

Department of Chemistry Publications -2024-2025

S.NO.	NAME OF THE STAFF	TITLE OF THE PAPER PUBLISHED	PUBLICATION DETAILS	LINK
			Title of the Journal with Volume No. issue No. & Pages, Month & Year, ISSN/ISBN No. & Impact factor, (H. Index etc.) UGC Approved Journals etc.	
1.	F. Virginia, Dr. L. Cathrine , Sebin Fernandez, Dr. P. Pratheema, J. Dr. Morris Princey , A. Jerlin Philo, V. Mareeshwari, and S. Harithasakthi	Isolation, purification and characterization of diosgenin, a phytosterol sapogenin from the ethanolic root extract of Coleus forskohlii and its anti-ovarian cancer efficacy on the SKOV-3 cell line.	Oriental Journal of Chemistry, Vol 40, issue 3, 846-855, June 2024, ISSN: 0970 - 020X, ONLINE ISSN: 2231-5039 (WoS) IF: 0.7	Isolation and Characterization of Diosgenin, a Phytosterol Sapogenin from the Ethanolic Root Extract of Coleus forskohlii, and its Anti-ovarian Cancer Efficacy on the SKOV-3 Cell Line : Oriental Journal of Chemistry

2.	Dr. L. Cathrine , F. Virginia and Sebin Fernandez	Isolation, purification and characterization of botulin, a pentacyclic triterpenoid from the ethanolic extracts of <i>Coleus forskohlii</i> tuberous roots- its antimicrobial, antioxidant, anti-inflammatory and cytotoxicity appraisals.	Moroccan Journal of Chemistry, Vol 12, issue 4, 1531-1553, July 2024, ISSN: 2351-812X (WoS & Scopus) IF: 2.4	Isolation, purification, and characterization of betulin, a pentacyclic triterpenoid from the ethanolic extracts of <i>Coleus forskohlii</i> tuberous roots; its antimicrobial, antioxidant, anti-inflammatory and cytotoxicity appraisals.: Phytochemistry Moroccan Journal of Chemistry
3.	F. Virginia, Dr. L. Cathrine , P. Leenus, P. Pratheema, A.J. Philo	Bioinspired green synthesis of ZnO nanoparticles using the ethanolic root extract of <i>Coleus forskohlii</i> , characterization and evaluation of its synergistic antimicrobial and anticancer activity.	Moroccan Journal of Chemistry, Vol 12, issue 4, 1683-1706, September 2024, ISSN: 2351-812X (WoS & Scopus) IF: 2.4	A Bioinspired green synthesis of ZnO nanoparticles using the ethanolic root extract of <i>Coleus forskohlii</i>: characterization and evaluation of its synergistic antimicrobial and anticancer activity: Nanochemistry Moroccan Journal of Chemistry

4.	Dr. V. Priya and Dr. V. Priya Roseline	Synthetic Utility of N-Chloronipecotamide in the Kinetic Study of Oxidation of 5-Methylisatin in Aqueous Acetonitrile Medium by Potentiometric Method.	Corrosion and Protection, Vol-52, Issue 1(2024), p 156-160, July-Dec 2024ISSN: 1005-748X (Scopus) IF: 0.16	https://www.scimagojr.com/journalsearch.php?q=25187&tip=sid&clean=0
5.	J.Thabitha, Dr. V. Priya, Dr. J. Morris Princey, Dr. V. Priya Roseline , G. Dayana Jayaleela	Phytochemical screening and antioxidant activities of <i>Milletia Pinnata</i> and <i>Terminalia Catappa</i> .	Library Progress, International, Vol 44, No.3, P.27602-27612, July-Dec 2024, ISSN: 2320-317X(online), ISSN: 0970-1652(Print). (Scopus) IF:	Phytochemical Screening and Antioxidant Activities of Milletia Pinnata and Terminalia Catappa Library Progress International
6.	H. Asia Thabassoom and Dr. J. Felicita Florence	Optimized Electroless Nickel Deposition on Mild Steel using lawsone as complexing agent	Surface Review and Letters (Scopus) ISSN (print): 0218-625X ISSN (online): 1793-666 IF: 1.2	https://worldscientific.com/doi/full/10.1142/S0218625X25500581
7.	H. Asia Thabassoom and Dr. J. Felicita Florence	Electroless Ni-Zn-P ternary deposits on mild steel with Lawsone.	Chemical science review and letters, 13(51), 157-170, Dec 2024, ISSN 2278-6783. (Scopus) IF:	Issue 51 – Chemical Science Review and Letters Electroless Ni-Zn-P Ternary Deposits on Mild Steel with Lawsone

