

Velammal College of Engineering and Technology, Madurai – 625 009

(Autonomous)

Journal/Conference Publication Details

Department of Chemistry

Academic Year 2024-2025

S. No	Name of the Journal/Conference	Title of the Paper	Name of the Author	SCI/SCOPUS/WoS/Google Scholar	Date of Publication
1	Luminescence	Investigation on the Photodegradation Performance of S-Rich g-C ₃ N ₄ /MnO ₂ Composites for Efficient Removal of Hazardous Dyes From Aqueous Phase	P Varun Prasath, SM Muba Shera, K Suganandam , G Kalaiarasi, S Sudhakar, K Ravichandran, A Kosiha	SCOPUS	10.06.2025
2	Journal of Nuclear Materials	Synthesis of sulfur and bromine co-doped bentonite-chitosan composite hydrogels for selective adsorption of cobalt and strontium radionuclides	B. Cha, S SD Elanchezhian , K. Saravanakumar, G. Jagan, Lewis K. Njaramba, M. Jang, Y. Yoon, C. M. Park	SCOPUS	22.05.2025
3	Journal of Engineering Education Transformations	Promoting Learner Autonomy in Generation-Z Engineering Students: ICT Needs and Perceptions of the Learners	S, Obuliraj, K, Nagarajan, R, Chandran, S, Sundararajan, M. Muralisankar	SCOPUS	12.05.2025
4	Journal of Optics	Polar and non-polar solvents induced nonlinear optical characteristics of natural dye extracted from lawsonia inermis	S Daisylin Anbu Sujitha, S Lavanya , Natarajan Arumugam, Abdulrahman I Almansour, S Jeyaram	SCOPUS	30.04.2025
5	Journal of Industrial and Engineering Chemistry	Utilization of waste PET-derived metal-organic framework grafted polyaniline composite for heavy metal adsorption from aqueous solution	D. Kim, P. Kalimuthu, Sun-Mi Lee, Jinho Jung, S.S.D Elanchezhian	SCOPUS	25.04.2025
6	Separation and Purification Technology	Bimetallic oxide integrated chitosan matrix for adsorption coupled	R. Priyadharshini, S SD Elanchezhian Subbaiah Muthu	SCOPUS	22.04.2025

		reduction of Cr (VI) from aqueous solution	Prabhu, S. Meenakshi		
7	New Journal of Chemistry	Highly sensitive electrochemical detection of monosodium glutamate and nitrite on a binary metal (FeZnO) nanocomposite	R. Mayildurai, S. Mahalakshmi, T. Maruthavanan, K. Karthikeyani Vijayakumari, R. Priya, M. Ramesh, C Sankar	SCOPUS	10.04.2025
8	International Journal of Biological Macromolecules	Synthesis of zirconium-based metal-organic framework/gelatin aerogel for removing phosphate and fluoride from aqueous solutions	H. Kim, B. Cha, Seong-Nam Nam, Y. Yoon, Hye-Jin Hong, S SD Elanchezhian , C. M. Park	SCOPUS	01.03.2025
9	Ceramics International	Shock wave pulsed strategy on green synthesized nickel oxide nanoparticles: Structural, morphological, and electrochemical performance	S. Ashok Kumar, S. S. Rajkumar Inbanathan, R. Babhu Vignesh , D. R. Rosaline, B.R. Kamalam, A. Umar, Ahmed A Ibrahim, S. Akbar, SA Martin Britto Dhas, S. Baskoutas	SCOPUS	01.02.2025
11	Current Research in Nutrition & Food Science	Bioactive Components in Functional Foods, Mechanism of Action and Impacts on Health with a Focus on COVID-19-A Review.	R. Chandran, S.Obuliraj, S.Sundararajan, S. Baskaran, M. Muralisankar	SCOPUS	01.12.2024
12	New Journal of Chemistry	ZnZrO ₂ -adorned graphitic carbon nitride (g-C ₃ N ₄) on a laser-induced graphene electrode as an electrochemical sensor for the detection of ractopamine in meat samples	R Ganapathi Raman, M Muhammed Shameem, P Kavitha, C Sankar , SR Kalaivani	SCOPUS	14.10.2024
13	Journal of the Iranian Chemical Society	Synthesis, characterization and anti-microbiological evaluation of 2-[(2, 6-diaryl piperidin-4-yl) hydrazono]-2, 3-dihydrothiazoles as a new	N Sarathi, SL Ashok Kumar, C Sankar	SCOPUS	09.09.2024

		class of antimicrobial agents			
14	Journal of Molecular Liquids	Development of a surfactant-assisted lanthanum anchored hydroxyapatite@ polyaniline hybrid composite for the elimination of chromium ions from aqueous solution	R Priyadharshini, S SD Elanchezhian, K Ramkumar, S Meenakshi	SCOPUS	01.09.2024

