Curriculum-Vitae

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Present Status: Assistant Professor in Physics in Aghorekamini Prakash Chandra Mahavidyalaya, Subhasnagar, Bengai, Hooghly.

Academic Qualification (Undergraduate Onwards):

Degree	Year	Subject	University
B.Sc	1999	Physics	The University of Burdwan
M.Sc	2001	Physics	The University of Burdwan
B.Ed	2008	Science	The University of Burdwan
Ph.D	2022	Physics	The University of Burdwan

Ph.D thesis title: Preparation of Some Photocatalytic Nanocomposite Materials for Removal of Organic Pollutants from Waste Water

Year of Award: Ph.D awarded on **17.06.2022**.

Professional Course attend:

Sl. No.	Name of the Programme	Place	Duration	Sponsoring Agency
1	94th Orientation Programme	ASC, The University of Burdwan	24.01.2014 to 20.02.2014	UGC

2	1st Refresher Course in History of Science and Technology	ASC, The University of Burdwan	30.01.2015 to 19.02.2015	UGC
3	Refresher Course in Emerging Trends in Science and Technology	ASC, The University of Burdwan	08.09.2020 to 21.09.2020	UGC
4	Refresher Course in Nano-science, Nano-technology and Application	ASC, The University of Burdwan	01.12.2022 to 14.12.2022	UGC
5	National Faculty Development Programme On "Recent Research and Advancement in Electrical and Electronics Engineering (RRAEEE 2023)"	Haldia Institute of Technology and The Institute of Electronics and Telecommunication Engineering (India), IETEBWN Sub-centre.	17.04.2023 to 21.04.2023	--

Papers presented in Conferences, Seminars, Workshops and Symposia:

Sl. No.	Title of the Paper presented	Title of Conference/ Seminar	Organized by	Whether International/ National/State/ Regional/College or University level	Date
1.	Photocatalytic studies of nanocrystalline BrookiteTiO_2 obtained by mechanical alloying of V_2O_5 and anatase TiO_2 stoichiometric mixture	Fourth International Symposium on Semiconductor Materials and Devices (ISSMD 4)	Jadavpur University	International	**08.03.2017-10.03.2017**
2.	Structural, Microstructural and Electrical Characterization of unsintered and Sintered Dy-	International "Science Seminar"	Burdwan Raj College and Indian Chemical society	International	**10.10.2017**

	Alloyed Ceria: A Comparative Study				
3.	Visible light photocatalytic study of TiO_2-CeO_2 nanocomposite synthesized by one step mechanical alloying method	2nd Regional Science and Technology Congress (western region)	The University of Burdwan and Dept. of Higher Education… (DHESTBT)	Regional	**16.11.2017-17.11.2017**
4	Enhanced Photocatalytic Activity of layered MoO_3 in removal of organic pollutant under visible light	CMDAYS-2018	Dept. of Physics, The University of Burdwan	National	**29.08.2018-31.08.2018**
5	Morphological Evaluation of Molybdenum trioxide at Different Elevated Temperature and Their Photocatalytic Activity	National Seminar on Recent Trends in Science	Burdwan Raj College	National	**16.11.2018**
6	Microstructure characterization and morphological evolution of V_2O_5-TiO_2 nanocomposites synthesized by mechanical alloying with enhanced photocatalytic activity under visible light	National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications	Dept. of Physics, The University of Burdwan	National	**16.01.2019-18.01.2019**

7	Enhanced photocatalytic performance of cauliflower like CeO_2-TiO_2 nanocomposite for the RhB degradation under visible light	CMDAYS-2021	Dept. of Physics, Central University of Jharkhand, Ranchi	National	**10.12.2021-12.12.2021**
8	Electrical Properties of TiO2-CeO2 Nanocomposite materials by Mechanical alloying method	International Seminar on Tools in Science	A.K.P.C. Mahavidyalaya	International	**25.06.2022**

Publications:

