

NCE-21 Oral Presentation

SI. No.	Name	Affiliation	OP Number	Abstract Title
1.	Surabattula Yasodhar	ARCI - CFCT, IITM research park, chennai	OP-01	A Three-dimensional CFD simulation of PEMFC with the modified-parallel flow field design
2.	Ramesha R N	CECRI Chennai Unit	OP-02	Tuning of NMC content in $0.4(\text{LiNi}_x\text{Mn}_y\text{Co}_z\text{O}_2) - 0.4(\text{Li}_2\text{MnO}_3)$ towards high capacity lithium-rich cathode material
3.	Manikanta Kumar	IITKGP, Kharagpur	OP-03	A New Solid-State Approach for the Synthesis of Mesoporous Nitrogen-Doped Carbon - Embedded Cobalt Phosphide (NC-CoP) Nanostructure for Rechargeable Zn-air battery
4.	Mohamed Ismail M	Center for Nanoscience and Technology, Anna University	OP-04	Development of binder free NiCo_2S_4 electrode coating on Ni foam for asymmetric supercapacitor application
5.	Rupayan Ghosh	SRM Institute of Science and Technology, Kattankulathur	OP-05	Hydrogen Evolution Reaction Switch Over: A reason for high voltage efficiency in aqueous $\text{CuSO}_4/[\text{Fe}(\text{CN})_6]^{3-}$ redox flow battery
6.	Sreedhar Doraswamy	Amararaja Batteries Limited,	OP-06	Recital Characteristics of Functionalized Silica as PAM additive for Lead-Acid energy storage

7.	Saravanamoorthy S Dr	Bharathidasan University, Tiruchirappalli	OP-07	Facile Synthesis of Nickel/Graphene Oxide Nanocomposites for high Performance Supercapacitor Applications
8.	Janraj Naik R	Indian Institute of Technology Madras, Chennai	OP-08	Exploring the carbon-electrolyte couple for high voltage aqueous supercapacitor
9.	Jyotisman Rath	Institute of Chemical Technology Mumbai, Indian Oil Odisha Campus, Bhubaneswar	OP-09	Developing Aluminium-Air Cells based on Self-Designed Porous Cathodes as an Affordable Electrochemical Power Source
10.	Keerthana S	Bharathiar University, Coimbatore	OP-10	MoS ₂ Nanoflowers Encapsulated Carbon Nanofibre for High Performance Energy Storage Application
11.	Thamarai Selvi G Mrs	CSIR CECRI, Karaikudi	OP-11	Discharge Profile and Its Correlation with Estimated Parametric Sensitivity and Electrical Contact Resistance Losses in Li-ion Battery
12.	Sheenu	Karpagam Academy of Higher Education, Coimbatore	OP-12	Internal Resistance of Lithium Batteries at Various State of Charge- Can We Predict Life of a Battery using Internal Resistance
13.	Radhika R Nair	CNR laboratory, Loyola College	OP-13	Zinc Ferrite – Reduced Graphene Oxide nanocomposite as an electrode material for Supercapacitor Applications
14.	Suresh babu G N	CSIR CECRI, Karaikudi	OP-14	MnCr ₂ O ₄ / Graphene composite : a novel anode material for high capacity lithium battery applications

15.	Anantharaj G Mr	CSIR CECRI, Karaikudi	OP-15	High Efficiency Dye-sensitized Solar Cells with VOC-JSC Trade off Eradication by Interfacial Engineering of Photoanode electrolyte Interface
16.	Asis Sethi	CECRI Chennai Unit	OP-16	Structurally Different Prussian Blue Cathode Electrode for the Reverse Dual-ion Battery Application
17.	Rebekah A	Bharathiar University, Coimbatore	OP-17	Ni-substituted MnCo ₂ O ₄ anchored on Reduced Graphene Oxide as an electrocatalyst for oxygen evolution reaction (OER)
18.	Pavithra K Ms	CSIR CECRI, Karaikudi	OP-18	Role of oxygen vacancy on catalytic activity of SnO ₂ -MWCNT towards electrochemical reduction of CO ₂ to formate
19.	Yashwant Pratap Kharwar	IIT Madras, Chennai	OP-19	In-situ preparation of copper complex with 4, 4' bipyridine on carbon supports for the efficient reduction of oxygen
20.	Karthick K	CSIR CECRI, Karaikudi	OP-20	Nickel Iron Hydroxy Carbonate Hydrate Nanosheets: An advanced Electrocatalyst for OER under Alkaline and Near-Neutral Conditions
21.	Saikrithika S	Vellore Institute of Technology, Vellore	OP-21	Scanning Electrochemical Microscopic Imaging of Electrochemically Polymerized 4-Chloroaniline and its Application as a pH sensor
22.	Catherine Swetha A	University of Madras, Chennai	OP-22	Nanocomposites of Gold Cluster-Ni/NiO Particles Supported on N-doped Carbon Matrix as Catalysts for Direct Methanol Electrooxidation

