Faculty Profile

Santipur College

Department of Chemistry

General Information

Name	Dr. Prasenjit Mandal
Designation	Assistant Professor in Chemistry
Date of joining	07.08.2020
Address	Kalyani-B2/302 P.O +P.S. Kalyani Dist. Nadia Pin-741235 West Bengal
Contact E-mail	mandalprasenjit21@gmail.com
Mobile	+91-9851755095
Academic Qualification	M.Sc, Ph.D

Research And Publication

Area of Specialization			Physical Chemistry
Research interest			Nanochemistry, Graphene, Nanomaterials, Catalyst
Paper Publication			
Sl. No.	Date	Title	Publisher / Other Information

1	2024	Optimizing dielectric and electrical properties of graphene oxide thin film with temperature tuning: Insights from impedance spectra analysis on insulator to semiconductor transition	Inorganic Chemistry Communications Volume 170, Page 113016-113023 Authors: Aniruddha Mondal , Amit Kumar Kundu , Hari Shankar Biswas , **Prasenjit Mandal** , Dilip K. Maiti , Sandeep Poddar , Shib Shankar Biswas
2	2023	High-efficiency recyclable reduced graphene oxide-tin oxide nanocomposite catalyst for esterification	Inorganic Chemistry Communications Volume 159, Page 111638-111647 Authors: **Prasenjit Mandal,** Aniruddha Mondal , Hari Shankar Biswas , Dilip K. Maiti d, Ahsan Habib e , Fuad Mahamud , Sandeep Poddar , Sheikh Ahmad Izaddin Sheikh Mohd Ghazali
3	2023	Study on particle size and field effect with sp^2/sp^3 ratio of hydrogenated diamond-like carbon	Nanomaterials and Energy Volume 12(4), Page 1-6 Authors: Hari Shankar Biswas, Aniruddha Mondal, **Prasenjit Mandal,** Dilip K Maiti, Sandeep Poddar, Sheikh Ahmad Izaddin Sheikh Mohd Ghazali
4	2022	Fabrication of Graphene-Fe_3O_4 –Polypyrrole based ternary material as an electrode for Pseudocapacitor application	Materials Today: Proceedings Volume 65(2), Page 1001-1010 Authors: **Prasenjit Mandal,** Subhasis Bala, Sandeep Poddar, Sanjit Sarkar and Hari Shankar Biswas
5	2022	GO-APTES-Cu(II) Schiff base complex as efficient heterogeneous catalyst for aerobic decarboxylation reaction of phenylacetic acids	Inorganic Chemistry Communications Volume 144, Page 109825-109834 Authors: **Prasenjit Mandal,** Rostam A. Molla , Asoke P. Chattopadhyay, Sandeep Poddar and Hari Shankar Biswas
6	2022	Optimized study of the annealing effect on the electrical and structural properties of HDLC thin-films	RSC Advances Volume 12, Page 29805-29812 Authors: Hari Shankar Biswas, Jagannath Datta, **Prasenjit Mandal,** Sandeep Poddar, Amit Kumar Kundu and Indranil Saha
7	2022	Tuned synthesis and designed characterization of	Inorganic Chemistry Communications Volume 139, Page 109356-109361

		graphene oxide thin film	Authors: Hari Shankar Biswas, Subhashis Bala, Amit Kumar Kundu, Indranil Saha, Sandeep Poddar, Sanjit Sarkar and **Prasenjit Mandal**
8	2019	Electrolytic effect on the solubility and solvation thermodynamics of L-serine and L-isoleucine in aqueous media,	Journal of Chemical & Engineering Data (ACS Publication) Volume 64(10), Page 4286-4297 Authors: Saroj Chowdhury, **Prasenjit Mandal**, Aslam Hossain, Partha Guin, Sanjay Roy, Kalachand Mahali,
9	2018	Highly efficient and recyclable silver-graphene oxide nano-composite catalyst in the acylation of amines under solvent-free condition	MOJ Bio-organic & Organic chemistry Volume 2(4), Page *201–211* Authors: **Prasenjit Mandal**, Aritra N. Chattopadhyay Asoke P. Chattopadhyay
10	2018	Solubility and transfer solvation thermodynamics of L-isoleucine and L-serine in water to aqueous solution of Na2SO4 and K2SO4 from 288.15 K to 303.15K	Chemical Physics Letters Volume 706, Page 432–439 Authors: Saroj Chowdhury **Prasenjit Mandal**, Md. Sarikul Islam, Aslam Hossain, Partha Sarathi Guin ,Sanjay Roy, Kalachand Mahali.
11	2017	Synthesis and characterization of graphene like carbon nanosheet: Interaction with some Drug Molecules and anticancer activity	Chemistry Select. Volume 2, Page 3516 – 3526 Authors: Asoke P. Chattopadhyay, **Prasenjit Mandal,** Rajkumar Sarkar, Asmita Samadder, Anisur R. Khuda-Bukhsh, Priya Yadav, and Keka Sarkar
12	2015	Excellent catalytic activity of magnetically recoverable Fe_3O_4-graphene oxide nanocomposites prepared by a simple method	Dalton Transaction Volume 44, Page 11444-11456 Authors: **Prasenjit Mandal,** and Asoke P. Chattopadhyay

Books/ Reports/Chapters/General articles etc.

