	7
24.	Dr. R. Krishna Priya	Enhancing Structural, Thermal and Mechanical Properties of Acacia Pennata Natural Fibers through Benzoyl Chloride Treatment for Construction Applications	Case Studies in Construction Materials	2214-5095	Scopus and Web of Science	7	7
25.	Dr. S. Virgin Jeba and Dr. A. Lesly Fathima	Chitosan's Structural Properties which Extracted from Marine Crustacean	Indian Journal of Natural Sciences	0976-0997	Web of Science	1	1
26.	Dr. S. Sonia	Turkey Femur Bone Derived Hydroxyapatite: An Efficient catalyst for Toxic Dye Degradation	Indian Journal of Natural Sciences	0976-0997	Web of Science	12	11

NAAC V Cycle Self Study Report (SSR)

27.	Dr. S. Sonia	From Agri-Waste to High-Performance Material: Synthesis of Rice Husk Activated Carbon (RAC) and Rice Husk Activated Carbon / Copper Oxide (RACU) for Electrochemical Performance		Indian Journal of Natural Sciences	0976-0997	Web of Science	12	11
28.	Dr. S. J. Jenepha Mary	Quantum Chemical Investigations on the Hydrogen-Bonded Interactions of Bioactive Molecule N2-(4-Methoxysalicylidene) Arginine Hemihydrate		Polycyclic Aromatic Compounds	1040-6638	Scopus and Web of Science	3	2
29.	Dr. Y. Christabel Shaji	Synthesis and Characterization of Quercetin-Layer Double Hydroxide (LDH) Nanohybrid and their Enhanced Antioxidant Activity	Chemistry	Bulletin of the Chemical Society of Ethiopia	1011-3924	Scopus and Web of Science	1	1
30.	M. Antilin Princela, B.T. Delma, S. Lizy Roselet and M. Shirly Treasa	Biocompatibility of Ionic Liquid Tagged Terpyridine Complexes with Potent Biological Activity		Chemical Physics Impact	2667-0224	Scopus and Web of Science	2	2
31.	Dr. M. Anitha Malbi	Synthesis, Characterization and Biological Activity of Zinc Complexes of Ethylenediamine and its Derivatives		Chemical Physics Impact	2667-0224	Scopus and Web of Science	1	-
32.	Dr. S. Kala vetha Kumari	Biological Analysis of <i>Cocos Nucifera</i> L. Endocarp Extracts	Botany	Journal of Survey in Fisheries Sciences	2368-7487	Scopus	-	-

NAAC V Cycle Self Study Report (SSR)

33.	Dr. Bojaxa A. Rosy	A Preliminary Qualitative and Quantitative Phytochemical Screening of <i>Annona muricata</i> L. Leaf using Various Solvent Extracts		Journal of Survey in Fisheries Sciences	2368-7487	Scopus	3	2
34.	Dr. Bojaxa A Rosy	Phytochemical and Anticancerous Potential of the Fruit Extract of <i>Annona Muricata</i> I		Latin American Journal of Pharmacy	0326-2383	Scopus and Web of Science	3	2
35.	Dr. A. R. Florence	Ethnomedicinal Plants used by the People of Thickanamcode Village, Kanyakumari District, Tamil Nadu, India		International Journal of Biology Pharmacy and Allied Sciences	2277-4998	Web of Science	3	-
36.	Dr. J. Celin Pappa Rani	Land Resource Management and Planning using Remote Sensing and Geographic Information Systems		Journal of Data Acquisition and Processing	1004-9037	Scopus	-	-
37.	Dr. C. Anitha, Dr. P.T. Arokya Glory, Dr. S. Prakash Shoba and Dr. C. Josephine Priyatharshini	In Vitro Antimicrobial Activity of Flower Extracts of <i>Plumbago indica</i> L. against Pathogenic Bacteria and Fungi	Zoology	International Journal of Zoological Investigations	2454-3055	Web of Science	-	-
38.	Dr. S. Prakash Shoba, Dr. P.T. Arokya Glory, Dr. X. Venci Candida, Dr. A. Punitha and Dr. C. Anitha	Analysis of Attitude of Public towards Prenatal Screening for Diagnosis of Genetic Disorders		Egyptian Academic Journal of Biological Sciences B. Zoology	2090-0759	Web of Science	-	-
39.	Dr. X. Venci Candida	Screening of Secondary Metabolites by FT-IR Spectroscopy		Indian Journal of Natural Sciences	0976-0997	Web of Science	-	-

