CURRICULUM VITAE

Ajit Biswas

Asst. Professor of Physics

Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya

Kalna Road, Purba Barddhaman,

West Bengal - 713407

D.O.B.:	**23.01.1982**
Official Address:	Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya PO-Hatgobindapur, Dist-Purba Bardhaman West Bengal, PIN- 713404, India
Personal Address:	Bagula college para, P.O.-Bagula, P.S.-Hanskhali, Dist.-Nadia, Pin-741502, West Bengal.

	Email: ajites2012@gmail.com Phone:9836750732 Orcid ID: 0000-0002-9679-4276
ACADEMIC QUALIFICATIONS:	➢ M.Sc.(2004) from The University of Calcutta, West Bengal. ➢ B.Ed.(2006) from The University of Calcutta, West Bengal
AREA OF SPECIALIZATION:	Plasma Physics.
RESEARCH INTEREST:	➢ **DENSITY FUNCTIONAL THEORETICAL (DFT) STUDY OF ELECTRICAL, OPTICAL, MAGNETIC PROPETIES OF NANOSTRUCTURES.** ➢ **APPLY THAT FOR THE DESIGN OF NANOELECTRONIC DEVICES**.
PAPER PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCE/SEMINAR:	Best paper in international seminar on "**INDUSTRY INTERACTIVE INNOVATIONS IN SCIENCE, ENGINEERING AND TECHNOLOGY- LASER AND ITS APPLICATION (I3SET 2K22)"** organized by JIS college of Engineering; December-21,2022. Title of the presented paper:" **Evidence of photocatalytic action in two-dimensional nano sheet"**
PUBLICATIONS: RESEARCH ARTICLE/PAPERS PUBLISHED IN NATIONAL/INTERNATIONAL JOURNAL.	**1. π-Stacked (C n -C 6 H 6 –Fe–C 6 H 6 –C 13-n) n=2: A spin operated thermoelectric nanodevice** **Shankar Prasad Mitra, Rinki Bhowmick, Ajit Biswas, Mausumi Chattopadhyaya, Sayantanu Koley, Sabyasachi Sen,** **Journal of Physics and Chemistry of Solids, vol. 170, page 110900, year 2022.** **JIF 3.995** **DOI: https://doi.org/10.1016/j.jpcs.2022.110900** **2. Spintronic action of C n -C 6 H 6 -Fe-C 6 H 6 -C 13-n ; n = 6: How crucial are d electrons?**

	Ajit Biswas, Shankar Prasad Mitra, Rinki Bhowmick, Dipankar Adak, Mausumi Chattopadhyaya, Sabyasachi Sen, **Journal of Molecular Structure, vol. 1277, page 134836, year 2023, JIF 3.841** **DOI: https://doi.org/10.1016/j.molstruc.2022.134836** **3. Role of d-orbital electrons in tuning multifunctional spintronic action in pi-stacked Cn-C6H6-Fe-C6H6-C13-n** **Rinki Bhowmick, Mausumi Chattopadhyaya, Shankar Prasad Mitra, Ajit Biswas, Sabyasachi Sen,** **Chemical Physics. Vol. 558, Page 111507, Year - 2022, JIF** **DOI: https://doi.org/10.1016/j.chemphys.2022.111507** **4. Evidence of half metal to insulator transition and subsequent photocatalytic action in g-C4N3@Lin =1 to 4: A systematic theoretical analysis** **Ajit Biswas, Shankar Prasad Mitra, Rinki Bhowmick, Dipankar Adak, Mausumi Chattopadhyaya, Sabyasachi Sen.** **Solid State Communications. Vol.- 389, Page – 115585, Year- 2024. JIF 2** **DOI: https://doi.org/10.1016/j.ssc.2024.115585** **5. Role of dopants in tuning spintronic features of lithium doped g-C4N3@Lin =1 to 4** **Shankar Prasad Mitra, Ajit Biswas, Souradip Dey, Utsab Roy, Rinki** **Bhowmick, Mausumi Chattopadhyaya, Tanmoy Dutta, Jit Chakraborty and Sabyasachi Sen,** **Journal of Physics: Conference Series, vol. 2286, page 012008, year 2022, JIF 0.547** **http://doi:10.1088/1742-6596/2286/1/012008**

