



Webinar - Energy Storage Materials: Synthesis, Characterization & Application in Battery System

An International Webinar on 'Energy Storage Materials: Synthesis, Characterization & Application in Battery System' on 17th May 2021, at 11am (IST) was organized collaboratively with Faculty of Education, First year B.Tech (Faculty of Engg&Tech) and with Office of International Relations. The Speaker of the program was Dr. Mohd Faiz bin Hassan, Lecturer, Advanced Nano Materials (ANoMa) Research Group, Ionic State Analysis (ISA) Laboratory, Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, Malaysia. He emphasized on the need for energy storage materials and how they are synthesized. His main focus was on usage of such materials in battery systems. Material Characterization and applications were also elaborated. All queries were answered and the speech was well received by the participants. It was an emphasis and request to the participant in the field of energy conservation. The program can be viewed at <https://youtu.be/IS7GSfc9Bfg>




Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
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University with Grade 'A' Status
(An ISO 21001 : 2018 Certified Institution)
Periyar E.V.R. High Road, Maduravoyal, Chennai-95, Tamilnadu, India.



Faculty of Engineering & Technology
First Year B.Tech
&
Faculty of Education

In collaboration with
Office of International Relations

Presents
A webinar on
*“Energy Storage Materials: Synthesis, Characterization
and Application in Battery System”*

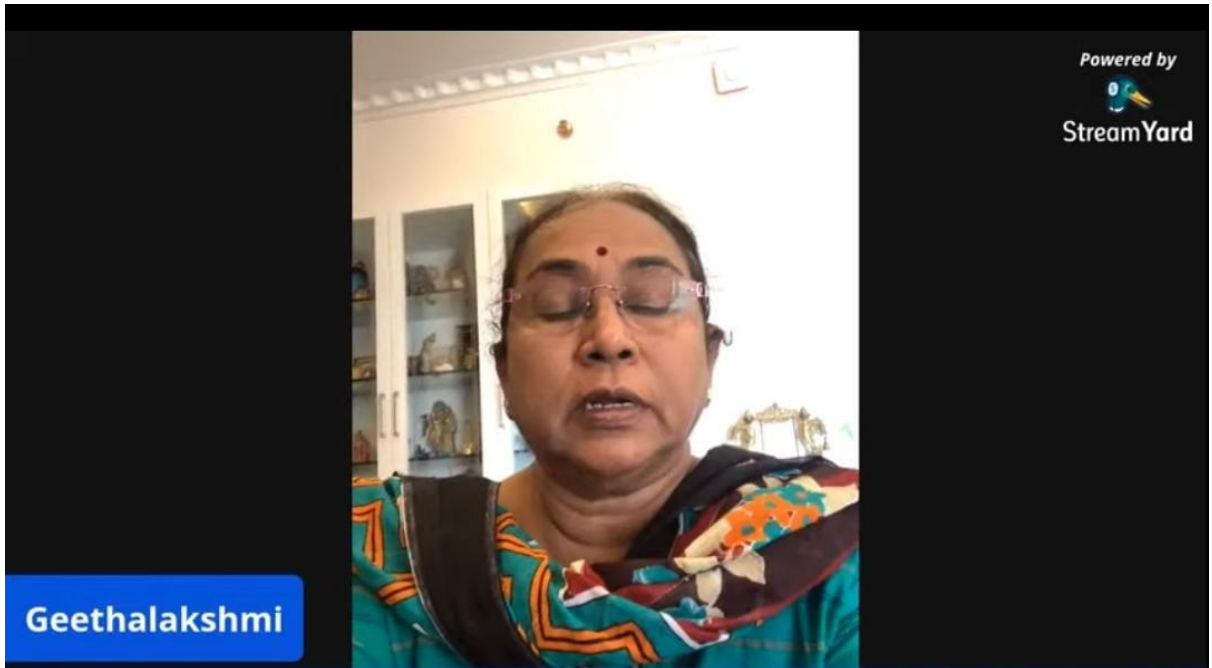


Dr. Mohd Faiz bin Hassan
Lecturer,
Advanced Nano Materials (ANoMa) Research Group,
Ionic State Analysis (ISA) Laboratory,
Faculty of Science and Marine Environment,
Universiti Malaysia Terengganu,
MALAYSIA.

