



# KONGUNADUCOLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL-TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF SCIENCE AND HUMANITIES

## FACULTY PUBLICATIONS-International / National Journals

S. No.	DETAILS
<b>ACADEMIC YEAR 2024-2025</b>	
1	Pugalenthi Rames, <b>B. Subashini</b> , Sandhanasamy Devanesan, P. Narayanan, M. Santhamoorthy, Prabhakaran Arunachalam, "Fabrication of cyclen-iodine decorated 2D nanosheets of GO: Multi-functional platforms for sensitive fluorescent detection of $Pb^{2+}$ ions", Diamond & Related Materials, DOI:10.1016/j.diamond.2025.112080, January 2025. (SCI)
2	Jemina, N. Mani, Pugalenthi Ramesh, <b>N. Sudha</b> , "Brominated graphene oxide: A novel synthesis approach for enhanced performance in energy storage applications", Diamond & Related Materials, DOI:10.1016/j.diamond.2025.112135, January 2025. (SCI)
3	Thangathamizh R, Charles Sagayaraj, Shanmugavel P, Arulkumar R, <b>Baalasubramaniyan K T</b> , "Some Compatible and Weakly-Compatible Four Self-Mapping Approach to Nonlinear Integral Equations in Revised Fuzzy Cone Metric Spaces", Advances in Nonlinear Variational Inequalities, Vol 28 No. 6s (2025). (Scopus)
4	Venkatesh R, De Poures M.V., <b>Thangamani P</b> , Manivannan S, "Influences of Zinc Oxide Doping on Functional Characteristics Study of Thin Film Solar Cell for Hybrid Solar Electric Vehicle Utilization", SAE Technical Paper 2024-01-5256, DOI:10.4271/2024-01-5256, 2025. (Scopus)
5	<b>P. Thangamani</b> , C. Thangapandi, "A Novel Ranking Technique to Resolve Unbalanced Fuzzy Transportation Problems Using Trapezoidal Fuzzy Numbers", Panamerican Mathematical Journal, Volume 35 No.4s, 2025.
6	S. Kiruthika, J. Uma, B. Balraj, <b>T. Jeeva</b> , "Green sonochemical synthesis of tin(IV) oxide modified multi-walled carbon nanotubes for enhanced nitrogen dioxide sensing", Chemical Papers, DOI:10.1007/s11696-025-04048-x, 2025. (SCI)
7	Arumugam Senthil Murugan, Thangaraj S.T. Balamurugan, Jamespandi Annaraj, <b>Sellamuthu Kathiresan</b> , "Instant detection of environmental pollutants ( $Hg^{2+}/Cu^{2+}$ ) in water and food samples using pyrene-based chemosensor, and its bioimaging applications", Journal of Molecular Liquids, DOI:10.1016/j.molliq.2024.126785, January 2025. (SCI)
8	P.K. Abhilash, P. Jegajeevanram, P. Prabu, M. Abdurrahman, <b>A. Antony Prabhu</b> , K. Reyazalisahib, Chandramohan Govindasamy, Muhammad Ibrar Khan, Kokkarachedu Varaprasadi, Palanisamy Arulselvan, "Multifunctional cerium oxide-copper oxide nanocomposites prepared via one-pot engineering precipitation: Antimicrobial, antioxidant and anticancer activities", Journal of the Indian Chemical Society, DOI:10.1016/j.jics.2024.101525, February 2025. (SCI)
9	Saravanan Ramasamy, R. Senthilkumar, R. Dharmaraj, <b>M. Kannan</b> , "Fluoride removal from contaminated water using natural bio-adsorbents: A numerical and experimental investigation", Desalination and Water Treatment, 321 (2025) 100984. (SCI)
10	K. Rekha, <b>M. Dhanapal</b> , "Structures on Nano-Topologies Via Graphs in the Human Double Circulation System", Communications on Applied Nonlinear Analysis, Volume 32(6s), 2025. (Scopus)
	David Jereil S, <b>Shankar S M</b> , Sudhakar K, Ganeshkumar Arumugam, Padmanabhan Annamalai, Radhalayam Dhanalakshmi, Sreekanth T.V.M, Abdullah Alarifi, "Effect of Cu-ZnO nanoparticles on the photocatalytic degradation of reactive red 120", Surface Interfaces, Elsevier, DOI:10.1016/j.surfin.2024.105579, December 2024. (SCI)
12	K. Vanasundari, <b>A. Viji</b> , <b>P. Sivaprakash</b> , Hyun-Seok Kim, Ikhyun Kim, "Investigation of photocatalytic and corrosion resistance properties of Zr-Ag doped SnO <sub>2</sub> nanoparticles: The impact of calcination temperature", Journal of Molecular Liquids, DOI:10.1016/j.molliq.2024.126502, December 2024. (SCI)

13	<b>P. Thangamani</b> , C. Thangapandi, “Pentagonal fuzzy numbers: A newly proposed technique to resolve fuzzy transportation problem”, AIP Conference Proceedings, 3193, 020283 (2024). (Scopus)
14	A. Suheal, M. S. Jagatheeshwaran, “Erosion-Corrosion Resistance: Collaborative Ni–P Electroless Deposition on Poly-Amino-Alcohol@Functionalized GO Matrices”, Journal of Chemistry Europe, October 2024. (SCI)
15	Rangarajan Nagalakshmi, Vadivel Balachandran Alharethy, Ramadurai Murugan Sivasubramani, “Quantum chemical calculations and molecular docking studies of 5-amino-3-(2,5-dimethoxyphenyl)-1-isonicotinoyl-2,3-dihydro-1H-pyrazole-4-carbonitrile”, Zeitschrift für Physikalische Chemie, DOI:10.1515/zpch-2024-0750, October 2024. (SCI)