Maansi Aggarwal



Objective: To contribute to the ever expanding field of biochemistry with carbon dot conjugation for biomedical applications that brings out the best of creativity and imagination.

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2 #206, Department of Chemistry, IIT Patna

ACADEMIC BACKGROUND	
Ph.D. in Chemistry	2021-Present
Indian Institute of Technology, Patna	
CGPA: 8.79/10	
M.Sc. in Chemistry	2018-2020
Thapar Institute of Engineering and Technology, Patiala	
CGPA: 9.74/10	
B.Sc. Non Medical	2015-2018
M.C.M DAV College for Women, Chandigarh, Punjab University	
Percentage: 83.25%	
12th Class (CBSE)	2014-2015
Below Holy Heart Senior Secondary School, Nahan, Himachal Pradesh	
Percentage: 92%	
10th Class (CBSE)	2012-2013
A Holy Heart Senior Secondary School, Nahan, Himachal Pradesh	
CGPA: 9.80	

PUBLICATIONS

- "Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C₃N₄)" by **Maansi Aggarwal**, Soumen Basu, Nagaraj P.Shetti, Mallikarjuna, N.Nadagouda, Eilhann, E.Kwon, Young-Kwon Park, Tejraj M.Aminabhavi (Chemical Engineering Journal, 2021).
- "Photocatalytic conversion of CO₂ into valuable products using emerging twodimensional graphene-based nanomaterials: A step towards sustainability" by Maansi Aggarwal, Soumen Basu, Nagaraj P Shetti, Mallikarjuna N Nadagouda, Tejraj M Aminabhavi (Chemical Engineering Journal, 2021).
- "Two-dimensional ultrathin metal-based nanosheets for photocatalytic CO2 conversion to solar fuels" by Maansi Aggarwal, Nagaraj P Shetti, Soumen Basu, Tejraj M Aminabhavi (Journal of Environmental Management, 2022).

INSTRUMENTAL SKILLS



REFERENCES

Prof. Prolay Das Professor, Department of Chemistry Indian Institute of Technology Patna

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Prof. Soumen Basu

Professor, School of Chemistry and Biochemistry Thapar Institute of Engineering and Technology

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RESEARCH EXPERIENCE

Dec'19-July'20: Research Fellow: Exploring the Role of Ultrathin 2D-Graphitic Layer in the Composites of g-C₃N₄ & GO for Photocatalytic CO₂ Reduction.

(Thapar Institute of Engineering and Technology, Patiala)

May'19-July'19: Summer Research Fellow: Characterization of new interstellar molecules by First Principle studies.

(Indian Institute of Technology, Ropar)

LANGUAGES

English Hindi

EXAM QUALIFIED

- GATE (Chemistry) 2021
- IIT JAM (Chemistry) 2018

CERTIFICATES

- Summer Internship fellowship **IAS-NASI-INSA** programmebν (Assigned IIT Ropar) (2019)
- Student Head of CaRe society, Thapar Institute of Engineering and Technology, Patiala

EXTRA-CURRICULAR ACTIVITIES

- Tutored the students in the Canada market for 6 months.
- Performed poetry in 5+ open mic events.
- Managed various departmental events consisted of 100+ people.