

DAY 1 - 03.02.2025 ORAL SESSION - I

PARALLEL SESSION (1.30 PM to 3.00 PM) Venue: Main Auditorium

Session Chair: Dr. A. Muthukrishnaraj, Amrita Vishwa Vidyapeetham, Coimbatore and Dr. A.M.Shanmugaraj, SSNCE, Chennai.

S. No.	Authors	Title	Affiliation	Paper ID
1	Akshay V, Vijayalakshmi S, Sumathi Subramanian, Sasikala Ganapathy	Synthesis of high efficient ternary nanocomposites for photocatalysis in energy and environmental remediation	Crystal Growth Centre, Anna University, Chennai	OP1
2	K. Sakthipandi, B. Sethuraman, K. Venkatesan, G. Purushothaman	Electromagnetic Shielding Efficiency in Neodymium-Doped doped Cu-Ni-Zn spinel ferrites	Department of Physics, SRM TRP Engineering College, Tiruchirappalli	OP2
3	Deevakar Loganathan, P N Deepa	One pot hydrothermal synthesised BDC templated CeNiO ₃ for High efficiency Asymmetric supercapacitor electrode.	Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai- 600025	OP3
4	Vijaya Lakshmi Sarveswaran, Sasikala Ganapathy, Akshay Vickraman, Sumathi Subramanian	Synthesis of binary transition metal oxide V ₂ O ₅ /NiO nanocomposite as electrode material for Supercapacitor application	Crystal Growth centre, Anna University, Chennai – 600025	OP4
5	Jithin Kuriakose, P. Karuppasamy	Growth of 2-Methoxy Benzoic Acid NLO Single Crystals using Vertical Bridgman Technique	Department of Physics, SSN Research Center, Sri Sivasubramaniya Nadar College of Engineering, Chennai 603110	OP5
6	K.Vijayalakshmi, A. L.Kavitha	A NOVEL APPROACH TO POLYVINYL ALCOHOL FUNCTIONALIZED BIOGENIC SYNTHESIS OF Fe ₃ O ₄ NANOPARTICLES FOR P ^H RESPONSIVE DELIVERY OF CURCUMIN FOR CANCER THERAPY	Assistant Professor, Department of Chemistry, Sree Sevugan Annamalai College, Affiliated to Alagappa University, Devakottai - 630 303.	OP6
7	Ramalakshmi K, Sasmita Dash, Srilali Siragam	ZnAl ₂ O ₄ based nanomaterial for Sensing Application	Department of ECE, GIET University, Gunupur, Odisha, India	OP7
8	Krishna Koushik, S Mullai Venthan, Pooja Gowda	Radiation Sensing Application for Groundwater Analysis: A Data-Driven Approach Krishna Koushik1, S Mullai Venthan2*, Pooja Gowda1	Amrita Vishwa Vidyapeetham, Bengaluru, India.	OP8
9	R. Kalaiselvan, M. Infant Shyam Kumar	Investigation of structural, geometrical and electronic properties of XBi ₂ O ₅ (X= Ti, Ge, Mg) by first principles calculations	1Department of Physics, SRM Institute of Science and Technology, Tiruchirappalli 621105, Tamil Nadu, India.	OP9
10	Sareen Khan, Arkadeep Das, Vidhya Rajagopal	Anticancer activity of Phyto-fabricated Copper nanoparticle using Cestrum aurantiacum aqueous extract against colon cancer	Department of Biotechnology, Faculty of Science and Humanities, SRM Institute of Science and Technology, Ramapuram, Chennai 600089, Tamil Nadu, India	OP10

PARALLEL SESSION (1.30 PM to 3.00 PM) Venue: Central Seminar Hall (ECE Annexure)

Session Chair: Dr. K. Jayamoorthy, St Joseph's College of Engineering, Chennai and A. Chandrasekar, SSNCE, Chennai.

