



Dr. Meghna Sasi

Assistant Professor (on Contract)

Department of Chemistry

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Academic Qualification: Integrated MS, PhD

Education

School Record: SFS Public School and Junior College, Ettumanoor

Graduate Record (2015 – 2020): Indian Institute of Science Education and Research (IISER), Thiruvananthapuram, India

Major: Chemistry

Project Title: Fused porphyranooids and related macrocycles: Structure-property correlation ()

Project Supervisor: Dr. Gokulnath Sabapathi, School of Chemistry, IISER Trivandrum

Minor: Biology

Project: Elucidating the Role of Photoreceptors in The Circadian Rhythm of *Drosophila melanogaster*

Project Supervisor: Dr. Nisha N. Kannan, School of Biology, IISER Trivandrum

Post-Graduate record (2021-2024): The University of Osaka, Japan

Thesis Title: Synthesis, Structure, and (Chir)optical Features of Hetero[7]helicenes and Hetero[7]dehydrohelicenes

PhD supervisor: Prof (Dr) Shinobu Takizawa, Department of Data-Driven Synthetic Organic Chemistry for Medicinal and Material Applications, The University of Osaka, Japan

Publications

1. Salem, Mohamed SH, Rubal Sharma, Md Imrul Khalid, Meghna Sasi, Ryo Amasaki, Yoshitane Imai, Mitsuhiro Arisawa, and Shinobu Takizawa. "Data-driven electrochemical one-pot synthesis of double hetero [7] dehydrohelicene." *Electrochemistry* 91, no. 11 (2023): 112015-112015.
2. Ajay, Jayaprakash, Thondikkal Sulfikarali, Aathira Edwin, Meghna Sasi, Shigeki Mori, and Sabapathi Gokulnath. "A Modular Synthesis of Planar, Redox-Stable Hückel Anti-Aromatic [36] Nonaphyrin (1.0. 0.1. 0.0. 1.0. 0) with Only Three meso-Bridges." *Organic Letters* 27, no. 9 (2025): 2128-2132.

Book Chapter

1. Spirooxindole: Chemistry, Synthesis, Characterization, and Biological Significance (2024). ISBN: 978-0-443-22324-2. Mohamed S.H. Salem, Ahmed S. Gabr, Meghna Sasi, Duona Fan, Shinobu Takizawa.

Conference Proceedings

Oral Presentation: Chemical Society of Japan (2023)
Title- Azobenzene Based Chiral Photoswitchable Vanadium Catalyst: Design and its Application to Enantioselective Synthesis

Awards/ Honors

INSPIRE Scholarship (DST, India, 2015–2020)
JNCASR Summer Research Fellowship (DST, India, 2019)
TOEFL (2019) Score: 103/120
GATE- IIT Delhi (2020)
Next-Generation Fellow Support (Japan, 2021–2024)