



Sambit Kumar Lenka

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About me:

I am the University Topper and Gold Medalist with a 9.35 CGPA out of 10, for the batch 2016-21 at my university. Currently a PhD student in Organic Chemistry, with experience in the synthesis and characterisation of different organic compounds. Have hands-on experience with NMR, GCMS, LCMS, GPC, FTIR, UV-Vis and Fluorescence instruments.

WORK EXPERIENCE

02/07/2021 – CURRENT – Bratislava, Slovakia

PHD/DOCTORAL STUDENT – POLYMER INSTITUTE OF THE SLOVAK ACADEMY OF SCIENCE

Started the PhD career under Dr Jaroslav Mosnacek, Department of Synthesis and Characterisation of Polymers. The dissertation topic is "Synthesis of functional polymers and polymeric materials using modern polymerisation techniques".

- Hands-on experience with GPC and other polymer-related instruments
- Experimental knowledge of DSC and TGA instruments

01/07/2020 – 31/07/2021 – Thiruvapur, India

MASTER'S PROJECT STUDENT – CENTRAL UNIVERSITY OF TAMIL NADU

Completed Master's Project under Prof. S. Nagarajan, at the Department of Chemistry, titled "Unusual Behavior of D-Π-A-A/D Quinolines from Aggregation Caused Quenching to Aggregation Induced Enhanced Emission". The project covered -

- Synthesis and characterisation of 12 new quinoline derivatives.
- Aggregation studies using UV-Vis and Fluorescence instruments in different solvents
- Analysis of the AIEE behaviour was done using DFT, X-ray crystallography studies, DLS studies and computer simulations using Mercury software

22/05/2019 – 05/07/2019 – Chennai, India

SUMMER INTERN STUDENT – INDIAN INSTITUTE OF TECHNOLOGY MADRAS

Summer Internship in INSA-2019 under Prof V. Kesavan, Department of Biotechnology for Synthesis of imidazole moiety related to anti-cancer drugs.

- 44 new imidazole derivatives were synthesised and studied using NMR and IR analysis.
- Hands-on experience with HPLC and GCMS instruments.

EDUCATION AND TRAINING

02/09/2021 – CURRENT – Faculty of Chemistry and Food Technology, , Radlinského 2101/9, Staré Mesto, Bratislava, Slovakia

PHD OR DOCTORAL DEGREE – Slovak Technical University

<https://www.fchpt.stuba.sk/>

25/07/2016 – 31/07/2021 – Neelakudi Campus, Thiruvapur, India

INTEGRATED MASTER'S IN SCIENCE (IMSC) – Central University of Tamil Nadu

The Integrated course was 3+2 (Bachelor + Master) duration.

- It covered all the parts of chemistry from basic to advance levels.
- Laboratory courses included micro and macro synthesis, characterisation techniques, salt analysis, electrochemical analysis, etc.
- Origin Plotting, Mercury, and other chemistry-related software taught

Field(s) of study

- Natural sciences, mathematics and statistics : *Chemistry*

Thesis: Unusual Behavior of D- π -A-A/D Quinolines from Aggregation Caused Quenching to Aggregation Induced Enhanced Emission

9.35 | 214 | <https://cutn.ac.in/>

20/07/2022 – 31/07/2022 – University of Aveiro, , 3810-193 Aveiro, Aveiro, Portugal

SUMMER SCHOOL TRAINING – European Cost Association

● **LANGUAGE SKILLS**

Mother tongue(s): **ODIYA** | **HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	A1	A2	A1	A1	B1
TAMIL	B2	A1	B2	B2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **PUBLICATIONS**

Functionalized D/A-A-D quinolines for application in solution-processable p-channel organic field-effect transistors

<https://doi.org/10.1039/D2NJ00686C> – 2022