11	Shreya Vivek, Nithya, Yamini Thoti, KAVYA JAVVAJI	Biodegradable Polymers for Food Packaging: PLA Film Technology as a Green Solution for Banana Packaging	SRM Institute of Science and Technology, Kattankulathur	OP11
12	J. Irshad Ahamed, S.I. Davis Presley	Synthesis, spectral characterization, DFT-Computational analyses on Novel 2,4-dichlorobenzoic acid P-dimethylaminobenzaldehyde (DBADAB) single crystal study	a Department of Chemistry, Theivanai Ammal College for Women (Autonomous), Villupuram 605401, Tamil Nadu, India b Department of Chemistry, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam 603110, Tamilnadu, India	OP12
13	Balaji Venkatesh , Dr.B.Manimekalai	PERFORMANCE AND MECHANISM OF LEAD REMOVAL USING SLUDGE BASED BIOCHAR LOADED WITH ZEROVALENT IRON	1 Centre for Environmental Studies, Anna University, Chennai-600025, Tamilnadu, India. 2 Centre for Environmental Studies, Anna University, Chennai-600025, Tamilnadu, India.	OP13
14	Yazhini Priya S, Nagapandiselvi P	Facile synthesis of Fe-UiO-66 MOF for efficient photodegradation of antibiotics under visible light.	Department of Physics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai, 603110, Tamil Nadu, India	OP14
15	Manjunath, S Mullai Venthan, Pooja Gowda	Waste Water Segregation using Nanomaterials and Machine Learning Classification Models	Amrita Vishwa Vidyapeetham, Bengaluru, India.	OP15
16	Klinton Brito K, M Srinivasan	Cobalt-based ternary Semiconductors for Energy Recycling Applications	Department of Physics, SSN Research Centre, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam	OP16
17	M. Jeevadharania E. Gunashreeb M. Surendirana	Eco-Friendly Nanocomposites from Biowaste: Metal-Doped Hydroxyapatite and Polymer-Based Coatings for Biomedical Applications	aDepartment of Chemistry, School of Arts and Science, Vinayaka Mission's Chennai Campus, Vinayaka Mission's Research Foundation, Paiyanoor, Chennai- 603 104.	OP17
18	Roselin Pavithra A, Ramesh P , S.I. Davis Presley, M. Srinivasan	Conformational Energy Profiling of Clopidogrel Bisulfate in the Gas Phase Using DFT Calculations	Department of Chemistry, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu	OP18
19	E Murugan* & Vinitha Annachi	Synthesis of spongy spherical NiB/B-rGO nanocomposite using hydrothermal method for high-performance supercapacitors	Department of Physical Chemistry, School of Chemical Science, University of Madras, Guindy campus, Chennai, Tamil Nadu, India- 600025	OP19
20	Sathiya B, Nagapandiselvi P	Facile Synthesis of NiCo2S4 for Visible Light Driven Organic Pollutant Degradation.	Department of Physics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam- 603110.	OP20
21	E Murugan* & Kaviya Nissi D	Microwave assisted synthesis of PTHOB decorated with gC3N4 and rGO for Supercapacitor Application	University of Madras, Guindy Campus, Chennai, Tamil Nadu, India – 600 025.	OP21
22	E Murugan* and M Deepan	Solvothermal Synthesis of CoS/rGO nanocomposite for supercapacitor application	Department of Physical Chemistry, School of Chemical Science, University of Madras, Guindy campus, Chennai, Tamil Nadu, India- 600025.	OP22

