



DR. SAMATA SAHA

OBJECTIVE

To build a successful career in the field of Research, Development & Academics.

EMPLOYMENT HISTORY

Adamas University, Kolkata	Assistant Professor (Physics Dept.) and General manager, International Relations	22.05.23-till date	1 year 8 months
Kaziranga University, Jorhat, Assam	Assistant Professor (Physics Dept.)	07.01.17 to 25.09.21	4 years 8 Months
Guru Nanak Institute of Technology	Assistant Professor (Physics Dept.)	06.08.09 to 01.10.16	7 years 2 Months
Asansol Engineering College	Lecturer (Physics Dept.)	04.08.08 to 05.08.09	1year
Total			14+ years

EDUCATION

Degree	University / Board	Year
PhD (Tech)	Indian Institute of Engineering Science and Technology, Shibpur	2022
MTech (Materials Engineering)	Indian Institute of Engineering Science and Technology, Shibpur	2008
M.Sc (Applied Physics)	Annamalai University	2006
B.Sc (Honours in Physics)	Burdwan University	2001
12 th	West Bengal Council of Higher Secondary Education	1998
10 th	West Bengal Board of Secondary Education	1996

RESEARCH FUNDING

Title of the Project	Funding Agency	Duration	Amount	Status	My Role
Synthesis and characterization of novel ceramic reinforced Aluminium based metal matrix composites with enhanced properties	UGC	2years (2014-2016)	3.5 lakhs	Completed	Principal Investigator

Publications

- **Saha, Samata**, Ghosh, Manojit, Pramanick, Ashit, Mondal, Chandan, Maity, Joydeep,” Attainment of high specific hardness and specific modulus in spark plasma sintered aluminum-copper-silicon carbide-titanium carbide hybrid composite”, Material Science and Engineering Technology, Materialwissenschaft Und Werkstofftechnik , Wiley, Vol:52, 965-981, mawe.202100105.R1. [SCI\(IF:0.744\)](#)
- **Saha, Samata**, Ghosh, Manojit, Pramanick, Ashit, Mondal, Chandan, Maity, Joydeep,”. Microstructure and mechanical properties of Al/Cu/SiCp/TiCp-based hybrid composites fabricated by spark plasma sintering. J. of MateriEng and Perform, Springer, JMPEP-21-06-24467. [SCI\(IF:1.895\)](#)
- Mallar Ray, **Samata Sarkar**, Nil RatanBandyopadhyay, Syed Minhaz Hossain and Ashit Kumar Pramanick;,” *Silicon and silicon oxide core-shell nano-particles: Structural and photoluminescence characteristics*”,**Journal of Applied Physics**, vol.105, p. 074301, 2009. [SCI\(IF:2.546\)](#)
- Sajal Saha, **Samata Saha**, Asish K. Mukhopadhyay, “*Analysis of Vertical Handoff in Heterogeneous Overlay Networks*”, National Conference on Materials, Devices and Circuits in Communication Technology, Burdwan, 27-28th March 2010.
- **Samata Sarkar**, “*Intense blue-violet photo luminescence from nano crystalline silicon in silicon oxide matrix prepared by mechanical milling*” **National Seminar on Advance Nano Materials and its Applications, Jadavpur University**, 8th-9th August, 2008

PERSONAL DETAILS

DOB : 14th July 1979
Nationality : Indian.
Marital Status : Married.
Languages Known :Bengali, English and Hindi.

CONTACT ADDRESS

Permanent Address
C/O Sajal Saha
Sishu Bhaban, Manikpur

SUBJECTS TAUGHT

- **Nanomaterials: Introduction and applications.** (3rd semester, MSc Physics, Taught in The Assam Kaziranga University)
- **Materials Science** (3rd semester, MSc Physics, Taught in Adamas University)
- **Solid State Physics** (6th semester, BSc Physics, Taught in Adamas University)
- **Materials Science and Nanotechnology** (5th semester, Int. MSc Physics, Taught in The Assam Kaziranga University)
- **Statistical Physics** (1st semester, MSc Physics, Taught in The Assam Kaziranga University)
- **Research Methodology and experimental techniques in physics (4 th semester, MSc Physics)** (Taught in The Assam Kaziranga University)
- **Physics of Measurements** (6th semester, Int. MSc Physics, Taught in The Assam Kaziranga University)
- **Introduction to statistical Mechanics** (4th semester, Int. MSc Physics, Taught in The Assam Kaziranga University)
- **Atomic Physics** (5th semester, Int. MSc Physics, Taught in The Assam Kaziranga University)
- **Radiation Physics** (1st semester, BSc. AIT, Taught in The Assam Kaziranga University)
- **Engineering Physics** (1st year BTech student, Taught in Asansol Engineering College, Guru Nanak Institute of technology, and in The Assam Kaziranga University, Adamas University)

CONFERENCE/SEMINAR/SUMMER SCHOOL PARTICIPATED

- Completed a **3 weeks UGC sponsored refresher course on “Perspective in Physics”** at UGC academic staff college, Jadavpur University from 03.12.2012-22.12.2012 and obtained grade-A.
- Presented in the International conference on NONFERROUS METALS & MATERIAL SCIENCE, 2024 AT BISWA BANGLA CONVENTION CENTER, KOLKATA on 29- 30th March, 2024 organized by Indian Institute of Metals (IIM) Kolkata chapter.
- Attended AICTE sponsored national conference on **“Synthesis, Characterization and Simulation in Nano science and Nanotechnology- (NANOSIM’2012)”** at JIS college of Engineering on 24th -25th February 2012.
- Participated in national conference on **“Materials, Devices and Circuits in Communication Technology”** organized by Burdwan University from 27th – 28th March 2010.
- Participated and presented a research paper in a national seminar on **“Advanced Nanomaterials and its Applications”** organized by Jadavpur University from 8th – 9th August 2008.
- Completed a **short term course on “Advance Techniques on Materials Characterization – ATMC 07”** at CGCRI, Jadavpur from 29th October- 2nd November 2007.

- Participated AICTE sponsored national seminar on “**Environmental Management**” at Asansol Engineering College on 26-28 July,2007
- Participated in a national conference on **Energy & Environmental Material for Sustainable Development** organized by The **Institute of Engineers, India, School of Material Science & Engineering, BESU, and Material Research Society of India**,27th& 28th January,2007

EXTRA_CARRICULAR ACTIVITIES

- **Worked as General Manager, International Relations, Adamas University.**
- **Worked as NAAC coordinator in the department of Physics, The Assam Kaziranga University.**
- **Member of School level Library Committee in Adamas University.**
- **Worked as a mentor of the Community Club of the Assam Kaziranga University.**
- **A member of cultural committee and student’s welfare Committee in Guru Nanak Institute of Technology**
- **A member of cultural committee in Asansol Engineering College.**

Reference:

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