

Jusaina Eyyathiyil

Curriculum Vitae

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D.O.B.: December 11, 1996



Education

- 2019-present **Indian Institute of Science, Bangalore, India**
Doctor of Philosophy in chemistry, Research Title: Design and Development of Chiral Organic Luminescent Molecules for Chiroptical Applications
- 2014-2019 **Indian Institute of Science Education and Research Bhopal, Madhya Pradesh, India,**
BS-MS Dual Degree, Tenure: 5 years, Natural Sciences-Chemistry.
CPI: 9.9 out of a 10.0 point scale (**Rank: 1**)
- 2012-2014 **I.K.T. Higher Secondary School, Malappuram, Kerala, India, Class 11th & 12th,**
Science-Physics, Chemistry, Mathematics, Biology.
Obtained 98.9% marks

Research Interests

- Chiral Luminescent Materials
- Synthetic Organic Chemistry
- Homogeneous Catalysis
- Functional materials

Fellowships & Awards

- Dec 2021 **Best Poster Award (Sponsored by American Chemical Society)**
International Conference on Main-group Molecules to Materials-II, organised by NISER, Bhubaneswar, during Dec. 13-15, 2021
- July 2019 **Prime Minister's Research Fellowship (PMRF)**
Ph.D. Fellowship bestowed on a master student from national level institute after rigorous selection procedure.
- May 2019 **President's Gold medal**
Awarded for the best academic performance amongst all disciplines of BS-MS Dual-degree in IISER Bhopal.
- May 2019 **Proficiency medal in chemistry**
Awarded for the best academic performance in chemistry discipline among the graduating batch of BS-MS Dual-degree in IISER Bhopal.
- March 2019 **Graduate Aptitude Test in Engineering (GATE)**
in Chemistry All India Rank 2007
- June 2018 **Junior Research Fellowship** in CSIR-National Eligibility Test (Chemical Sciences) securing All India Rank 90
- May – July (2017) **Science Academies' Summer Research Fellowship, monthly fellowship of INR 10000.**
Summer Research Fellowship for 1350 selected students/teachers in India given by three national science academies in India.

- May – July (2016) **Science Academies' Summer Research Fellowship**, *monthly fellowship of INR 8000*
Summer Research Fellowship for 1500 selected students/teachers in India given by three national science academies in India.
- Aug 2015 & Aug 2016 **C.N.R. Rao Education Foundation Prize**, *total prize money of INR 10000*
The bi-annual award is bestowed on a first year BS-MS student securing the highest CPI in IISER Bhopal
- Aug 2014 **INSPIRE-DST scholarship**, *monthly fellowship of INR 5000 & annual contingency of INR 20000 for a period of 5 years*
Fellowship given by Department of Science and Technology, India for students secured top 1% marks in higher secondary school examination.

Skills & Experiences

- **Instrumentation Skills:** UV-Vis Spectrophotometer, Spectrofluorometer, Single crystal X-ray Diffractometer, Glovebox, Rotary Evaporator, Solvent distillation, IR spectroscopy, Differential Scanning Calorimetry, etc.
- **Techniques:** NMR spectra analysis, FTIR spectra analysis, ESI-MS spectra analysis, TLC, Column Chromatography, Schlenk Lines, Recrystallization, etc.
- **Software:** MS Office, Chem Office, MERCURY, ORIGIN, MestReNova, GaussView, etc.

Conferences & Camps

- Dec 2021 **International Conference on Main-group Molecules to Materials-II, 2021** (MMM-II) Three-day symposium organized by NISER, Bhubaneswar, during Dec. 13-15 2021 (virtual mode)
- Dec 2018 **12 Days international symposium** on "Supporting Chemistry Research with modern DFT (Density Functional Theory): Software, Techniques, and Applications" organized by Smt. S.S. Patel Nootan Science & Commerce College, Visnagar, Gujarat (Virtual mode)
- Dec 2018 **Inter-Disciplinary Explorations in Chemistry (I-DEC) 2018 held at IISER Bhopal** celebration of 10th year of inception of chemistry department at IISER Bhopal
- Aug 2015 **Asian Science Camp (ASC) 2015** held at Thailand Science Park, Thailand
Total of 270 students from 30 asian countries participated.
(*Won best question award during chemistry camp section*)

Publications

- Mar 2022 Jena, S.; **Eyyathiyil, J.**; Behera, S. K.; Kitahara, M.; Imai, Y.; Thilagar, P. Crystallization Induced Room-Temperature Phosphorescence and Chiral Photoluminescence Properties of Phosphoramides. *Chem. Sci.* **2022**, *13* (20), 5893–5901.
- Jul 2021 Kumar, A.; **Eyyathiyil, J.**; Choudhury, J. Reduction of Carbon Dioxide with Ammonia-Borane under Ambient Conditions: Maneuvering a Catalytic Way. *Inorg. Chem.* **2021**, *60* (15), 11684–11692.
- Dec 2018 Dhingra, S.; Barman, D. J.; Yadav, H. R.; **Eyyathiyil, J.**; Bhowmik, P.; Kaur, P.; Adhikari, D.; Roy Choudhury, A. Structural and Computational Understanding of Weak Interactions in "Bridge-Flipped" Isomeric Tetrafluoro-Bis-Benzylideneanilines. *CrystEngComm* **2018**, *20* (6), 716–727.