DAY 1 - 03.02.2025 ORAL SESSION - II				
4.15 PM to 5.30 PM, Venue: Main Auditorium				
Session Chair: Dr. S. S. Kalaivani, Amrita Vishwa Vidyapeetham, Coimbatore and Dr. A. Murugesan, SSNCE, Chennai				
23	Narayana LVS, Ribhu Abhusan Panda, Srilali Siragam	ZnAl ₂ O ₄ Nanoparticles via Sol-Gel Synthesis: A Gateway to Wireless Applications	Department of ECE, Gandhi Institute of Engineering & Technology University, Gunupur, Odisha, Department of ECE, Swarnandhra College of Engineering & Technology, Narasapur, A.P 3 .	OP23
24	A Ajisha, A Murugesan & M Srinivasan	A COMPUTATIONAL INVESTIGATION OF STRUCTURAL, MECHANICAL, ELECTRONIC, THERMOELECTRIC AND OPTICAL PROPERTIES OF TiPdZ (Z=Al,Ga AND In) HALF-HEUSLER ALLOYS	Department of Chemistry, SSN College of Engineering, Kalavakkam – 603 110, Tamil Nadu, India	OP24
25	Krishna Koushik, S Mullai Venthan, Pooja Gowda	Radiation Sensing Application for Groundwater Analysis: A Data-Driven Approach Krishna Koushik1, S Mullai Venthan2*, Pooja Gowda1	Amrita Vishwa Vidyapeetham, Bengaluru, India.	OP25
26	M Sathiyamoorthy, Nafis Ahmed	Affordable Optimizing Anode Materials infused Recycled Silicon for Highly Stable Lithium-Ion Batteries	a Department of Physics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Tamilnadu 603110, India	OP26
27	M. Loganathan, A. Murugesan	Chemical Depolymerization of Waste Polyethylene Terephthalate into Value-added Products	Polymer Science and Engineering Lab, Department of Chemistry, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam -603 110.	OP27
28	C. Siva, T. Prakash	X-ray Photoelectron spectroscopy of Sb ₂ O ₃ and Fe ₂ O ₃	Nanooptoelectronics lab, National Centre for Nanoscience and Nanotechnology, (NCNSNT), University of Madras, Chennai - 600025, Tamil Nadu, India	OP28
29	Sibisudhan S	Synthesis and Stabilization of Fe ₃ O ₄ Nanoparticles and Evaluate their compatibility and Biosensor Applications		OP29
30	Prammitha Rajaram , M. Srinivasan	Synthesis of Cd(OH) ₂ -CdO Nanoparticles Using Veldt Grape Leaf Extract: Enhanced Dye Degradation and Microbial Resistance	Department of Physics, SSN Research Centre, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam	OP30
31	S Ritika1, S Mullai Venthan, Pooja Gowda	Transfer Learning-Driven Prediction of Dielectric Properties in PVDF-rGO Composites for Advanced Material Applications S Ritika1, S Mullai Venthan2*, Pooja Gowda3		OP31
32	Manickam Rajkumar, S.I. Davis Presley	Magnetic nanoparticles of Fe ₃ O ₄ biosynthesis using Anacardium occidentale fruit extract: Evaluation of in vitro antioxidant, antibacterial, antidiabetic, anti-cholinergic and cytotoxic activities	Department of Chemistry, Sri Sivasubramaniya Nadar College of Engineering, Chennai-603 110, Tamilnadu, India	OP32

DAY 2 - 04.02.2025 ORAL SESSION - III

10.45 AM to 11.35 AM, Venue: Central Seminar Hall

Session Chair: Dr. P.Panneerselvam SRM, Kattankulathur, Chennai and Dr. Davis Presley, SSNCE, Chennai

