

Integrated PhD Student at Indian Institute of Science Education and Research (IISER) Tirupati



Camelia Dutta

Education

Integrated PhD, Chemistry, 2020

IISER Tirupati,

Supervisor: Dr. Jatish Kumar

M.S.: CGPA- 8.5

B.Sc, Chemistry Honours, 2017-2020

Seth Anandram Jaipuria College, University of Calcutta

Percentage: 79.25%

Previous Experience: Lab Rotation Project

Computation Studies on Stacking Interaction in the Aromatic Systems (Jan-April, 2021)

Supervisor: Dr. Padmabati Mondal

Aggregation of Achiral Gold Nanorods on Chiral Cellulose Nanocrystals Template (May-Dec, 2021)

Supervisor: Dr. Jatish Kumar

Design and Synthesis of Atomically Precise Optically Active Metal Nanocluster (Jan- July, 2022)

Supervisor: Dr. Jatish Kumar

Publication

- Dutta, C.**, Natarajan, R. V., Kumar, J., *Chirality*, 2024, 36, e23670.
- Dutta, C.**, Maniappan, S., Kumar, J., *Chem. Commun.*, 2023, 59, 13735-13738.
- Dutta, C.**, Maniappan, S., Kumar, J., *Chem. Sci.*, 2023, 14, 491-498.
- Maniappan, S., **Dutta, C.**, Solís, D. M., Taboada, J. M., Kumar, J., *Angew. Chem. Int. Ed.*, 2023, 62, 202300461.
- Maniappan, S., **Dutta, C.**, Cheran, A., Solís, D. M., Kumar, J., *Chem. Sci.*, 2024, 15, 7121-7129.
- Jadhav, A. B., Cheran, A., **Dutta, C.**, Marydasan, B., Kumar, J., *J. Phys. Chem. Lett.*, 2024, 15, 8125-8132.
- Likhar, A. R., Cheran, A., Sengupta, A., **Dutta, C.**, Kumar, J., Asthana, D., *Chem. Commun.*, 2024, 60, 9022-9025.
- Jadhav, A., Cheran, A., **Dutta, C.**, Kumar, M. P., Pujala, R. K., Kumar, J., *ACS Mat. Lett.*, 2024, (*Manuscript Accepted*).
- Dutta, C.**, Natarajan, R. V., Kumar, J., *Chem. Sci.*, 2024, (*Manuscript under Revision*).

Achievements

- Best Poster Award:** ACS Publications in the International Conference on "Emerging Trends in Supramolecular Science & Technology"
- Prime Minister's Research Fellowship (PMRF)**, Cycle 10.
- GATE 2023**
- Academic Excellence Award 2023** for the exemplary performance in the courses of IPhD program in Chemistry, IISER Tirupati.
- JAM (Joint Admission Test for M.Sc.), 2020:** Rank- 683.
- Best Poster Award:** Current Trends in Chemical Science (2019), Scottish Church College, University of

Instrumental and Computational Skills

Single Crystal XRD, Powder XRD, Circularly Polarised Luminescence (CPL), Circular Dichroism (CD), UV-Vis Spectroscopy, Fluorescence Spectroscopy, Fourier Transform Infrared Spectroscopy (FTIR), Time Resolved Fluorescence Spectroscopy, Scanning Electron Microscope (SEM).

DFT, TD-DFT, NBO Calculations.

Teaching Experience

- CHM 211- Inorganic Chemistry, BSMS 3rd semester, IISER Tirupati.
- CHM 222, BSMS 4th semester, IISER Tirupati.
- Modern Engineering Materials, Electrochemistry and Applications, Instrumental Methods and Applications, Structure and Bonding Models, BTech 1st year, Sri Venkateswara College of Engineering, Tirupati.

Academic Participation

- 34th International Symposium on Chirality 2024, Kyoto, Japan (Poster Presentation).
- International Conference on "Emerging Trends in Supramolecular Science & Technology", SRM University (Poster Presentation & Best Poster Award).
- International Winter School 2023 on Frontiers in Materials Science & International Conference on Recent Advances in Materials, JNCASR (Poster Presentation).
- International Conference on Emerging Materials, 2023, IISER Pune (Poster Presentation).
- Conference of Current Trends in Chemical Science (Organized by Department of Chemistry, Scottish Church College, University of Calcutta) (Best Poster Award).
- National Conference on Functional Molecules (Poster Presentation).

Address

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Nationality

Indian

Language

English, Hindi, Bengali

Hobbies

Singing, Drawing, Reading