23.	Balamurgan T Mr	CSIR CECRI, Karaikudi	OP-23	Synthesis of Hollow Spheres Iron Oxide Using Carbon as a Template and Their Application for Dual Mode Detection of Cholesterol
24.	Biraj Kanta Satpathy	IIT Kharagpur	OP-24	α and β -Co(OH) ₂ nanostructures for Oxygen Evolution Reaction
25.	Sanjeev Kumar K Mr	CSIR CECRI, Karaikudi	OP-25	Poly(neutral red) as a facile platform for detection of putrescine and cadaverine
26.	Hemalatha K V Dr	Coimbatore Institute of Technology, Coimbatore	OP-26	Nickel Nanoparticles Embedded Copper Oxide as Core-Shell for Non-enzymatic Electrochemical Sensor
27.	Swathy S	CUSAT	OP-27	Poly methionine / Graphene oxide modified glassy carbon electrode for the simultaneous determination of 5-hydroxyindole acetic acid and Tyrosine
28.	Sowbakkiyavathi. E.S @ Sowmiya	Kanchi Mamunivar Center for Post Graduate Studies Lawspet	OP-28	Nickel selenide decorated polyaniline nanofibers as a counter electrode for high-performance DSSC
29.	Santhosh K	SRM Institute of Science and Technology, Kattankulathur	OP-29	Synthesis, Photo-physical and Electrochemical Studies of D-p-A Chromophores for DSSCs Application
30.	Srimurugan V	Centre for Green Energy Technology Pondicherry University	OP-30	Controlling the CdS nanoparticle size to enhance the photo-current density of CdS-TiO ₂ NTs/NPs composite for photo-electrochemical cell

31.	Rebeca Sofiya Joice	Madras Christian College, University of Madras	OP-31	Designing WO ₃ -TiO ₂ nanocomposites towards visible light driven Photodegradation of Methylene Blue
32.	Kamlesh Kumar Shrivastava Dr	Pt. Ravishankar Shukla University, Raipur	OP-32	Low cost paper electrode with silver nanoparticles ink for electrochemical applications
33.	Abhaya Kumar Mishra	Indian Institute of Technology, Kharagpur	OP-33	Microwave-Assisted Solvothermal Synthesis of Cobalt doped Cupric Oxide for Water-Oxidation Reaction
34.	Ram Mohan Rao K Dr	GITAM (Deemed to be University), Andhra Pradesh	OP-34	Corrosion resistance of steel after plasma nitriding
35.	Samuel Justin S J	Madras Christian College	OP-35	Fluorapatite/poly(γ -glycidoxypropyltrimethoxysilane) nanocomposite coating towards corrosion mitigation of AA2014 in acidic medium
36.	Vitalis I Chukwuike	CSIR CECRI, Karaikudi	OP-36	Laser shock peening (LSP): Electrochemical and hydrodynamic investigation of corrosion protection pretreatment on a Copper surface in 3.5% NaCl medium
37.	Rama Prakash M Mr	CSIR CECRI, Karaikudi	OP-37	Corrosion behaviours of electrodeposited Ni-W alloy and Ni-W-Al ₂ O ₃ composite coatings – A comparative study
38.	Jayashree Mohanty Dr	C.V. Raman College of Engineering, Bhubaneswar	OP-38	An efficient production of titanium through electrochemical reduction of pre-treated TiO ₂ in a molten salt bath

39.	Susai Rajendran Prof	St Antony's College of Arts and Sciences for Women, Thamarai pady, Dindigul	OP-39	Green Electrochemical synthesis of Prussian blue from waste mild steel – A wealth from waste
40.	Kaavya M	Anna University, Chennai	OP-40	Electrochemical Treatment of Dye wastewater Using Nickel Foam Electrode