Date: 17/05/2021

Time: 11 AM IST

Registration Link: <https://forms.gle/gkVMfPHVZ8PzYizQ9>



Geethalakshmi

S. Dr.M.G.R.EDUCATIONAL AND RESEARCH INST

Live chat

Top chat 75



Dr.V.Cyril Raj Joint Registrar

Dr.M.G.R.EDUCATIONAL AND RESEARCH INSTITUTE, B.Te

Live chat

Top chat 92

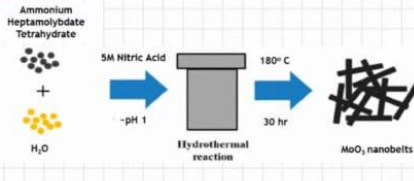




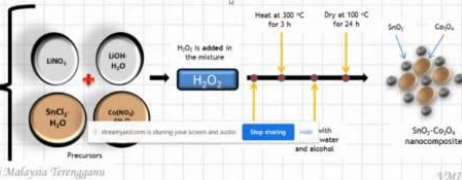
FAIZ

Experimental

Hydrothermal Method

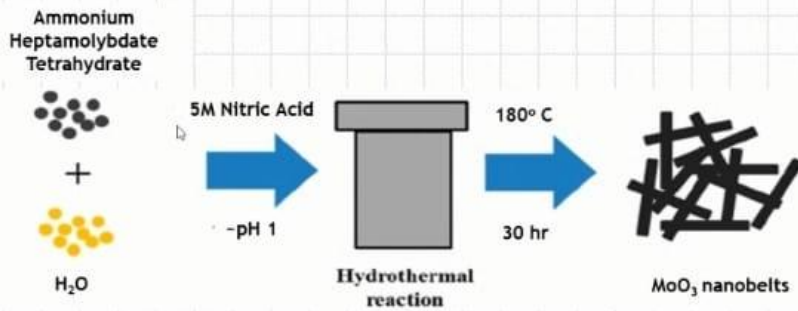


Molten Salts Technique

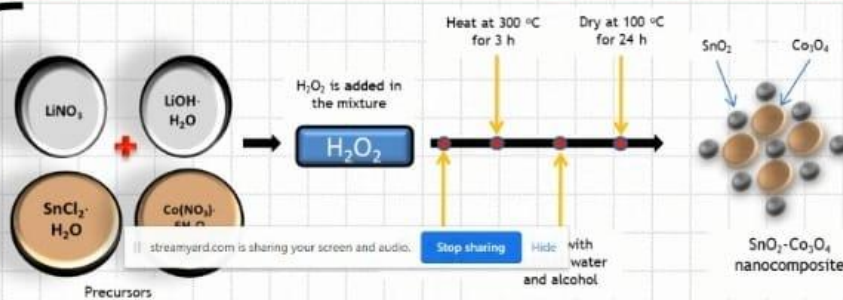


Experimental

Hydrothermal Method



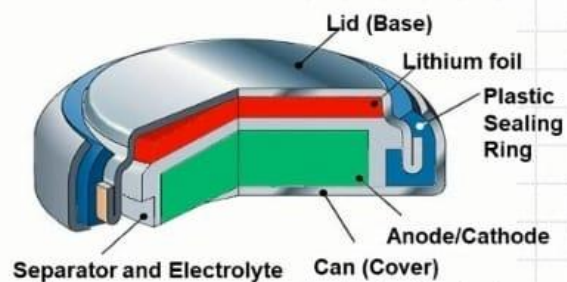
Molten Salts Technique



Coin Cell Fabrication

Stre

- Electrode (working)
 - Active materials, C-TMOs (80 wt.%)
 - Electrical conductor, carbon black (15 wt.%)
 - Binder, PVDF (5 wt.%)
 - Solvent, N-methyl-2-pyrrolidinone (NMP)
 - Current collector, copper foil
- Electrode (counter/reference)
 - Li metal
- Separator
 - Polypropylene
 - 25 mm thick
 - 50 % porosity
- Electrolyte
 - Salt, LiPF_6 (1 M)
 - Solvent, EC/DMC (50:50,w:w)



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LIVE 1:12:41

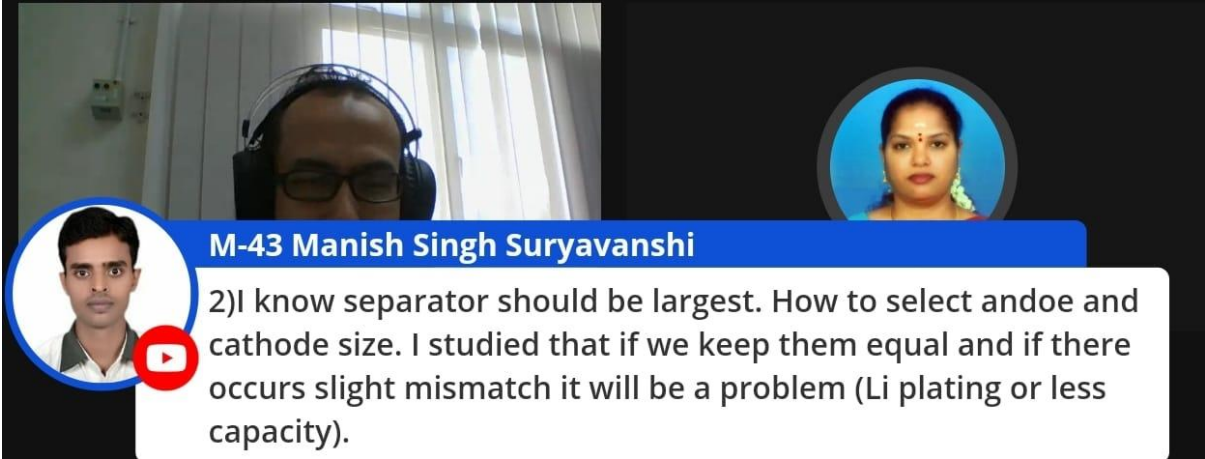
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M-43 Manish Singh Suryavanshi

1) Is it possible to open the Vent in Lithium Ion Battery using short circuit?



M-43 Manish Singh Suryavanshi

2) I know separator should be largest. How to select anode and cathode size. I studied that if we keep them equal and if there occurs slight mismatch it will be a problem (Li plating or less capacity).