33	M. Dhanush , Dr. T. Prakash	Effect of Composition on UV Filtering Nature of PVA-Bi ₂ O ₃ Nanocomposite Films	Nanooptoelectronics lab, National Centre for Nanoscience and Nanotechnology (NCNSNT), University of Madras, Chennai 600025, Tamil Nadu, India	OP33
34	S. Ayesha Barsana, M.J. Umapathy	Poly(vinyl)pyrrolidone - an additive for zinc phosphate coating	Department of Chemistry, CEG Campus, Anna University, Chennai.	OP34
35	Sanchali Bose, Dr. P. Senthil Kumar, Dr. B. Chitra, S. Karthikeyan, J. Maadhes, P. Balan	Study on the extent of degradation of Chlorpyrifos pesticide using biosurfactant-producing bacterial strains isolated from agricultural soil	Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, 603110, Tamil Nadu, India Centre for Pollution Control and Environmental Engineering, School of Engineering and Technology, Pondicherry University, Kalapet, Puducherry 605014, India	OP35
36	Jesintha. V , M. Mahalakshmi	Hybrid Nanocomposite as a Photocatalyst for Enhanced Hydrogen Production under Direct Solar Light Radiation	Department of Chemistry, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai 603110, India	OP36
37	Jeny Rachel Biju, Jacklien Emema Rose T.J, Jason Thamizhakaran Stanley, Amudha Thanaras, Sathya Selva Bala Vasantha Kumar, Baskaralingam Palanichamy, Sivanesan Subramanian	Enhanced photocatalytic degradation using Sulfur-doped TiO ₂ /g-C ₃ N ₄ composite	Department of Chemistry, College of Engineering Guindy, Anna University, Chennai-600025, Tamil Nadu, India.	OP37
38	Robert Dominic Reegan Rajarethinam, Nagapandiselvi perumal, jeffry joseph, Muthu Senthil pandian and Ramasamy	Monoclinic BiVO ₄ Nanosphere for High Performance Supercapacitor	Department of Physics, SSN Research Centre, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam-603110, Tamilnadu	OP38
39	Shabeer Ahamed Nizamudeena, Jason Thamizhakaran Stanley, Amudha Thanarasu, Shanmuga Sundar Saravanabhavan, Sathya Selva Bala Vasanthakumar, Jacklien Emema Rose T.J., Jeny Rachel Biju, Baskaralingam Palanichamy, Sivanesan Subramanian	The Evolution of 2D Core@Shell Nanoarchitecture for Supercapacitor Application	Department of Chemistry, College of Engineering Guindy, Anna University, Chennai-600025, Tamilnadu, India	OP39

DAY 2 - 04.02.2025 ORAL SESSION - IV				
1.30 PM to 2.30 PM, Venue: Central Seminar Hall				
Session Chair: Dr. V. Vinoth Kumar, SRM, Kattankulathur, Chennai and Dr. M. Mahalakshmi, SSNCE, Chennai.				
40	B.Manimekalai , Sivanesan Subramanian	GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLE USING AZADIRACHTA INDICA EXTRACT FOR REMOVAL OF POLLUTANTS FROM DIARY EFFLUENT	1 Centre for Environmental Studies, Anna University, Chennai-600025, Tamilnadu, India. 2 Environmental Management Laboratory, AC Tech, Anna University, Chennai-600025, Tamilnadu, India	OP40
41	Jothika B, Govindaraj R	Enhancing the Performance of Hybrid Perovskite Solar Cells through Additive Engineering	SSN Research Centre, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603110	OP41
42	P. Shyamalavathy, M.J.Umapathy	STUDY ON .CORROSION RESISTANCE OF MILDSTEEL BY GRAPHENE OXIDE AIDED ZINC PHOSPHATE CONVERSION COATING	Department of Chemistry, CEG Anna University, Chennai-6000 025	OP42
43	M. Parameswaria, K. Jayamoorthy	Photoinduced Electron-transfer from substituted benzimidazole to various nano metal oxides	aCentre for Research, Anna University, Chennai 600025, Tamil Nadu, India. bDepartment of Chemistry, Sri Chandrasekharendra Saraswathi ViswaMahavidyalaya (Deemed to beUniversity), Kanchipuram – 631561, Tamilnadu, India. c Department of Chemistry, St.Joseph's College of Engineering, Chennai 600119, Tamilnadu, India	OP43
44	J.Sathiya Savithri	PHYTOCHEMICAL SCREENING OF SPONGE GOURD AND THEIR ANTIOXIDANT, ANTIBACTERIAL ACTIVITY	PG & Research Department of Chemistry, Theivanai Ammal College For Women (A)Villupuram, Tamilnadu, 605401-India.	OP44
45	B.Manimekalai, M.Dharshini	REMOVAL OF CHROMIUM FROM TANNERY EFFLUENT USING AGED REFUSE AS ADSORBENT	Centre for Environmental Studies, Anna University, Chennai-600025, Tamilnadu, India.	OP45
46	Abirami. AP, Hevan Gladys. A, Ragavendhini .M and Kalaivani. P	SYNTHESIS AND SPECTRAL CHARACTERIZATION OF NAPHTHALEN-2-YL-N'-(2-HYDROXYBENZOYL)BENZOHYDRAZONE COBALT(III) COMPLEX	Department of Chemistry, Nirmala College for Women, Bharathiar University, Coimbatore-18	OP46