

CURRICULUM VITAE

Mr. Salunke Akshaykumar Dipchand (*B.Eng., M.Tech.*)

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1. Education:

2018-2020 M.Tech. Defence Institute of Advanced Technology (DU), DRDO, Pune, India. (8.21/10)
2018 GATE Qualified – National Graduate Aptitude Test in Engineering (Mechanical)
2013-2017 B.Eng. Savitribai Phule Pune University, Pune, India. (73.22%)

2. Research Experience:

Dec. 2020-Dec. 2021 Junior Research Fellow Indian Institute of Technology, Jodhpur, India.
July 2019- May 2020 M.Tech Project Student R&DE (Engineers), DRDO, Pune, India.

Research Keywords:

- Photovoltaic Materials, Colloidal Quantum Dots, Lead Sulphide, Building Integrated Photovoltaics.
- Structural Composites, Polymeric Blends.

3. Publications:

1. **Akshaykumar D. Salunke**, Shubham Chamola, Angus Mathieson, Buddha Deka Boruah, Michael de Volder, and Shahab Ahmad, "Photo-Rechargeable Li-Ion Batteries: Device Configurations, Mechanisms, and Materials", *ACS Appl. Energy Mater.* **2022**, 5 (7), 7891–7912. <https://doi.org/10.1021/acsaem.2c01109>.
2. **Akshaykumar Salunke**, Sarath Sasidharan, Jayalakshmi Cherukattu Gopinathapanicker, Balasubramanian Kandasubramanian, and Anoop Anand, "Cyanate Ester-Epoxy Blends for Structural and Functional Composites", *Ind. Eng. Chem. Res.*, **2021** 60(8), 3260-3277, <https://doi.org/10.1021/acs.iecr.0c05008>.
3. Jayalakshmi C. G., **Akshaykumar Dipchand Salunke**, Makarand Joshi, Balasubramanian Kandasubramanian, and Anoop Anand, "Cyanate Ester-Epoxy Blends Towards Microwave Transparent Polymer Composites Through Resin Film Infusion for Wideband Electromagnetic Applications", *Polymer-Plastics Technology and Materials*, **2021**, (61)2, 145-160, <https://doi.org/10.1080/25740881.2021.1967389>.
4. Rashid M. Ansari, **Akshaykumar D. Salunke**, Mohammad Rahil, and Shahab Ahmad, "Solution-Processed Ruddlesden–Popper 2D Perovskite–MoS₂ Hybrid Heterojunctions", *Adv. Mater. Interfaces*, **2023**, 10(10), 2202170. <https://doi.org/10.1002/admi.202202170>.

4. Technical Skills:

Expertise in handling Instruments:

- Professionally operating *FE-SEM (Zeiss Ultra Plus)* as teaching assistantship duty at IIT Roorkee.
- FTIR, Photoluminescence, UV-visible spectroscopy, Dynamic Light Scattering.

Also, proficiency in Computer Software:

- SCAPS-3310, Adobe Illustrator, Catia, AutoCAD, OriginLabs (Statistical Analysis), Igor Pro, MATLAB, Solid Edge, MS Office.

I hereby declare that the above-mentioned information is correct to the best of my knowledge.

Date: 20th April 2023

Place: IIT Roorkee

Yours Sincerely,

Mr. Salunke Akshaykumar Dipchand