	6. Even Odd Oscillation in Tunnelling Magneto Resistance of Transition metal doped Metallo Porphyrin systems **Rinki Bhowmick, Jit Chakraborty, Shankar Prasad Mitra, Ajit Biswas, Swarnendu Maiti,Tanmoy Dutta, Sayantanu Koley, Mausumi Chattopadhyaya and Sabyasachi Sen,** **Journal of Physics: Conference Series, vol. 2286, page 012007, year 2022, JIF 0.547** **http://doi:10.1088/1742-6596/2286/1/012007**
PROFESSIONAL DEVELOPMENT PROGRAMME:	**1**.FACULTY INDUCTION PROGRAMME (FIP2-9) organized by UGC-HRDC OSMANIA UNIVERSITY, Hyderabad, Telengana, India from 01.12.2021 to 31.12.2021 **2**.REFRESHER COURSE organized by UGC-HRDC KUMAUN UNIVERSITY, Nainital, Uttarakhand, India, from 18/09/2023 to 03/10/2023. 3.8 weeks online short-term course on "Qualitative Research Methods",from University of Amsterdam, Department of Sociology by Dr. Gerben Moerman Faculty of Social and Behavioural Sciences organized through Coursera. 4. 4 weeks online short-term course on "Physics 102 - Electric Potential and DC Circuits",from University of Rice, Department of Physics by Professor Jason H. Hafner, Faculty of Physics & Astronomy organized through Coursera. 5. 3 weeks online short-term course on "Physics 102 - AC Circuits and Maxwell's Equations",from University of Rice, Department of Physics by Professor Jason H. Hafner, Faculty of Physics & Astronomy organized through Coursera.

	6. 3 weeks online short-term course on "Physics 102 - Electric Charges and Fields",from University of Rice, Department of Physics by Professor Jason H. Hafner, Faculty of Physics & Astronomy organized through Coursera. 7. 12 weeks online short-term course on "Solid State Physics",from IIT KHARAGPUR, Department of Physics by Professor Debjani Chakraborty coordinator NPTEL, IIT Kharagpur organized through NPTEL(JAN-APR 2023). 8. 12 weeks online short-term course on "Electronic theory of Solids",from IIT KHARAGPUR, Department of Physics by Professor Debjani Chakraborty coordinator NPTEL, IIT Kharagpur organized through NPTEL(JUL-OCT 2022). 9. 12 weeks online short-term course on "Bonds & Bands in Solids", from IISc BANGALORE, Department of Physics by Professor L. Umanad coordinator NPTEL, IISc BANGALORE organized through NPTEL(JUL-OCT 2022).
TEACHING EXPERIENCE: **[UG-7 Yrs, HS-11 Yrs]**	➢ Assistant Professor, Dr B.N.D.S. Mahavidyalaya, since 23.12.2017 to till now. ➢ Assistant Teacher, Baramuragacha. S. N. Vidyamandir, from 22.06.2006 to 22.12.2017.
ADMINISTRATIVE EXPERIENCE:	➢ Governing Body Member, of Dr. B.N. Dutta Smiti Mahavidyalaya, since January 2023 to till now.
SEMINARS, CONFERENCES ATTENDED:	1.International Webinar on "COVID-19 SAGA: A GLOBAL THREAT", organized by Sidhu-Kanu-Birsha University, Purulia, India, during June 26-27,2020. 2. International Webinar on "RECENT TRENDS IN APPLIED PHYSICS" ,organized by Department of Physics, Pingla Thana Mahavidyalaya, Paschim Medinipur, West Bengal, on 26th September'2020.

	3.National Webinar on "Scientific Approaches Towards Covid-19 Pandemic", organized by IQAC & Science Department of Chandidas Mahavidyalaya, Khujitpara, Birbhum, West Bengal, on 2nd August,2020. 4. International Webinar on "ASTRONOMY IN RADIO WAVE LENGTHS", organized by Midnapur City College, Paschim Midnapur, West Bengal, India, on 29th August'2020. 5. International Webinar on "PHYSICS AND BEYOND-2020", organized by Bankura University, Bankura, West Bengal, India, on 29th August'2020.

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I am available to undertake any assignment in case of an award. I understand that any misstatement, qualification, or misrepresentation described herein may lead to my disqualification or dismissal by the client.

Ajit Biswas
Assistant Professor of Physics
Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya