

Personal Profile



1. Name: Dr. Sukla Rajak
2. Date of birth: 25.05.1986
3. Name of parents: Lt. Jitendra Nath Rajak
4. Address: (a.) Present; Soumya apartment, 5th floor, 4C-4D, B.C.Road, Rajbadi, Burdwan , 713104
(b.) Permanent; Village- Bararankua, Post- Balisai, Dist- Purba Medinipur, 721423
(c.) Official: M.U.C.Women’s College, B.C.Road, Burdwan
5. Contacts: sukla.phy@gmail.com, 9475466270
6. Religion: Hindu
7. Nationalism: Indian
8. Academic Qualifications:
- 9.

NAME OF THE EXAMINATION	BOARD	YEAR OF PASSING	SUBJECTS TAKEN	% OF MARKS
Ph.D	University of Calcutta	2024	Applied Optics and Photonics	
M. SC.	The University of Burdwan	2008	Physics (spl. Paper Electronics)	72.33
B. SC. [Hons.]	The University of Burdwan	2006	Physics (H), Math, Chem	58.5
H.S	W.B.C.H.S.E.	2003	Eng., Beng., Phy., Math, Chem., Bio Sc.	83.2
Madhyamik	W.B.B.S.E	2001	Eng., Beng., Phy.sc., Life sc., Hist., Geo., Maths.,	82.827
QUALIFIED NET LS DEC 2007, CSIR DEC 2008, GATE 2008(Rank-709),JAM(2006)				

10. National Eligibility Test qualified if any (UGC NET, UGC-CSIR NET, SET/SLET, GATE etc with year)
QUALIFIED NET LS DEC 2007, CSIR DEC 2008, GATE 2008(Rank-709), JAM(2006)
11. Research experience: Details of personal research (M.Phil./Ph.D.); Ph.D in “studies on transparent conducting oxides and transition metal nitrides as plasmonic materials”
12. Research Projects: NA
13. Paper Presentation details (State, National and International Level): Annexure I
14. Publication details other than journal: Book Chapter in “Computational Optical Biomedical Spectroscopy and

Imaging”, Chapter.9, pp.261-326, ISBN 9781482230819 by CRC Press

15. Refresher Course/Orientation Programme/Short Term Course attended:

1. NEP ORIENTATION AND SENSITIZATION Programme – 6 (19/02/24 to 28/02/24) at Malaviya Mission Teacher Training Centre, B.U.
2. Refresher Course in “Recent Advances in Science and Technology” (20/08/21 to 02/09/21) at UGC-HRDC, B.U.
3. Refresher Course in “Environmental Sciences” (14/09/2020 to 28/09/2020) at UGC HRDC , Kumaun University, Nainital, Uttarakhand
4. 94th Orientation Programme (24/01/14 to 20/02/14) at ASC, B.U.

16. Seminar/Conference/Professional development programme attended:

17. Teaching experience; School Teaching- 1 Year 10 months,
College Teaching- 14 years

18. Member on academic bodies outside college (UGBS/PGBS, etc)

19. Academic Leadership: Departmental In- Charge from 01.01.20 to 31.12.22

20. Members on different committees within college: Admission Committee, Cultural committee, Examination Committee i. Convener of Admission committee from 2017 to 2019 ii. Member of Examination and Result committee from 2019 to 2023. iii. Member of Routine committee from 2021-2023

21. Member of Academic Associations: OSI

22. Area of interest: (both in teaching and present research) Plasmonics and semiconductor Physics, Psychology and subconscious mind

23. Publication: (total no of publication with details till 31.01.2024) : Annexure II

24. Declaration (with signature and date):

Annexure I

1. “International Conference on Materials Processing and Applications” at College of Commerce, Arts & Science, Patna (01-03rd March 2023)
2. “International Seminar on Bio- Resources: Uses and Sustainable Management” at M.U.C. Women’s Collrge, Burdwan, West Bengal (9-10 February,2024)
3. “International Conference on Natural Science and Engineering for Sustainable Development” at Kazi Nazrul University, Asansol, West Bengal (06-07 March, 2024)
4. “International Conference on Philosophical Contributions of Contemporary Thinkers” at Burdwan Raj College,

Burdwan, West Bengal (15-16 March, 2024)

5. “International Web-Based Conference on Emerging Issues of the New SARS COV-2 Variant Omicron and it’s impact on Society, Economy and Culture” organized by Alipurduar University, West Bengal (28th Feb and 1st March, 2022).
 6. “International Conference on Nanotechnology (ICNT-2013)” at Haldia Regional Centre (HRC), organized by Indian Institute of Chemical Engineers (IICChE) In Association with Dept. of Chemical Engineering, Haldia Institute of Technology, ICARE Complex, HIT Campus, West Bengal (25-26 th October 2013)
 7. “Third National Seminar on Recent Trends in Condensed Matter Physics including Laser Application” at the University of Burdwan, West Bengal (05-07 March, 2013)
 8. “International Conference on Optics and Photonics” at Department of Applied Optics and Photonics, University of Calcutta (20-22 February, 2015)
 9. “XXXVII National Symposium Of Optical Society Of India-2013, OSI, Pondichery,(Jan 23-25, 2013).
 10. “ International Conference On Optics and Optoelectronics”, ICOL-2014, Dehradun
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- “**Computational Optical Biomedical Spectroscopy and Imaging**”, Chapter.9, pp.261-326, ISBN 9781482230819 by CRC Press

Journal Publications:

1. “Comparative study of plasmonic resonance in transparent conducting oxides: ITO and AZO”, Sukla Rajak, Mina Ray, Volume 43, pp. 231–238 (2014).
2. “Parametric influence of film thickness and incident angle on resonance spectra of pre and post- annealed Ga doped ZnO, Journal of Applied Physics, Volume 125, pp. 243105 (2019)
3. “Exploring optimization merit function based plasmonic resonance at NIR using ITO”, Jayeta Banerjee, Sukla Rajak, Mina Ray, Plasmonics, <https://doi.org/10.1007/s11468-020-01361>, Sept 2020.
4. “Promising transparent conducting oxides for plasmonic application in both IR and NIR wavelength region”, Sukla Rajak, Groteria, ISSN- 0017-2294, Volume 34, Issue 4, April 2021

5. "Highly doped metal oxides substitute the conventional metals in Recent plasmonic materials", Sukla Rajak, GIS Science Journal, Volume 8, Issue 5, May 2021