8.	Dr. J. Felicita Florence, Dr. R. Kanmani and Dr. J. Amala Infant Joice, Auxilia Ruby Sagaya Irudayaraj, Divya Priya Chinnasamy	Synthesis and characterization of selenicereus undatus extract mediated nano-Bi ₂ O ₃ and its application in the adsorption of Rhodamine B dye.	Zastita Materijala, Vol. 65, PP:1-13, July 2024 ISSN 0351-9465, E-ISSN 2466-2585 (Scopus) IF: 2.984	Synthesis and characterization of Selenicereus undatus extract mediated nano-Bi₂O₃ and its application in the adsorption of Rhodamine B dye Zastita Materijala
9.	Dr. S. Margret Sheela, Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy and Dr. A. Agila, J. Theeshma, J. Santhiya	Green biosynthesis of silver nanoparticles using aqueous extract of Pseuderanthemum reiculatum laves of their antioxidant and antiaging activities.	Asian Journal of Chemistry, 36(12), 2765-2711, Dec 2024, ISSN: 0975-427X (Online) ISSN: 0970-7077 (Print) (Scopus) IF : 0.278	https://asianpubs.org/index.php/ajchem/article/view/36_12_7
10.	Dr. J. Morris Princey, Muthumariappan Akilarasan, Muhammad Ali Ehsan, Muhammad Nawaz Tahir, Mudasir Akbar Shah, Wasif Farooq*	In situ electrochemical conversion of biomass derived 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid by time-controlled aerosol-assisted chemical vapour deposited FeNi catalyst.	ACS Omega, 9, 42, 42766-42777, Oct 2024, (Scopus) IF : 4.1	In Situ Electrochemical Conversion of Biomass-Derived 5-Hydroxymethylfurfural into 2,5-Furandicarboxylic Acid by Time-Controlled Aerosol-Assisted Chemical Vapor Deposited FeNi Catalyst ACS Omega
11.	Surya Uthrapathy ^a , Balasankar Thirunavukkarasu ^b , Kodisundaram Paulrasu ^{a c} , Tanzeer Ahmad Dar ^a , Manikandan P	Phthalazine based hydrazone as potent radical scavenger: synthesis, spectral	Results in Chemistry, 13, Dec 2024, 101958, 2211-7156, (Scopus)	https://www.sciencedirect.com/science/article/pii/S2211715624006544

