

DEPARTMENT OF PHYSICS

PROFILE OF TEACHING STAFFAS ON30-06-2025

Dr. DR MANAS SAHA

- Total Teaching Experience in this College: 10 Years 3 months
- Special Paper/Specialization in M.A./M.Sc./M.Com./M.Tech: CONDENSED MATTER PHYSICS

- (a) **Full Name:** Dr. Manas Saha
 (b) **Present Designation:** Assistant Professor
 (c) **Areas of Specialization:** Condensed Matter Physics
 (d) **E-mail ID:** idformanas2@gmail.com
 (e) **WhatsApp Number:** 9804849540

(f) Academic Qualifications (From UG Onwards):

Sl. No.	University/College/Institution from which the Degree was obtained	Name of the Degree e.g., M.A.	Year of Obtaining Degree
1.	University of Calcutta	B.Sc	2010
		M.Sc	2012
		Ph.D	2019

(g) Teaching Experiences:

Sl. No.	Name of the University/College/Institution	Period (i.e., From.....to
1.	Shibpur Dinobundhoo Institution (College)	11/3/2015 to Till Date

(h) Research Experiences:

Sl. No.	Academic Session	Name of the University/College/Institution	Period (i.e., From.....to
1.	2012 to Till Date	Indian Association for The Cultivation of Science	2012 to 2019 after that with collaboration with other

(i) RC/OP/FIP/STC Attended:

Sl. No.	Academic Session	RC/OP/FIP/STC etc.	University/Institution	Period (i.e., From.....to	Online/Offline
1.	2023-24	RC	University of North Bengal	19 th February 2024 to 5 th March 2024	online

NUMBER OF PUBLICATIONS & CONFERENCE/ SEMINARS

Sl. No.	Academic Session	Published Papers in National Journals (Number)	Published Papers in International Journals (Number)	Book published as Author (Number)	Book published as Editor (Number)	Articles/Chapters Published in Books (Number)	Conference/Seminar Volumes (Number)	Papers accepted/Presented in Conferences, Seminars, Workshops, Symposia (Number)	Invited Lectures and Chairmanships at National or International Conference/Seminar (Number)	News Paper Publications (Number)	Books Reviewed (Number)
1.	2014-2015	2									
2.	2015-2016	4									
3.	2016-2017	2									
4.	2017-2018	1									
5.	2018-2019	2									
6.	2019-2020	1									
7.	2020-2021										
8.	2021-2022										
9.	2022-2023										
10.	2023-2024										
11.	2024-2025										
12.	2025-2026	1									

DETAILED LIST OF PUBLICATIONS

(a) JOURNALS (International)

Sl. No.	Title with Page No.	Journal	ISSN No.	Whether peer-reviewed.	Impact factor, if any.	No. of Co-Authors	Whether you are the sole author
1.	Tunable surface plasmon resonance and enhanced electrical conductivity of In doped ZnO colloidal nanocrystals	Nanoscale	2040-3372	YES	5.1	2	
2.	Carrier concentration dependent optical and electrical properties of Ga doped ZnO hexagonal nanocrystals	Physical Chemistry Chemical Physics	1463-9084	YES	2.9	3	YES
3.	Fabrication of tungsten nanocrystals and silver-tungsten nanonets: a potent reductive catalyst	RSC advances	2046-2069		4.6	3	

4.	Maximizing the photo catalytic and photo response properties of multimodal plasmonic Ag/WO ₃ -x heterostructure nanorods by variation of the Ag size	Nanoscale	2040-3372		5.1	3	
5.	Tunable surface plasmon resonance in Sn-doped Zn-Cd-O alloyed nanocrystals	The Journal of Physical Chemistry C	1932-7447		3.2	3	
6.	Enhanced photophysical properties of plasmonic magnetic metal-alloyed semiconductor heterostructure nanocrystals: a case study for the Ag@ Ni/Zn 1-x Mg x O system	Physical Chemistry Chemical Physics	1463-9084		2.9	3	
7	Excitation dependent multicolor emission and photoconductivity of Mn, Cu doped In ₂ S ₃ monodisperse quantum dots	Nanotechnology	0957-4484		2.8	3	
8	Shape controlled plasmonic Sn doped CdO colloidal nanocrystals: A synthetic route to maximize the figure of merit of transparent conducting oxide	Small	1613-6810		12.1	2	
9	Visible transparent white light emitting ink from a Ce 3+ sensitized monodispersed Tb, Sm co-doped LaF ₃ @ C-dot nanocomposite	Chemical Communications	1359-7345		6.22	3	
10	Nb-Dopant-Induced Tuning of Optical and Electrical Property of Anatase TiO ₂ Nanocrystals	Chemistry Select	2365-6549		2.0	4	YES
11	Nanoscale Kirkendall effect driven Au decorated CdS/CdO colloidal nanocomposites for efficient hydrogen evolution, photocatalytic dye degradation and Cr (VI) reduction	Catalysis Today	1873-4308.		5.3	3	YES

● **Papers accepted/ Presented in Conferences, Seminars, Workshops, Symposia**

Sl. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organized by	Whether International /National/State/Regional/ College or University Level
1.	Carrier concentration dependent optical and electrical properties of Ga doped ZnO hexagonal nanocrystals	National Seminar on Recent Trends in Atomic Physics	SERB and Ramakrishna Mission Residential College (Autonomous) Narendrapur	National

ASSOCIATION WITH UNIVERSITIES/ COMMISSION/ BOARD/ INSTITUTIONS FOR CONFIDENTIAL ASSIGNMENTS

Sl. No.	Name of Universities/ Commission/ Board/ Institutions etc.
1.	Ramakrishna Mission Residential College (Autonomous) Narendrapur