Li-ION 2021

1 - 3 December

The International Virtual Conference on
Recent Advances in Lithium-ion Batteries (LIBs)
and their Recycling Methods for Sustainable Development

The Open University

IIT Hyderabad

Time zone: GMT

Students' Presentation Programme

DAY ONE - DECEMBER 1

PM SESSION

12:10 - 12:20 - Dr Penki Tirupathi Rao

High Energy Density NCM Cathodes for Li-ion Batteries

12:20 - 12:30 - Lakshmi Priya

Effect of Residual Moisture in Li-Ion Cell

12:30 - 12:40 - Dr Mir Wasim Raja

PAPERATOR: The Functionalized Paper Based Separator for LIBs

12:40 - 12:50 - Minfei Fei

A More Stable Lithium Anode Via Separator Engineering And In-situ Electrolyte Additive Tuned SEI

12:50 - 1:00 - Shilpa Umesh

Li6.4La3Zr1.4Ta0.6O12-Li2BO3 Composite Solid Electrolyte to Reduce the Sintering Temperature and Improve the Li-ion conductivity

1:00 - 1:10 - Shuvajit Ghosh

Multifunctional Utilization of Carbon Fibers in Lithium Based Rechargeable Batteries

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DAY TWO - DECEMBER 2

PM SESSION

12:30 - 12:40 - Madhushri Bhar

Plasma Jet Printing Induced High Capacity Graphite Anodes for Sustainable Recycling of Lithium-ion Batteries (LIBs)

12:40 - 12:50 - Ayonija Srivastava

Utilization of Carbon from Waste Printed Circuit Board for Energy Storage Applications

12:50 - 1:00 - Samhita Pappu

Recycled Spent Lithium-Ion Cathode Material for High-Performance Asymmetric Supercapacitor

1:00 - 1:10 - Rebeca Mello Chaves

Polyacrylonitrile Nanofibers Modified With Calix[4]arene For Recovery Of transition Metal ions Present In Lithium-ion Batteries

1:10 - 1:20 - Bhanu Pratap

Exploring Trade-off in Lithium-Ion Battery Recovery Strategies for Circular Economy

1:20 - 1:30 - Ankur Sharma

Tetrahedral Site Doping of Ni-containing ‘Layered’ Transition Metal Oxide towards High Voltage Structural and Electrochemical Stability as Cathode Material for Li-ion batteries

1:30 - 1:40 - Navpreet Kamboj

Ultrafine SnO-SnO2 Mix Phase Nanoparticles Anchored On Reduced Graphene Oxide For Superior Li-Ion Battery Showing Extraordinary Cycle Life

1:40 - 1:50 - Mangali Madhu Krishna

Integrating Polymer Electrolytes with Insertion Electrodes: Feasibility Studies for a Safer All-Solid Li-Ion Battery

1:50 - 2:00 - Pranay Gandharapu

Revealing Phase Transformations and Associated Electrochemical Behaviour of Sn-based Intermetallic Electrodes for Li-ion Batteries via In- Situ Studies