	alrasu ^d , Morris Princey ^e , Krishnapriya Thangaretnam ^c , Vinoth Murali ^f	characterization, single crystal XRD, DFT studies, molecular docking, ADME, anti-oxidant and anti-microbial activity of 1,2-substituted benzylidene phthalazine derivatives.	IF : 2.5	
12.	Dr. A. Agila, Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy, Dr. S. Margrat Sheela, Ms. S. Vimala and R. Dakshayani	Exploring the therapeutic potential of Pergularia daemia: Synthesis and characterization of zinc oxide nanoparticles.	Oriental Journal of Chemistry, Vol 40, issue 4, pp: 1061-1066, August 2024, ISSN: 0970 - 020X, ONLINE ISSN: 2231-5039. (WoS) IF: 0.7	https://www.orientchem.org/vol40no4/exploring-the-therapeutic-potential-of-pergularia-daemia-synthesis-and-characterization-of-zinc-oxide-nanoparticles/
13.	A. Motcha Rakkini, Raimands Sahaya Raison Libu, Nikolai Ivanovich Vatin, Sandhanasamy Devanesan, T. Selvankumar, L. Mary Arul Rosaline, J. Amala Infant Joice , Saurav Dixit & Huang-Mu Lo	Enhancing photocatalytic activity and biological applications of TiO ₂ nanoparticles using Moringa Olifera leaf extract, Waste and Biomass Valorization.	Waste and Biomass Valorization, 15(11), PP: 6523-6537, July 2024 , ISSN: 1877-265X. (WoS) IF: 2.6	https://link.springer.com/article/10.1007/s12649-024-02670-6
14.	Dr. M. Stella Bharathy ,Dr. J. Rosaline Vimala Dr. A. Agila , Dr. Dayana Jeyaleela and Arockiya raj Divya	Antibacterial Agent of Echenochloa Esculente Mediated ZnO	Journal of Reports in Pharmaceutical Sciences,	https://brieflands.com/articles/jrps-146210

		Nanoparticle on Urinary Tract Infection Causing Bacteria.	Vol.12(1), 1-6, Jan-Dec (2024), ISSN: 2322-5106 (Scopus and WoS) IF: 0.6	
15.	Dr. A. Tony Elizabeth^a , S. Denis Arockiaraj ^b , A.I. Rajasekaran ^b , Antonisamy Edwin Vasu	Morinda Coreia fruits derived green-emissive nitrogen doped carbon quantum dots: Selective and sensitive detection of ferric ions from water.	Inorganic Chemistry Communications, Vol- 164, Page:112390, June 2024, ISSN: 1387-7003, Elsevier (Scopus) IF: 4.4	https://www.sciencedirect.com/science/article/abs/pii/S1387700324003733
16.	A. Nivetha*, Dr. P. Christina Ruby Stella , A. Angel Praba1, V.S. Sangeetha	Anticancer activity of flavanone isolated from citrus medica and its combination effect with a synthetic drug 2-Deoxy-D-Glucose.	Oriental Journal of Chemistry, Vol-40, issue 4, pp: 1116-1126, Aug 2024, 0970-020 X (WoS) IF: 0.7	https://www.orientjchem.org/vol40no4/anticancer-activity-of-flavanone-isolated-from-citrus-medica-and-its-combination-effect-with-a-synthetic-drug-2-deoxy-d-glucose/
17.	Muthumariappan Akilarasan ^{a 1} , Santhiyagu Sahayaraj Rex Shanlee ^{b 1} , Shen-Ming Chen ^b , Wasif Farooq ^a ^c , Pichai Christina Ruby Stella	In-situ Profiling of Environmental Hazardous Sulfamethoxazole in Aquatic and Artificial Saliva samples Using Perovskite Structured Bismuth Ferrite	FlatChem, Elsevier, Vol-48, 100749, Nov 2024, ISSN:2452-2627 (Online) (Scopus) IF:5.9	In-situ Profiling of Environmental Hazardous Sulfamethoxazole in Aquatic and Artificial Saliva samples Using Perovskite Structured Bismuth Ferrite Incorporated Halloysite Nanotubes - ScienceDirect

		Incorporated Halloysite Nanotubes.		
18.	Dr. P. Christina Ruby Stella, A. Angel Praba* and A. Nivetha	Phyto fabrication of selenium nanoparticles for investigating their efficacy as nanotherapeutics against Lung Carcinoma cells and bacterial pathogens.	Oriental Journal of Chemistry, 41(1), Jan 2025,0970-020 X (WoS) IF: 0.7	https://www.orientjchem.org/vol41no1/phytofabrication-of-selenium-nanoparticles-for-investigating-their-efficacy-as-nanotherapeutics-against-lung-carcinoma-cells-and-bacterial-pathogens/

Books Published

S. No.	Year	Name of the Faculty	Name of the publisher	Book Name	ISBN No.
1.	November 2024	Department of Chemistry	Ryan Publishers, Trichy	Proceedings of the International Conference on “Frontiers in Material Research: Innovations and Challenges towards a Greener Future”	978-93-48615-52-7
2.	December 2024	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	Innovation online Training Academy	Nutrition and Dietetics- A Holistic approach to Health	978-93-93622-72-3.
3.	January 2025	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	Innovation online Training Academy	Green Chemistry and Nanotechnology- Collaborative pathways to sustainability.	978-93-48990-83-9.

