

Meenal Agrawal

Research Fellow
Energy Storage Materials



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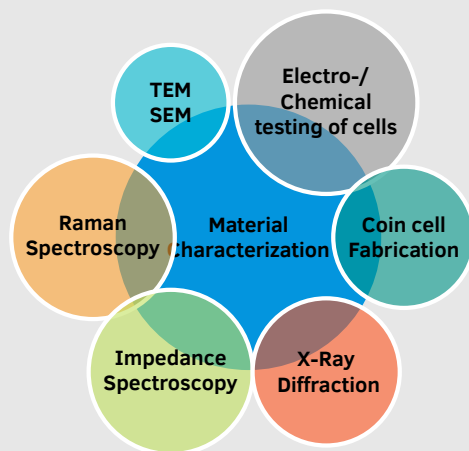


Meenal



meenal77.iitd@gmail.com

Skills



Interests

Energy Storage Systems

Traveling

Philosophy and Music

Dance

Reading books

References



Prof. Deepika Choudhury



deepika.choudhury@iitrpr.ac.in



Dr. Mahesh Chandra



mahesh22bhatt@gmail.com

Education

2018 - 2020 **M.Sc., Physics**
Rupnagar, Punjab
CGPA: 8.6

IIT, ROPAR

2015 - 2018 **B.Sc., Physics**
Jaipur, Rajasthan
Percentage: 83.40 %, First rank holder, Gold medalist

Maharani's College

Research Experience

2020 - 2022 **Research Fellow**

- Worked on development of polyanionic based cathode materials for sodium ion batteries. Expert in synthesis of electrodes by solid-state method and hydrothermal method, operating muffle and tube furnaces, ultra-sonification technique, slurry making by magnetic stirring, electrode coating by doctor blade method, calendaring of electrodes, coin cell fabrication inside glove box.
- I have done literature survey on phosphate-based cathode materials and TMDs based anode materials. I have experience of synthesizing NASICON based- cathode material, TMDs based anode material via solid state and hydrothermal method. I have prepared 2016, 2032-coin cells in argon environment inside glove box. I worked on Neware battery tester and VMP3 electrochemical workstation for electrochemical characterization of coin cells.

2018 - 2020 **M.Sc. Projects**

- Pursued a long-term project on Quantum Entanglement, Bell Inequality, EPR paradox under the supervision of Prof. I.S. Tyagi at IIT Ropar.
- Pursued a short-term project on the "AUTOMATIC DRIP IRRIGATION SYSTEM" under the supervision of Prof. Rakesh Kumar at IIT Ropar.

Fellowship and National Level exams qualified

July 2015 **DST Inspire fellowship** from July 2015-May 2020

May 2015 **GARGI award cum Scholarship** June 2015

Skills

- Languages: C, MATLAB, FORTRAN
- Operating System: Windows, Linux
- Data plotting software: Origin, BTSDA for GCD plots
- Data analyzing software: Fullprof software, Match, EC lab software
- Other tools: Microsoft office, POWDLL software, latex

Future Research Interests

- In-depth understanding of electrode processes involved in existing and future generation sodium-ion battery electrode materials using state of the art characterization technique.