Sl. No.	**Tit of the Topic**	**Name of The Journal**	**Vol. No. & page No.**	**ISSN/ISBN/DOI**	**Name of the Authors**
1	MHD Stagnation- Point Flow and Heat Transfer of Nanofluid Over a Shrinking Surface	*Journal Of Nanoscience and Nanoengineering*	Vol.1 No.4,2015, page 183-192	1533-4889	Samir Kumar Nandy, *Rajib Kumar Mandal*
2	Photocatalytic studies of nanocrystalline Brookite TiO_2 obtained by mechanical alloying of V_2O_5 and anatase TiO_2 stoichiometric mixture	*Invertis Journal of Renewable Energy*	Vol. 8, No. 1, 2018, pp. 30-32,	2231-3419 (Printed) 2454-7611 (Online) 10.5958/2454-7611.2018.00005.X	*Rajib Kumar Mandal*, Samapti Kundu, Swapan Kumar Pradhan
3	Enhanced photocatalytic performance of V_2O_5-TiO_2 nanocomposites synthesized by mechanical alloying with morphological hierarchy	*New Journal of Chemistry*	43(2019) 2804-2816	ISSN 1144-0546(print) 1369-9261(Web)	*Rajib Kumar Mandal*, Samapti Kundu, Sumanta Sain, Swapan Kumar Pradhan
4	Optimized enhanced photodegradation activity of sintered	*Materials Research Bulletin*	124 (2020) 110760	ISSN: 0025-5408	*Rajib Kumar Mandal*, Swapan Kumar Pradhan

	molybdenum oxide: A morphological hierarchy in wastewater treatment				
5	Superior photocatalytic performance of mechanosynthesized Bi_2O_3–Bi_2WO_6 nanocomposite in wastewater treatment	*Solid State Sciences*	115 (2021) 106587	ISSN: 1293-2558	*Rajib Kumar Mandal*, Swapan Kumar Pradhan
6	Enhanced photocatalytic performance of cauliflower like CeO_2-TiO_2 nanocomposite for the RhB degradation under visible light	*Materials Today Proceedings*	Vol. 66, part 7, 2022 3307-3314	http://doi.org/10.1016/j.matpr.2022.06.446	*Rajib Kumar Mandal*, Swapan Kumar Pradhan

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2	Photocatalytic studies of nanocrystalline Brookite TiO_2 Obtained by mechanical alloying of V_2O_5 and anatase TiO_2 stoichiometric mixture	*Invertis Journal of Renewable Energy*	Vol.8, No.1, 2018, pp. 30-32,	https://doi.org/10.5958/2454-7611.2018.00005.X	*Rajib Kumar Mandal*, Samapti Kundu, Swapan Kumar Pradhan
3	Enhanced photocatalytic performance of V_2O_5-TiO_2 nanocomposites synthesized by mechanical alloying with morphological hierarchy	*New Journal of Chemistry (RSC)*	43(2019) 2804-2816	https://doi.org/10.1039/C8NJ05576A	*Rajib Kumar Mandal*, Samapti Kundu, Sumanta Sain, Swapan Kumar Pradhan
4	Optimized enhanced Photodegradation activity of sintered molybdenum oxide: A morphological hierarchy in wastewater treatment	*Materials Research Bulletin (Elsevier)*	124 (2020) 110760	https://doi.org/10.1016/j.materresbull.2019.110760	*Rajib Kumar Mandal*, Swapan Kumar Pradhan
5	Superior photocatalytic performance of mechano-synthesized Bi_2O_3–Bi_2WO_6 Nanocomposite in Waste water treatment	*Solid State Sciences (Elsevier)*	115 (2021) 106587	https://doi.org/10.1016/j.solidstatesciences.2021.106587	*Rajib Kumar Mandal*, Swapan Kumar Pradhan
6	Enhanced photocatalytic performance of cauliflower like CeO_2-TiO_2nanocompositeforth eRhBdegradation Under visible light	*Materials Today Proceedings (Elsevier)*	Vol.66, part7, 2022 3307-3314	https://doi.org/10.1016/j.matpr.2022.06.446	*Rajib Kumar Mandal*, Swapan Kumar Pradhan

7	Bioconvective MHD flow of Williamson nanofluid past an expandable Riga wedge in the presence of activation energy, mass suction and velocity slip	Numerical Heat Transfer, Part A: Applications (Taylor & Francis)	NA	https://doi.org/10.1080/10407782.2023.2263155	*Rajib Kumar Mandal*, Hiranmoy Maiti, Samir Kumar Nandy
8	Scrutinization of Unsteady Bio-convective Stagnation Slip Flow of Hybrid Nanofluid Past a Riga Wedge in the Presence of Activation Energy and Chemical Reaction	BioNanoScience (Springer)	Volume **14**, 1482–1501 (2024)	https://doi.org/10.1007/s12668-024-01439-4	*Rajib Kumar Mandal*, Hiranmoy Maiti, Samir Kumar Nandy
9	MoO_3-WS_2-g-C_3N_4 nanocomposite as an efficient photocatalyst for different dye degradation under visible light irradiation	Research on Chemical Intermediates (Springer)	Volume 50, pages 4065–4083, (2024)	https://doi.org/10.1007/s11164-024-05355-w	*Rajib Kumar Mandal*