4.	March 2025	Dr. J. Amala Infant Joice and Ms. R. Apoorvasundari	Ryan Publishers, Trichy	Solar-Mediated Detoxification process of harmful pollutants for the sustainable environment using metal doped titania nano catalysts	978-93-48615-56-5
5.	March 2025	Dr. L. Cathrine Dr. V. Priya Dr. J. Rosaline Vimala Dr. J. Felicita Florence Dr. S. Margrat Sheela Dr. J. Morris Princey Dr. J. Amala Infant Joice Dr. M. Stella Bharathy Dr. F. Janeeta Priya Dr. P. Christina Ruby Stella	Ryan Publishers, Trichy	Allied: Fundamental Concepts of Chemistry (Volume-I)	978-93-48615-03-9
6.	March 2025	Dr. V. Priya Dr. R. Kanmani Dr. S. Vidhya Dr. A. Agila Dr. M. Stella Bharathy Dr. A. Tony Elizabeth Dr. V. Priya Roseline Dr. M. Kavitha Ms. S.Vimala	Holy Cross Publishing House	Allied: Fundamental Concepts of Chemistry (Volume-II)	ISBN: 978-81- 983307-6-5

Book Chapters

S. No.	Year	Name of the Faculty	Name of the publisher	Book Name	Chapter Title	ISBN No.
1	October 2024	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	IoT Academy	Current developments in biological science	Innovative SRSiO ₃ / TiO ₂ photocatalyst for efficient solar degradation of Congo red dye	978-93-93622-73-0
2	December 2024	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	IoT Academy	Roles of Plants microbes and animals in medicine	Phytochemical investigation of ecofriendly fabrication of silver nanoparticles utilizing the aqueous extract of catharous Roseus.	978-93-49238-38-1
3	February 2025	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	IoT Academy	Research in Life Science.	Investigation of <i>Musa paradisiaca</i> bract as potential corrosion inhibitor for aluminium in HCl Medium,	978-93-48990-01-3.
4	March 2025	Dr. A. Leema Rose, Dr. S. Vidhya and Dr. F. Janeeta Priya	BP International	Chemistry and Biochemistry Progress Volume. 3	Synergistic Effects of Synthesized Copper Nanoparticles on Escherichia Coli and Staphylococcus Aureus	978-93-49238-76-3

5	June 2024	Dr. V. Priya and Dr. V. Priya Roseline	RYAN Publishers	One Day International Conference on “Exploring New Horizons in Chemical Sciences”(ENHCS- 2024)	Anticancer activities of green synthesized copper oxide nanoparticles from <i>Sarcostemma acidum</i> stem extract (ENHCS-2024)	978-81-19587-23-0
6	June 2024	Dr. V. Priya and Dr. V. Priya Roseline	RYAN Publishers	One Day International Conference on “Exploring New Horizons in Chemical Sciences”(ENHCS- 2024)	Synthetic utility of N- Chloronipecotamide in the kinetic study of oxidation of 5-methylisatin in aqueous acetonitrile medium by potentiometric method) in One day International conference on Exploring New Horizons In Chemical Sciences(ENHCS-2024)	ISBN: 978-81-19587- 23-0.
7	November 2024	Dr. J. Felicita Florence	BP International	Recent developments in chemistry and biochemistry research, Vol 8.	Sustainable Electroless Ni-P Deposition on Mild Steel with Natural Reductants from Lawsone	ISBN 978-93-48388- 53-7 (Print) ISBN 978-93-48388- 10-0 (eBook)
8	March 2025	Dr. V. Priya and Dr. Merlin Mejrullo	IoT Academy		Campus automation and IoT-Focus on the existing institutional facility and future plans with a survey based approach”-AI and IoT Applications	ISBN: 978-93-48990- 27-3