Sl. No.	Date	Title	Publisher/ Other information
1	2023	Catalytic Performance of Graphene-Based Nanocomposite	Book Chapter Recent Advances in Graphene Nanophotonics (Springer nature Switzerland AG-2023)

			Prasenjit Mandal, Hari Shankar Biswas
2	2024	Innovations in Waste Management: A Review	Book Chapter Sustainable Chemical Insight in Biological Exploration (Lincoln University College Malasia) **Prasenjit Mandal,** Amit kumar kundu, Aniruddha Mondal
3	2024	Applications of Green Solvents for the Development of Sustainable Chemical Process	Book Chapter Exploration of Chemical Complexity (Lincoln University College Malasia) Aniruddha Mondal Amit kumar kundu, **Prasenjit Mandal**
4	2024	Redefining Chemical Practices for a Low-Carbon Future through Sustainability with Eco-Chemistry	Book Chapter Exploration of Chemical Complexity (Lincoln University College Malasia) Amit kumar kundu, Aniruddha Mondal, **Prasenjit Mandal** Book Chapter**,**
5	2024	Harnessing Fused S-Heterocycles for Advanced Pollutant Degradation, Remediation Techniques, and Sustainability: Novel Catalytic Systems for Efficient Pollutant Removal	Book Chapter Examining Biological Relevance of Fused S-Heterocycles IGI-Global scientific publishing Hari Shankar Biswas Amit kumar kundu, **Prasenjit Mandal**
6	2025	Harnessing Nanofibers for Next-Generation Energy Applications: Innovative Solutions for Sustainable Energy Storage and Conversion	Book Chapter Cutting-Edge Advance in Nanofibers and Fibers. IGI-Global scientific publishing. Publishing Tomorrow's Research Today Hari Shankar Biswas, Shib Shankar Biswas Amit Kr. Kundu ,Dilip K. Maiti, and **Prasenjit Mandal**
7	2025	Investigating Materials for Green Hydrogen Generation with Potential and Challenges in Biological Hydrogen Production	Book Chapter Converging Chemical and Biological Sciences for a Sustainable Era(Lincoln University College Malasia) Aniruddha Mondal, **Prasenjit Mandal,** Amit Kumar Kundu, Shib Shankar Biswas
8	2025	Exploring the Catalytic Potential of Ionanofluids in Green Chemistry	Book Chapter Converging Chemical and Biological Sciences for a Sustainable Era(Lincoln University College Malasia) **Prasenjit Mandal**, Aniruddha Mondal, Shib Shankar Biswas, Amit Kumar Kundu

Talks/ Paper or Poster Presentations/ Chairing Sessions/ Seminar/ Webinar/ Workshop/ RC/ OP/ Short term Course/ Any Other attended			
Sl. No.	Date	Title / Event	Place/Organizer/ Other information
1	24.02.2016	National Seminar on Current Trends in Chemistry-VII (NSCTC-VII)	Poster Presentation Department of Chemistry University of Kalyani, India
2	18.03.2016 – 19.03.2016	National Conference on Emerging Trends in Condensed Matter Physics & Materials Science (ETCMPMS-2016)	Poster Presentation Department of Physics University of Kalyani, India
3	06.01.2016 – 07.01.2016	UGC Sponsored National Level Seminar-2016.	Poster Presentation Department of Chemistry, Ramakrishna Mission Vidyamandira, in Collaboration with Department of Chemistry, Jadavpur University, India
4	02.08.2016 – 03.08.2016	National Symposium on Recent Advance in Chemistry & Industry-2016(With Special Emphasis on Pharmaceutical Industry)	Poster Presentation Indian Chemical Society, 92 Acharya Prafulla Chanda Road , Kolkata-09), India
5	28.05.2014 – 29.05.2014	National Seminar on interdisciplinary Approaches in Science, Humanities and Culture	Poster Presentation Kalyani University Research Scholar Association , University of Kalyani
6	02.03.2012	National Seminar on Current Trends in Chemistry-VI (NSCTC-VI)	Poster Presentation Department of Chemistry, University of Kalyani, India

Institutional Responsibilities

Portion of syllabus allotted		
Semester	**Major/ Minor/ SEC/ MDC/ Other**	**Topic allotted**

Semester 1		
Semester 2		
Semester 3		
Semester 4		
Semester 5		
Semester 6		

Institutional Committees

Sl. No.	Name of Committee	Member/ Convener
1	Student Welfare Committee	Convener
2	Students' Credit Card	Help Desk Officer
3	Games and Sports Committee	Member
4	Gender and Sexual Harassment Committee	Member
5	SC/ST Cell	Member