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1	Journal of Materials Science: Materials in Electronics	Investigations on Mo dye-doped PPLT single crystals for possible non-linear optical applications	K Savitha, K Saravanan, K Suganandam	SCOPUS	06.04.2024
2	International Journal of Biological Macromolecules	Synthesis of silver-bismuth oxide encapsulated hydrazone functionalized chitosan (AgBi ₂ O ₃ /FCS) nanocomposite for electrochemical sensing of glucose, H ₂ O ₂ and <i>Escherichia coli</i> O157:H7	M Ramesh, S Umamatheswari, PM Vivek, C Sankar , R Jayavel	SCOPUS	01.04.2024
3	Journal of Environmental Chemical Engineering	Efficient interfacial charge transfer of hierarchical crinkled (2D/2D) Ti ₃ C ₂ Tx MXene assembled on perforated GO heterojunction for enhanced degradation of organic dye	S. Vigneshwaran, P. Sirajudheen, R. Babhu Vignesh , Do-Gun Kim, Seok-Oh Ko	SCOPUS	01.04.2024
4	Journal of Chemical Health Risks	Orange Peel as a Green Adsorbent for Wastewater Treatment	Jeevalatha Rugmangathan, Rajabhuvaneswari Ariyamuthu, Dhanam. N, Lavanya S	SCOPUS	06.03.2024
5	Chemistry Select	Design, Synthesis, and Anticancer Activity of N-1 Terminal Segment of α -(2, 5, 7-Tri-tert-butylindol-3-yl) alanine-Incorporated Short	R.Krishnamoorthy, M.Singh, P.Anaikutti, M. C. Pavar, E. Selvaraj, S. Rajagopal,	SCOPUS	05.03.2024

		Peptides	R.Babhu Vignesh		
6	ACS Applied Nano Materials	Sonochemical Synthesis of Ag-Functionalized Fe ₂ O ₃ Nanocomposites for the Highly Sensitive Electrochemical Detection of Ractopamine and H ₂ O ₂	M Ramesh, S Umamatheswari, C Sankar , R Jayavel	SCOPUS	22.01.2024
7	Carbon-Based Nanomaterials in Biosystems	Toxicological analysis of carbon-based nanomaterials in food industry applications	M Muralisankar , S. Soundeswaran, P. Bothi Raja, O. Senthilkumar	SCOPUS	11.01.2024
8	New Journal of Chemistry	Zn@ ZrO ₂ nanoparticles decorated on naringin-based sensor for electrochemical detection of p-nitrophenol and o-nitrophenol	M. Ramesh S. Umamatheswari C. Sankar R. Jayavel	SCOPUS	10.01.2024
9	Journal of Chemical Health Risks	An eco-friendly method for preventing corrosion in low-carbon steel using an extract from Guazma tomentosa leaves	Jeevalatha Rugmangathan, Rajabhuvaneswai Ariyamuthu, Lavanya S	SCOPUS	06.12.2023
10	European Chemical Bulletin	An integration of IOT and sensor model for measuring oxygen content and purity in water	Madhusudana T Ranjit Kumar Puse, S.T.Deepa, M.Arun, R.Arun Chakravarthy K. Suganandam	SCOPUS	05.12.2023
11	Materials Today: Proceedings	Thermo-hydraulic performance of nanofluids composed of functionalized MWCNT	G.Srinivasa Rao, V Subha, S Jagan Raj, Syed Farrukh Rasheed, M Rashmi, K Suganandam	SCOPUS	23.08.2023

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1	European Chemical Bulletin	Application of support vector machines for the chemical phosphorus removal process in wastewater treatment plants	B. Satyannarayana M.S.N.A. Prasad, N.Srividhya , Praveen Bhai Patel, K. Suganandam , Amit Mittal	SCOPUS	22.06.2023

2	European Chemical Bulletin	Protein folding and misfolding: Insights from biochemical studies	M.Krishnaveni J. E. Sangeetha, S. Lavanya , M .Malinidevi	SCOPUS	09.06.2023
3	Materials Today Communications	Viologen appended Schiff base polymer and its symmetrical supercapacitor device performance	C. Saravanan, P. Muthuraja, M. Kanagaraj, M.Kathiresan, K. S. Velu, P. B. Bhargav, Kiruthiga K , P. Mareeswaran	SCOPUS	01.06.2023
4	Journal of Drug Delivery & Therapeutics	ADMET-Evaluation, Pharmacokinetics, Drug-likeness and Medicinal Chemistry of GCMS Identified Bioactive Compounds of Moringa oleifera Natural-RipenedDried Methanolic Pod Extract (MOMPE) as a Potential Source of Natural Drug Frontrunner for Next Generation Drug Design, Development and Therapeutics.	C. Kandeepan, K. Suganandam , A. Jeevalatha, N. Kavitha, N. Senthilkumar, S.Sutha, Seyed, Mohamed Ali, Gandhi, Sanyam, S. Ramya, Pushpalatha G. Grace Lydial, G. C. Abraham, J.King Immanuel, R. Jayakumararaj	SCOPUS	01.11.2022
5	Journal of Drug Delivery & Therapeutics	Profile of Phytochemicals and GCMS Analysis of Bioactive Compounds in Natural Dried-Seed Removed Ripened Pods Methanolic Extracts of Moringa oleifera.	K. Suganandam , A. Jeevalatha, C, Kandeepan, N. Kavitha, N. Senthilkumar, S. Sutha, Seyed, Mohamed Ali, Gandhi, Sanyam, S. Ramya, G. Grace Lydial Pushpalatha, G. C. Abraham, R. Jayakumararaj	SCOPUS	02.09.2022

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