






PERSONAL INFORMATION

Name: Subhankar Kundu
Gender: Male
DOB: 9th March, 1992
Nationality: Indian

CONTACT

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 Hostel 1, IISER Bhopal, Bhauri Bhopal, Madhya Pradesh India- 462066

Fellowship

JRF/SRF-UGC (2016 to till date)

Skills

Synthesis and characterization of small organic molecules using ¹H, ¹³C NMR, Mass spectrometry, FTIR analysis.

Expertise: Common Laboratory instruments, UV-Visible and fluorescence Spectrometers, TCSPC, FCS, FLIM, fluorescence microscopy, confocal microscopy, cell culture, solid-state quantum yield measurements using integrating sphere, DFT and TDDFT calculations.

Software expertise: Microsoft Office, Origin Pro, Chem-draw, IgorPro, Photoshop.

Language

English, Hindi, Bengali

Achievements

Best poster award INTERACTIONS 2019, IISER Bhopal.

Best poster award, AMEEA, 2018, NIT Rourkela. Branch topper (Science and Arts) in M.Sc (Gold medal).

Chemistry department topper in M.Sc (Silver medal).

State level champion in debate competition.

State level champion in essay writing competition.

Hobbies

Cooking, Singing, and Gardening.

Subhankar Kundu

(Research Scholar at IISER Bhopal)

Synopsis

Mr. Subhankar Kundu was born at Gangarampur, West Bengal. He completed his B.Sc. in Chemistry from Scottish Church College, Kolkata (University of Calcutta, 2014). He received his Master's degree in Chemistry from the National Institute of Technology (NIT), Rourkela, in 2016. He joined the Indian Institute of Science Education and Research Bhopal in 2016 to pursue his Ph. D. under the guidance of Dr. Abhijit Patra. His research work focuses on the development of functional fluorescent materials for intracellular sensing, imaging, and the exploration of the intriguing photophysics of multi-chromophoric molecular assembly.

Education

Ph.D. | Indian Institute of Science Education and Research Bhopal, (August 2016-till date)

Area of Research: Molecular Spectroscopy | CGPA (Course Work): 10

M.Sc. | National Institute of Technology, Rourkela (2016)

Specialization: Physical Chemistry | CGPA: 9.6

B.Sc. | Scottish Church College, Kolkata (University of Calcutta, 2014)

Hons.: Chemistry | Aggregate: 77%

10 + 2 | Gangarampur High School (2010)

Board: WBCHSE | Aggregate: 87.4%

10 | Gangarampur High School (2008)

Board: WBBSE | Aggregate: 90.1%

National-level competitive

- GATE 2016 (AIR: 410)
- CSIR-UGC-NET JRF 2015 (AIR: 73)

Research publications

- N-rich electron acceptors: triplet harvesting in multichromophoric pyridoquinoxaline and pyridopyrazine-based organic emitters**, *J. Mater. Chem. C* 2020, DOI:10.1039/D0TC02520H.
- Molecular engineering approaches towards all-organic white light emitting materials**, *Chem. Eur. J.*, (Review) 2019, 26, 5557.
- Naked-eye colorimetric sensor for methanol and 'turn-on' fluorescence detection of Al³⁺**, *New J. Chem.*, 2019, 43, 18582.
- Dynamic and static excimer: a versatile platform for single component white light emission and chelation-enhanced fluorescence**, *J. Mater. Chem. C* 2018, 6, 12086.
- A smart photosensitizer based on a red emitting solution processable porous polymer: generation of reactive oxygen species**, *Chem. Commun.*, 2018, 54, 9123.
- White-light-emitting NaYF₄ nanoplatfor for NIR upconversion-mediated photodynamic therapy and bioimaging**, *Chem. Nanomater.*, 2018, 4, 583.

Patent

- Dibenzopyridoquinoxaline based Multichromophoric Compounds with Photoredox and Thermally Activated Delayed Fluorescence Characteristics**, *November 2019, IN.*

Reference

Dr. Abhijit Patra, Associate Professor, IISER Bhopal, abhijit@iiserb.ac.in

Prof. Kankan Bhattacharyya, Visiting Professor, IISER Bhopal, kankan@iiserb.ac.in

Prof. Raghuvir Singh Tomar, Professor, rst@iiserb.ac.in.