

## Faculty Publications

A.Y:2025-2026

Academic Year	International Journal	National Journal	International Conference	National Conference	Books/Chapter
2024-25					
2025-26					

### Publication Data 2024-2025

S.No	Name of the Faculty	Title of the Paper	Name of the Journal/Conference	SCIE/Scopus	Year
1	<b>Krishna Murthy Potla*</b> , Yahya I Asiri, Nannapaneni Usha Rani, Francisco A. P. Osório, Clodoaldo Valverde, Murugesan Raja, Sanja J. Armaković, Stevan Armaković	Investigation of the linear and nonlinear optical properties in the crystalline phase of a pyrimidine derivative—a potential nonlinear optical material: analysis of its structure, reactivity, and docking studies†	RSC advances	SCI Q1	2024
2	<u>Srinivasu Jaddu</u> , <u>Narendra Kolla</u> , <b>Ch. Kavitha</b> , <u>Tadikonda Srinivasa Krishna</u>	Non-linearity parameter b/a and available volume va of binary liquid mixtures: thermo-acoustical approach	Proceedings on Engineering Sciences	SCOPUS Q4	2024
3	<b>Jannatun Zia*</b> , Noushi Zaidi, Sapana Jadoun and Ufana Riaz	Elimination of antibiotic contaminants from wastewater using polycarbazole nanocomposites as microwave-activated catalysts	Nanotechnology	SCI Q2	2025
4	Sapana Jadoun* Sampath Chinnam, Shagufta Jabin, Nirmala Kumari Jangid, <b>Jannatun Zia*</b>	Recovery of Metals from E-waste: Facts, Methods, Challenges, Case Studies, and Sustainable Solutions	Environmental Science & Technology Letters	SCI Q1	2024
5	1st Manoj Kumar S 2nd C.L.Monica 3rd Sunith Babu L 4th V Manikandan 5th Dinesh Subramani 6th Subhash Malik	IoT-Driven Mushroom Farm Automation using Neural Turing Machines (NTM)	2024 4th International Conference on Mobile Networks and Wireless Communications (ICMNWC)	SCOPUS	2025
6	M. Sri Lakshmi, Narasimha Murthy V N, Ramprasad Ch, E. Ramanjaneyulu, Manukonda G.S & Shaik Babu	Investigation of molecular interactions in binary mixtures at various temperatures and correlation with the Jouyban–Acree model (2-methyl-2,4-pentane diol, 2,4-dimethyl aniline, 2,5-dimethyl aniline and 2,6- dimethyl aniline)	Physics & Chemistry of liquids	SCIQ3	2025

7	Jannatun Zia*, Tejaswini, M.S.S.R	Advancements in binary and ternary metal based composites for high performance super capacitors a comprehensive review	Rsc advances	SCI Q1	2025
8	<b>Krishna Murthy Potla</b> , Suneetha Vankayalapati, Francisco A. P. Osório, Clodoaldo Valverd, Raja Murugesan, Zainab M. Almarhoon, Mahboob Alam, Mohammad Shahidul Islam,	Mechanoluminescence and nonlinear optical properties of a self-assembled piperazine-based supramolecular system: structural insights and computational analysis†,	New J. Chem.,	SCI Q2	2025
9	Vidyarani, A.H. Udaya Kumar, Mahesha , N.K. Lokanath, S. Naveen, P. <b>Krishna Murthy</b> , P.A. Suchetan, N-1,3-thiazole-2-ylacetamide:	An efficient novel cocrystal former with carboxylic acids	Journal of Molecular Structure	SCI Q2	2025
10	E. Poongulali <sup>1</sup> · S. Srinivasa Rao <sup>2</sup> · Ramesh Jayaraman <sup>3</sup> · Subramanian Annamalai <sup>4</sup>	Strategic design of mixed-phase nickel sulfide decorated rGO sheets for high-performance dual functionality in DSSC and supercapacitor electrodes	Springer Ionics : impact factor: 2.6	SCI,Q2	2025