Indexed Conference Proceedings

S. No.	Name of the Staff	Seminar/Workshop/Conference With the Topic	Participated/Paper Presented with the Title	Sponsored by	Place and Duration
DEPARTMENT OF CHEMISTRY					
1.	Dr. A. Leema Rose, Dr. S. Vidhya, Dr. F. Janeeta Priya, A. and T.R. Amsica ,	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Chemically modified polymer as antimicrobial agent”	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024
2.	Dr. A. Leema Rose, Dr. S. Vidhya, Dr. F. Janeeta Priya, A. T.R. Amsica, and P. Aparna	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Facile bifunctional synthesis of sensitive electrochemical sensor for endocrine disrupting plasticizers	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
3.	Dr. A. Leema Rose, Dr. S. Vidhya, Dr. F. Janeeta Priya, A.Arputharaj and R.Sellapa Jayanthi	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”,	Ecological synthesis of silver nanoparticles using <i>Araches Hypogala</i> and its anti-larvicidal activity	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous)

		ISBN: 978-93-48615-52-7			Tiruchirappalli-2, 26 th and 27 th November 2024.
4.	S. Vidhya, A. Leema Rose, F. Janeeta Priya , T.R. Amsica, R. Abinaya, A. Shameem	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Corrosion Inhibition Of Mild Steel Using Isolated Polyphenols From Terminalia Chebula Bark Extract	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
5.	Dr. A. Leema Rose and Durga Devi	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Green Corrosion Inhibitory Efficiency Of Isolated Flavonoid From Spermacoce Hispida Leaves On Mild Steel In Acid Medium	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
6.	Dr. A. Leema Rose and A. Satish	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Evaluation Of Sansevieria Roxburghiana Leaves Extract As Green Anti-Corrosive Agent For Mild Steel In 1 M HCl	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
7.	F. Virginia1, Dr. L. Cathrine, Sebin Fernandez	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”,	Bioinspired Synthesis of ZnO Nanoparticles Using Coleus Forskohlii Roots:	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous)

		ISBN: 978-93-48615-52-7	Characterization And Biological Activities		Tiruchirappalli-2, 26 th and 27 th November 2024.
8.	F. Virginia ¹ , Dr. L. Cathrine, Sebin Fernandez	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Isolation, Characterization, And Pharmacological Studies Of Octadecane From Methanolic Extract of Crateva Religiosa	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
12.	J. Thabithal , Dr. V. Priya, Dr.V. Priya Roseline and B. Vasundara	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	A study on the optimization for the synthesis of metal oxide nanoparticles from the ethanolic extracts of Terminalia Catappo leaves.	TNSCST	PG and Research Department of Chemistry, Holy Cross College (Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
13.	Dr. V. Priya Roseline, Dr. V. Priya J.Thabithal, S.Roshini and T. Vaishali	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Anti-obesity potential of copper oxide nanoparticle using biological & polymer functionalized method mediated by Sarcastemma Acidum extract.	TNSCST	PG and Research Department of Chemistry, Holy Cross College (Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
14.	Dr. V. Priya and J. Thabithal	International Conference on Recent Trends in Chemistry and Energy Science	Eco-friendly synthesis and Characterisation of Silver Nanoparticles		Saraswathi Narayanan College, Madurai,13 th September 2024