NAAC V Cycle Self Study Report (SSR)

40.	Dr. S. Mary Mettilda Bai and Dr. J. Vinoliya Josephine Mary	Antimicrobial, Anti-Inflammatory and Anti-Arthritic Activity of Hemolymph Lectin (NagLec) Isolated from the Freshwater Crab, <i>Oziotelphusa Naga</i>		Fish and Shellfish Immunology	1050-4648	Scopus and Web of Science	2	-
41.	Dr. X. Venci Candida, Dr. P. T. Arokya Glory, and Dr. S. Prakash Shoba	Assessment of Arthropod Biodiversity in Mulberry Plants during the Summer Season		Egyptian Academic Journal of Biological Sciences A. Entomology	1687-8809	Web of Science	-	-
42.	Dr. X. Venci Candida	Preliminary Analysis of Gross Alpha and Beta Radiation in Coastal Areas		Egyptian Academic Journal of Biological Sciences B. Zoology	2090-0759	Web of Science	-	-
43.	Dr. A. Shyla Suganthi	Morphological and Molecular Identification of the Freshwater Crab, <i>Barytelphusa Cunicularis</i> from Kanniyakumari, India		Journal of Environmental Biology	0254-8704	Scopus and Web of Science	1	1
44.	Dr. S. Immaculate Shyla	Adaptive Golden Eagle Optimization based Multi-Objective Scientific Workflow Scheduling on Multi-Cloud Environment	Computer Science	Multimedia Tools and Applications	1380-7501	Scopus and Web of Science	2	2
45.	Dr.F. Fanax Femy	ODMNet: Automated Glaucoma Detection and Classification Model using Heuristically-Aided Optimized DenseNet and MobileNet Transfer Learning		Cybernetics and Systems	0196-9722	Scopus and Web of Science	1	-



NAAC V Cycle Self Study Report (SSR)

46.	Dr. H. Jimsy Asha	The Fragile Threads of Memory: Unraveling the Labyrinth of Memory Spectrum in Julian Barnes' The Sense of an Ending	English	Journal of Harbin Engineering University	1006-7043	Scopus	1	-
47.	Dr. H. Jimsy Asha	Beyond the Frames: Decoding John Crowley's Artistic Signature in The Goldfinch through Filmic Vision	English S.F	Tuijin Jishu/ Journal of Propulsion Technology	1001-4055	Scopus	1	-
48.	Dr. H. Jimsy Asha	Captive Canaries and Splintered Frames: Unraveling the Tapestry of Trauma in Donna Tartt's The Goldfinch		Journal of Harbin Engineering University	1006-7043	Scopus	1	-
49.	Ms. J. Alisha Josephine and Dr. H. Jimsy Asha	Exploring the Entanglement of Toxic Relationships: Literary Insights and Psychological Perceptives in the Novel My Year of Rest and Relaxation		Journal of Harbin Engineering University	1006-7043	Scopus	1	-
50.	Ms. J. Alisha Josephine	Beyond Irony and Disillusionment: Decoding Cultural Paradigms in David Foster Wallace's Infinite Jest	Economics	Tuijin Jishu/ Journal of Propulsion Technology	1001-4055	Scopus	1	-
51.	Dr. S. Vimal Dolli	Economic Factors of Happiness among Working Women		Journal of Harbin Engineering University	1006-7043	Scopus	-	-
52.	Dr. G. Hesil Jerda	Quality of Work Life as a Precursor to Work-Life Balance: Collegiality and Job Security as Moderators and Job Satisfaction as a Mediator	Commerce	Sustainability	2071-1050	Scopus and Web of Science	2	-



NAAC V Cycle Self Study Report (SSR)

53.	Dr. G. Hesil Jerda and Dr. S. Sahayaselvi	The Relationship between Green Packaging Awareness, Initiatives, and Behavior: An Exploratory Study on India Rural Population		RAUSP Management Journal	2531-0488	Scopus and Web of Science	2	-
54.	Dr. G. Hesil Jerda and Dr. S. Sahayaselvi	Green Packaging as a Precursor to Sustainable Environment: Evidence from Rural India		Journal of Environment and Development	1070-4965	Scopus and Web of Science	2	-



Ali

PRINCIPAL
Holy Cross College
(Autonomous)
Nagercoil - 629 004.

