

Curriculum vitae (CV)

Name: **Debasish Aich**

Designation: **Assistant Professor**

Department: **Physics**

Mobile No: **9609101614**

Email Address: **debasish@kharagpurcollege.ac.in**

Qualification: **M.Sc., Ph.D.**

Teaching Experience: **Since December 1999**

Research Experience and Area: **Seven years during Ph.D. work. Nanoparticle-Protein interaction.**



Publications in International Journals:

Sl. No.	Title	Corresponding / Principal / Co Authors	Journal	ISSN	Indexed in	Impact Factor / CiteScore	Date of publication
1	Biocompatibility study of protein capped and uncapped silver nanoparticles on human hemoglobin Amit Kumar Bhunia <i>et al</i> 2015 <i>J. Phys. D: Appl. Phys.</i> 48(23) 235305 https://doi.org/10.1088/0022-3727/48/23/235305/meta	Co-Author	Journal of Physics D: Applied Physics	0022-3727 (Print) 1361-6463 (Online)	Web of Science Scopus	Impact Factor 3.4 CiteScore 5.9	14/05/2015
2	Synthesis and optical absorption properties of copper oxide nanoparticles for applications in transparent surface coatings and solar cells P K Samanta <i>et al</i> 2017 <i>Journal of nano- and electronic physics</i> 9(6) 06028(2pp) https://doi.org/10.21272/jnep.9(6).06028	Co-Author	JOURNAL OF NANO- AND ELECTRONIC PHYSICS	2077-6772 (Print) 2306-4277 (Online)	Scopus	CiteScore 1.2	03/09/2017
3	Dynamics of binding of lysozyme with gold nanoparticles: Corona formation and its correlation with a naked-eye-based colorimetric approach Debasish Aich <i>et al</i> 2020 <i>Nano</i> 15(1) 2050008 https://doi.org/10.1142/S1793292020500083	Principal Author	Nano	1793-2920 (Print) 1793-7094 (Online)	Science Citation Index Expanded Scopus	Impact Factor 1.2 CiteScore 2.1	31/01/2020
4	Synthesis and Characterization of Super Paramagnetic Iron Oxide Nanoparticles Debasish Aich <i>et al</i> 2020 <i>Nanoscience & Nanotechnology-Asia</i> 10(2) 123-126 https://doi.org/10.2174/2210681208666180910110114	Principal Author	Nanoscience & Nanotechnology-Asia	2210-6812 (Print) 2210-6820 (Online)	Scopus	CiteScore 1.8	01/04/2020

5	Spectroscopic Study of Interaction of Bare, Citrate Capped and BSA Capped Fe ₃ O ₄ Nanoparticles with Hemoglobin Debasish Aich et al 2020 <i>Current Materials Science</i> 13(2) 135-149 https://doi.org/10.2174/2666145413999201124125516	Principal Author	Current Materials Science	2666-1454 (Print) 2666-1462 (Online)	Scopus	CiteScore 1.2	01/09/2020
6	Inter-band Transition in Citrate Capped Marks Dodecahedral Colloidal Gold Nanoparticles Debasish Aich et al 2020 <i>Current Nanoscience</i> 16(5) 829-836 https://doi.org/10.2174/1573413715666191127115509	Principal Author	Current Nanoscience	1573-4137 (Print) 1875-6786 (Online)	Science Citation Index Expanded Scopus	Impact Factor 1.5 CiteScore 3.2	01/10/2020
7	Synthesis and characterization of star shaped α -Fe ₂ O ₃ /Au nanocomposites Debasish Aich et al 2021 <i>Materials Today: Proceedings</i> 43(2) 1154-1159 https://doi.org/10.1016/j.matpr.2020.08.608	Principal Author	Materials Today: Proceedings	2214-7853 (Online)	Scopus	CiteScore 3.2	01/01/2021
8	Sensitivity Enhancement in the Colorimetric/Spectroscopic Determination of Lysozyme Concentration in Nanomolar Level with Colloidal Citrate Capped Au@Ag Core-shell Nanoparticles Debasish Aich et al 2021 <i>Nanoscience & Nanotechnology-Asia</i> 11(4) 98-111 https://doi.org/10.2174/2210681210999200728114038	Principal Author	Nanoscience & Nanotechnology-Asia	2210-6812 (Print) 2210-6820 (Online)	Scopus	CiteScore 1.8	01/08/2021

Attended/Presented Paper in Seminar/Workshop/Webinar:

Sl. No.	Seminar / Workshop / Webinar	Date(s)	Organised by	Attended / Presented paper	Title of the presented Paper	Type of presentation
	Vidyasagar-Satyendranath Bose National Workshop 2019 on Experimental Horizon in Physics (EHP-2019)	19/01/2019 – 22/01/2019	Department of Physics, Vidyasagar University	Presented paper	Synthesis, Characterisation and some biological applications of gold nanoparticles	Oral
	International Conference on Nanotechnology (ICNT 2015)	19/02/2015 – 22/02/2015	Department of Chemical Engineering, Haldia Institute of Technology and Haldia Regional Centre, Indian Institute of Chemical Engineers	Presented paper	Synthesis and characterisation of Iron on	Poster
	International Conference on engineering & Physical Sciences (ICEPS - 2015)	13/02/2015 – 14/02/2015	International Multidisciplinary Research Foundation	Presented paper	Synthesis of titanium dioxide nanoparticles by a simple sol-gel method and their characterisation	Oral

Administrative responsibility:

Responsibility as	Administrative / Academic Body	Period
Member (Vidyasagar University Nominee)	Body, Seva Bharati Mahavidyalaya	May 2012 – Jun 2014
Coordinator	Students Grievance Redressal Cell	July 2018 - September 2023
Coordinator	Students Grievance Redressal Committee	Since 2018
Member	IQAC	Since October 2013
Head of the department	Department of Physics, Kharagpur College	July 2012- Jun 2014

Participation in Board of Studies:

Participation as	Board of Studies	Period
Invited Member	Board of Studies, Department of Physics, Vidyasagar University	2014 (Purpose: Syllabus Revision of UG 3 Tier Physics Honours Course)