

Oral ID	Authors	Abstract Title
IMESD18-01	<u>Manoj K. Jangid</u> , Farjana J. Sonia, Reetuka Lakra, Velaga Srihari, Himanshu K. Poswal, M. Aslam, Prita Pant, Amartya Mukhopadhyay	In-situ investigations concerning 'stress mitigation' during lithiation/delithiation of Si electrodes in the presence of 'buffer interlayers
IMESD18-02	<u>Rémi Andre</u> , Rahul Gupta	The Input of Thermal Analysis and Calorimetric to the Thermal Safety of Energy Storage Devices
IMESD18-03	<u>Balsubramaniam Gnana Sundara Raj</u> , Byoung-Suhk Kim	Sonochemical synthesis of nanostructured metal oxides as efficient electrode materials for high-performance energy storage applications
IMESD18-04	<u>Anukul K. Thakur</u> , Shashi B. Singh, Mandira Majumder	Graphene oxide/nitrogen and boron doped carbon integrated hybrid composite for supercapacitor application
IMESD18-05	<u>Sushobhan Kobi</u>	Understanding the Compositional-Phase-Mechanical (In)stability and Spontaneous Cracking of Li-La-zirconate based Solid Electrolyte
IMESD18-06	<u>Rajinder Kaswan</u> , S. C. Sivasubramaniana, Anshuman Dalvi	Structural and Conductivity Studies on Ionic Liquid Confined Lithium Silicate Glasses Prepared by Sol-Gel Route
IMESD18-07	<u>Farjana J. Sonia</u> , Manoj K. Jangida, M. Aslam, Priya Johari, Amartya Mukhopadhyaya	Electrochemical Li-storage and associated mechanical integrity of well-ordered few layers graphene and its variant
IMESD18-08	<u>Raja Sen</u> , Priya Johari	Understanding the Reaction Mechanism of High Density Electrode Materials for Next-Generation Li-Ion Batteries
IMESD18-09	<u>Sumit Ranjan Sahu</u> , Vallabha Rao Rikka, Prathap Haridoss, Raghavan Gopalan, Raju Prakash	Synthesis of Bare and Metal Decorated Graphene Sheets from Single Walled Carbon Nanohorns for Lithium-ion Battery Applications
IMESD18-010	<u>Anshuman Chaupatnaik</u> , Prabeer Barpanda	$MLi_2Ti_6O_{14}$ (M = Sr, Ba, Pb) Titanate Anodes for Rechargeable Batteries
IMESD18-011	<u>Krishnakanth Sada</u> , Baskar Senthilkumar, Ritambhara Gond, Valerie Pralong, Prabeer Barpanda	Layered $Na_2Mn_3O_7$: A Robust Cathode for Li, Na and K- ion Battery

IMESD18-O12	<u>Varchaswal Kashyap,</u> Sreekumar Kurungot	Cobalt Ferrite Nanoparticle Supported N-doped Reduced Graphene Oxide as an Efficient Oxygen Reduction Electrocatalyst for Zn-Air Battery
IMESD18-O13	<u>P. Vishnu Vardhan,</u> Mustapha Balarabe Idris, S. Devaraj	Electrodeposited MnCO ₃ as a high performance electrode material for supercapacitor
IMESD18-O14	<u>Arvind Singh,</u> Bilal Ahmed, Saurav K. Ojha, Animesh K. Ojha	Role of annealing temperature on structural modification of MoO ₃ for enhanced electrochemical properties
IMESD18-O15	<u>Mrs. Jayassre Ramakrishnan,</u> Mr. P P Vaidya, Mr. N Gopalakrishnan, Mrs. J.M. Nair	Low Cost High performance computer controlled system for Measurement of Ultra capacitor Characteristics
IMESD18-O16	<u>Anuja.A Yadav,</u> Snehal .L. Kadam, Shrinivas B. Kulkarni	Hydrothermally synthesized FeCo ₂ O ₄ electrodes for energy storage application
IMESD18-O17	<u>P.Thomas,</u> M.Padmini	High performance of Polypyrrole -CaCu ₃ Ti ₄ O ₁₂ nano composites for supercapacitor application
IMESD18-O18	<u>Dr. M. Ulaganathan,</u> S.Suresh , P.Ragupathy	Morphology-controlled active material for binder free supercapacitor prototype
IMESD18-O19	<u>M. Dinachandra Singh,</u> Anshuman Dalvi, D. M. Phase	Understanding of ionic transport in NTP dispersed Na ⁺ ion hybrid polymer nanocomposites using XANES spectroscopy
IMESD18-O20	<u>Arihant Bhandari,</u> Jishnu Bhattacharya	Origin of fast ion conduction in Li ₁₀ GeP ₂ S ₁₂ , a Superionic Conductor
IMESD18-O21	<u>N. Angulakshmi,</u> Penghui Xie, Zhihao Tang, Xiaohui Tian, Yanbin Zhu, Yingke Zhou	Electrochemical and interfacial properties of poly (ethylene oxide)-based electrolytes encompassing LATP for all-solid-state lithium-ion batteries
IMESD18-O22	<u>Stelbin Peter Figerez,</u> Sajan Chinnan, Pulickal M Ajayan, Raghavan Prasanth	Extraordinary cycling stability of LiFePO ₄ /rGO composite electrode with PAN based polymer gel electrolyte in high temperature lithium ion batteries
IMESD18-O23	<u>Mohanapriya K.,</u> Neetu Jha	The role of supporting electrolyte and nanotubular structure of Graphene Nanoscrolls based cathode in aqueous aluminium-ion batteries
IMESD18-O24	<u>T. Mallikharjuna Rao</u>	A Review on Thermal Energy Storage Media

IMESD18-O25	<u>B. Senthilkumar</u> , Sai Pranav, P. Barpanda	Reversible Sodium and Potassium-ion Intercalation in $\text{Na}_x\text{MnO}_{2+y}$
IMESD18-O26	<u>Chinnasamy Murugesan</u> , Baskar Senthilkumar, and Prabeer Barpanda	Cobalt Phosphate Based Insertion Material as a Multifunctional Cathode for Rechargeable Hybrid Sodium-air Batteries
IMESD18-O27	<u>K. Shree Kesavan</u> , M.S. Michael	Investigation on structural stability of monoclinic phase $\text{Li}_2\text{MnSiO}_4$ on delithiation
IMESD18-O28	<u>P. E. Lokhande</u> , U. S. Chavan, S. V. Deokar, Aniket Patil	Direct deposition of Ni/Co LDH on rGO deposited Ni foam for high performance hybrid supercapacitor
IMESD18-O29	<u>Sumeet Kumar</u> , Jayanta Das	Hydrothermal synthesis of CuO nanowires and Cu_2O nanospheres anchored on rGO surface with enhanced electrochemical properties for energy storage applications
IMESD18-O30	<u>Roby Soni</u>	Superhydrophilic Polyaniline for High Rate Electrochemical Capacitor
IMESD18-O31	<u>Maurya Gyanprakash</u> , S.Ramanathan, Raj Ganesh S Pala	Investigation of the onset potential for Oxygen Evolution Reaction via Impedance Spectroscopy
IMESD18-O32	<u>Dr. Narendar Nasani</u> , Dr. Duncan.P. Fagg	Development of Protonic Ceramic Fuel Cells-current status and challenges
IMESD18-O33	<u>Prashant Kumar Gupta</u> , Sulay Saha, Koshal Kishor, Raj Ganesh S Pala	Ion Intercalation Induced Amorphization of High Surface Area Cobalt (II, III) Oxide (Co_3O_4) for Enhanced Water Oxidation Activity