		ISBN: 978-93-92560-76-7	using Terminalia Catappa Extract		
15.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy , m. Sanjusri and Dr. A. Agila	International Conference on Recent Trends in Chemistry and Energy Science ISBN: 978-93-92560-76-7	Exploring anti-cancer and antioxidant potential of zinc and copper oxide nanoparticles synthesized with Mukia maderaspatana		Saraswathi Narayanan College, Madurai, 13 th September 2024 9878-93-342-3059-8
16.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy S. Nivetha A. Devadharshini Amala and Dr. A. Agila	International Conference on Recent Trends in Chemistry and Energy Science ISBN: 978-93-92560-76-7	Synthesis and characterization of Rutin-functionalized Cu-Zn nanoparticles for enhanced antimicrobial activity		Saraswathi Narayanan College, Madurai, 13 th September 2024
17.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy, Dr. A. Agila, Dr. S. Margret Sheela ,Ms. S. Vimala, M. Jothika and M. Sanjusri	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Evaluation of antimicrobial and antiaging potential of silver nanoparticles synthesized from Albiria Amara	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
18.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy, Dr. A. Agila, Dr. S. Margret Sheela, Ms. S.	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Assessment of antimicrobial and antiaging potential of silver nanoparticles synthesized from Diospyros Burifolia	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous)

	Vimala, C. Revathi and M. Sanjusri				Tiruchirappalli-2, 26 th and 27 th November 2024.
19.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy, Dr. A. Agila, Dr. S. Margret Sheela, Ms. S. Vimala, , A. Varsha, S. Nivetha and A. Devadharshini Amala	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Novel synthesis of bimetallic nanocomposites and its photocatalytic activity.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
20.	S. Yuvasri, T.S. Abinaya, S. Chandarprena, S. Margrat Sheela, J. Rosaline Vimala, M. Stella Bharathy and A. Agila	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Synthesis and characterization of bio-plastic from Manihot esculentum Nysa sopuebtyn abd Zeanats.L	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
21.	A. Agila, M. Stella Bharathy, J. Rosaline Vimala, S. Margrat Sheela, S. Vimala, S. Nivetha and V. M. Suvitha Raveena	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Exploring the therapeutic potential of Nyctanthes Artor-Tristis: Synthesis and characterization of nickel oxide nanoparticles.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
22.	J. Rosaline Vimala , S. Nivetha, A. Devadharshini Amala, S. Backiyalakshmi, S. Vimala , A. Agila, M.	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Facile synthesis of bimetallic nanocomposite using eggshell derived hydroxyapatite	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.

	Stella Bharathy and S. Margret Sheela				
23.	M. Sanjusri , M. Stella Bharathy , J. Rosaline Vimala and A. Agila	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Green synthesis and characterization of silver nanoparticles from <i>Diospyros burifolia</i> , <i>Albizzia amara</i> and assessment of their anti-collagenase and anti-microbial potential.	TNSCST	PG and Research Department of Chemistry, Holy Cross College (Autonomous) Tiruchirappalli-2, 26 th and 27 th November 2024.
24.	Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy, M. Sanjusri and Dr. A. Agila	International conference on “Recent trends in Chemistry” ISBN: 978-93-342-3059-8	Green synthesis of magnesium oxide nanoparticles using tea extract: characterization and evaluation of antioxidant and anti-collagenase activities		Department of Chemistry, Srimad Andavan Arts and Science College, T.V.Koil, Trichy. 24 th January 2025.
25.	Dr. J. Rosaline Vimala, S. Nivetha, A. Devadharshini Amala, Dr. M. Stella Bharathy and Dr. A. Agila	International conference on “Recent trends in Chemistry” ISBN: 978-93-342-3059-8	Green synthesis of copper and zinc oxide nanoparticles using <i>Albizzia Amara</i> : Comparative insights on anti-inflammatory activity		Department of Chemistry, Srimad Andavan Arts and Science College, T.V.Koil, Trichy. 24 th January 2025.

