



Dr. Subarnarekha Bhattacharyya

Associate Professor

Department of Physics

Contact Information

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Biographical Sketch

Dr. Subarnarekha Bhattacharyya is Associate Professor in Physics, associated with department of Physics, The Bhawanipur Education Society College and continuing her service for past 23 years as UGC teacher. She is National Scholarship holder and had completed her B.Sc. and M.Sc. degrees from Calcutta University with first class. She acquired her Ph.D degree in experimental Physics from the same University. She has presented her research papers in numerous conferences and published research papers in reputed journals as well. She is a nature lover and is fond of music also.

Position Holding

UGC Teacher, Department of Physics, The Bhawanipur Education Society College, March 2000 – Present.

Subjects Taught

Acoustics | Heat | Electronics | Quantum Mechanics | Atomic Spectra | Laser

Research Interests

crystal growth



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Journal Publications

- “Aggregation of crystalline copper sulphate salt in a gelatin medium” Subarnarekha Bhattacharyya, Biswajit Roy and Sujata Tarafdar, *Fractals*, Vol. 25, No. 5 (2017) 1750038(1-7).
- “Pattern formation in drying drops of colloidal copper sulphate solution on glass surface” Subarnarekha Bhattacharyya, Biswajit Roy and Moutushi Dutta Choudhury, *J. Surface Sci. Technol.* vol 32(3-4), pg. 79-84, December 2016, ISSN : 0976-9420.
- “Fractals: Nature’s versatile code”, S.Bhattacharyya, *Dream 2047*, vol.18, no.9, pg. 32-34, 2016, ISSN 0972-169X.
- “Fractals”, S.Bhattacharyya, *Indian Association of Physics Teachers*, vol.8, no. 4, pg.102-105, 2016, ISSN : 2277-8950.
- “Molecular level all-optical logic with chlorophyll absorption spectrum and polarization sensitivity”, B.RayChaudhuri and S.Bhattacharyya(Bhaumik), *Applied Physics B*, vol: 91, issue 3-4, pg. 545-550, 2008 ISSN: 0946-2171.
- “Multispectral and hyperspectral analysis and Modeling of the absorbance characteristics of marine algal pigments”, B.RayChaudhuri , J.Adhikari and S.Bhaumik, *International Journal of Remote Sensing*, vol:29, issue 3,pg. 787-799, 2008 ISSN: 0143-1161.
- “Temporal change of canopy reflectance at visible wavelength as a biophysical indicator of jute (*Cortichorus capisularis* L.) growth”, B.RayChaudhuri and S.Bhattacharyya, *International Journal of Remote Sensing*, vol: 28, issue 23, pg. 5237-5253, 2007 ISSN: 0143-1161.
- “Fuzzy analysis of laboratory spectroscopy of vegetation for remote sensing applications”, B.Ray - Chaudhuri and S.Bhattacharyya, *International Journal of Remote Sensing*, vol:27, issue 1, pg.191-20 2006 ISSN: 0143-1161.
- “Aggregation patterns of copper sulphate salt via droplet drying: mediation by surface hydrophobicity and salt concentration” Samiul Haque, Subarnarekha Bhattacharyya, and Tapati Dutta, *The European Physical Journal E*, 44, 135(2021), ISSN: 1292-895X





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Paper Presentations At Conferences

- Paper presented in: UGC- sponsored National level seminar on 21st November 2016 Title of paper presented: Aggregation of crystalline ionic salt in a gelatin medium
- Paper presentation in: 24th West Bengal State Science & Technology Congress 2017 on 13th November 2016 Title of paper presented: Study of self-assembled patterns of CuSO_4 crystals in a drying drop
- Poster presentation in: 23rd West Bengal State Science & Technology Congress 2016 On 28th February 2016 Title of paper presented: Fractal analysis of patterns formed by drying drops of colloidal copper sulphate solution on varying substrates
- Paper presented in: Presidency University on 29/01/2016. Title of paper presented: Pattern formation in drying drops of colloidal copper sulphate solution on glass surface
- Paper presented in: UGC- sponsored State level seminar 25th April 2015, Title of Seminar: Environmental Pollution: Causes, Impacts & Control, Title of paper presented: Space Debris (source, damage and control)
- Paper presented in: UGC- sponsored National level seminar 24th April 2015, Title of Seminar: Recent Trends in Applicable Mathematics, Title of paper presented: Fractal geometry and its application

Participation In Seminars / Webinars / Workshops / Conferences

- Participated in the one-day Webinar on Online teaching and learning-strategic insight into Physics (31st August, 2020) by the Department of Physics, Ramsaday College.
- Participated in the one-day Webinar on Neutrino: The Nobel Connection (28th August, 2020) organized by the Department of Physics, The Bhawanipur Education Society College, Kolkata.
- Participated in the one-day National Webinar on Addressing Issues of Climate Change and Vector-Borne Diseases Like Dengue (22nd August, 2020) organized by the Department of Sociology and Environmental Development Committee, The Bhawanipur Education Society College, Kolkata





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- Participated in the Two-Day International Webinar on Recent Trends in Condensed Matter and Particle Physics organized by Victoria Institution (College) from 31st July-1st August, 2020
- Participated in the two days Webinar on Droplets and their Drying Patterns organised by the Department of Physics, Central University of Tamil Nadu, Thiruvarur from 29th to 30th June 2020
- Participated in the one-day webinar on Saha and His Journey to the Stars (22nd June, 2020) organized by the Department of Physics, The Bhawanipur Education Society College, Kolkata.

**Signature of the
Faculty Member**

Date: 01st September, 2022



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