## 2025-2026

S.No	Name of the faculty	Title of the publication	Journal name/Conference	SCIE/SCOPUS	Year
1	J. Panduranga Rao, <b>Ch. Kavitha</b> , T. Srinivasa Krishna, M. Gowri Sankar & G. Srinivasa Rao	Temperature-dependent thermodynamic and acoustic analysis of ethyl propionate + primary alcohol mixtures	Physics and Chemistry of Liquids	SCI	2025
2	<b>M.Durga Bhavani</b> , T. S. Krishna, A.Hernandez, A.K.Nain	Thermophysical and spectroscopic study of molecular interactions in 1-butyl-3-methylimidazolium tetrafluoroborate + propyl acetate system at ambient temperatures: Experimental and theoretical approach	Chemical Thermodynamics and Thermal Analysis	SCOPUS	2025
3	1. Meetali Bharti, <b>2. Dr. C. L. Monica</b> 3. J. Thresa Jeniffer, 4. Giri Babu K 5. Dr. Srinivasa K, 6. Yukti Varshney	LSTM and XGBoost Hybrid Model for Forecasting Agricultural Productivity and Economic Viability in Intercropping Systems	Proceedings of 2025 <b>International Conference</b> on Cognitive Robotics and Intelligent Systems (ICC - ROBINS 2025)  IEEE Xplore Part Number: CFP25UD1-ART;	IEEE	2025
4	1.Dr. Sneha Arjun Khaire, <b>2.Dr.C.L.Monica</b> , 3.Anuradha Parasar 4.Dr. RVS Praveen, 5.Ekaterina Kalinskaya, 6.B.Dineshkumar,	Enhancing Automated Assignment Assessment in Higher Education with a CNN–BiLSTM Model	6th <b>International Conference</b> for Emerging Technology (INCET)   ISBN:979-8-3315-3103-4/25©2025 IEEE   Karnataka, India	IEEE	2025
5	<b>1. C. L. Monica</b> 2.Sneha kumari 3.S. Padma Devi 4.Senthil Kumar D 5.Vijay Ramalingam 6.Mathur Nadarajan Kathiravan	Precision Agriculture with Wireless Sensor Networks Using a Hybrid K-Means-DNN Model for Efficient Irrigation	1st <b>International Conference</b> on Radio Frequency Communication and Networks (RFCoN) ISBN: 979-8-3315-1316-0/25©2025 IEEE	IEEE	2025

6	1. Dr. Swapna Kadam, 2. Dr. C.L. Monica, 3. Madhava Katakam 4. Kamlesh Kelwade, 5. Durai Murugan A, 6. Gourav Kalra,	Integrative Approaches in Modern Agriculture: Leveraging IoT and Deep Learning for Plant Disease Forecasting Under Climate Change	8th <b>International Conference</b> on Computing Methodologies and Communication (ICCMC)   IEEE Xplore Part Number: CFP25K25-ART;	IEEE	2025
7	Sk.Fakruddin Babavali, M. Sri Lakshmi, Shaik Saleem, Manukonda G.S. & Shaik Babu	Physicochemical analysis on molecular interactions in binary liquid mixtures at various temperatures and correlation with the Jouyban– Acree model	Physics and Chemistry of Liquids	SCI	2025
8	P. Venkata Jayasree, S. Kalpana, B. Kannamba, A. Venkata Siva Reddy	Eco friendly based product Recommendation system using Machine learning	8th <b>International Conference</b> on Computing Methodologies and Communication (ICCMC-2025)   IEEE Xplore Part Number: CFP25K25-ART;	IEEE	2025
9	1.Dr. Akana Chandra Mouli Venkata Srinivas 2.Dr.C.L.Monica, 3.Dr Uppara Manjulamma 4.Dr. Bhimanand Pandurang Gajbhare 5.Ramkumar Vahalingam, 6.Dr. Gourav Kalra,	Optimizing Smart Irrigation in Agriculture with a Fuzzy Logic and Genetic Algorithm Hybrid Model for Water Resource Management	2025 5th <b>International Conference</b> on Intelligent Technologies (CONIT)	IEEE	2025
10	Krishna Murthy Potla <sup>1,8</sup> , J. N. Cheerlin Mishma <sup>2</sup> , Suneetha Vankayalapati <sup>1</sup> , P. A. Suchetan <sup>3,8</sup> , Riya Sebastian <sup>4</sup> , B. Gayatri <sup>5</sup> , Ahmed Mohamed Tawfeek <sup>6</sup> , Mahboob Alam <sup>7</sup> & Mohammad Shahidul Islam <sup>6</sup>	Comprehensive analysis of florasulam: crystal structure, reactivity, sensitivity, and bioactivity using structural, spectroscopic, and computational approaches	Scientific Reports   (2026) 16:Article number:3416	SCI Q1	2026
11	K.S. Prabhuswamy <sup>a d 1</sup> , Krishna Murthy Potla <sup>b</sup> , S. Naveen <sup>c 1</sup> , P.A. Suchetan	Different outcomes of multicomponent reactions between 4-fluorobenzoic acid and 2-amino-5-nitro/chloro pyridines: Insights through structural, computational and energy framework analysis	Journal of Molecular Structure	SCI Q2	2026
12	Krishna Murthy Potla, Suneetha Vankayalapati , J. N. Cheerlin Mishma , S.	Multifaceted study of a pyrimidine sulfonamide derivative: structure,	Phosphorus, Sulfur, and Silicon and the Related Elements	SCI	2026

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Armaković

reactivity, optoelectronics, and  
bioactivity