26.	M. Sanjusri, Dr. J. Rosaline Vimala, Dr. M. Stella Bharathy and Dr. A. Agila	International Conference on "Nanotechnology and Materials Sciences	Elucidating the Antioxidant properties of green synthesized Copper and Zinc oxide nanoparticles: A comparative approach using <i>Albizia amara</i> and <i>Mukia maderaspatana</i> .		Department of Chemistry, K.S.R College of Arts and Science for Women, Tiruchengode-637215, Namakkal, 5 th to 7 th 2025
27.	S.Auxilia Ruby and Dr. J. Felicita Florence	International conference on "Frontiers in Material Research: Innovations and challenges towards a greener future", ISBN: 978-93-48615-52-7	1. Bioengineered nano-ZnO as a functional activator in epdm for gamma radiation resistance at 10 KGY exposure.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
28.	C. Silviya Rani, S. Auxilia Ruby and Dr. J. Felicita Florence	International conference on "Frontiers in Material Research: Innovations and challenges towards a greener future", ISBN: 978-93-48615-52-7	Biogenic synthesis of iron oxide nanoparticles using selenicereus undatus peel for antimicrobial applications	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024

29.	K S. Roshni , S. Auxilia Ruby and Dr. J. Felicita Florence	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Sustainable green synthesis of WO ₃ nanoparticles from selenicereus undatus peel extract for effective water remediation through photocatalytic dye degradation.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
30.	Dr. J. Felicita Florence, R. Kavya, K.A. Hallima and H. Asia Thabassoom	International conference on Recent Advances in Chemical and Environmental Research	Enhancing Electroless Ni-W-Zn-P Coatings on mild steel with lawsone		Department of Chemistry, Jamal Mohamed College, Trichy, 18 th December 2024
31.	S. Yuvasri, T.S. Abinaya, S. Chandarprena, S. Margrat Sheela, J. Rosaline Vimala, M. Stella Bharathy and A. Agila	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Synthesis and characterization of Bio-plastic from Manihot Esculenta, Musa sapientum and Zea Mays.L.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
32.	Dr. R. Kanmani, B. Gowthami and M. Boomathi	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Ecofriendly Synthesis of Zinc Oxide Nanoparticles Using Leaves Extract Of Melia Dubia And Carica Papaya	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024

33.	Dr. J. Morris Princey, S.Abinaya and K. Sharmila	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	A study on the development of Bioplastic from Masa Paradiscia & Cucurpita Pepo with glycerol as plasticizer	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
34.	Dr. J. Amala Infant Joice, L. Mary Arul Rosaline, A. and Motcha Rakkini	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Photocatalytic degradation of Brilliant Green using herbal plants extracted titania nanoparticles	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
35.	A. Motcha Rakkini , L. Mary Arul Rosaline and M. Thagsim Fathima, and J. Amala Infant Joice	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Synthesis and applications of sesbania grandiflora leaf extracted titania nanoparticles	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
36.	Dr. A. Tony Elizabeth and J. Jeya chitra	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Anti-diabetic and anti-inflammatory activities of Withania Coagulans extract	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
37.	Dr. P. Christina Ruby Stella, R. Vinoliya Merin and A. Nivetha	International conference on “Frontiers in Material Research:	From Nature to therapeutics: The dual role of Cassia Fistula flowers in	TNSCST	PG and Research Department of Chemistry, Holy Cross

		Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	managing diabetes and aging.		College(Autonomous), Trichy, 26 th & 27 th November 2024
38.	Dr. P. Christina Ruby Stella, A. Nivetha and E. Priya Rose	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Therapeutic potential of Hesperetin loaded nano emulsion against breast cancer cell: Preparation, characterization and cytotoxicity.	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024
39.	Vijayavilas Sathyan Sangeetha ,P.Christina Ruby Stella, Nivetha Arunprakash	International conference on “Frontiers in Material Research: Innovations and challenges towards a greener future”, ISBN: 978-93-48615-52-7	Gas Chromatography – Mass Spectrometry, Infra-Red, UV- Visible and Thin Layer Chromatography Profiling of Catharanthus Roseus Leaves Ethanolic Extract: Revealing Of New Bioactive Compounds	TNSCST	PG and Research Department of Chemistry, Holy Cross College(Autonomous), Trichy, 26 th & 27 th November 2024