

RESUME

Dr. Aftab Ansari

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Motivated to serve as a lecturer with a fondness of implementing convenient course structure that students find interesting. Well prepared in adapting to modern methods of teaching that address students' curiosity in a comprehensive manner.

Academic Qualifications

Sl. No.	Course	Year of completion	Score
1	Ph.D. in Physics <i>'Evaluation of Europium Doped Gadolinium Oxide and Orthovanadate Nanosystems and Their Biophysical Relevance.'</i> Tezpur University	2023	--
2	M.Sc. in Nanoscience and technology <i>Dissertation: Synthesis, Characterization and Biophysical Assessment of Gadolinium Oxide Nanostructures'</i> Tezpur University	2016	79 %
3	B.Sc. Physics , Dibrugarh University	2014	70 %
4	H.S. (Science) , A.H.S.E.C.	2011	64 %
5	H.S.L.C. (S.E.B.A.)	2009	75 %

Award of Eligibility

Lectureship (Physical Sciences), NET, CSIR-UGC, 2017

Work Experience

- Aug '23- continuing: Assistant Professor, Department of Physics, University of Science & Technology Meghalaya, India.**
- Nov '22 – Feb '23: PGT (Ad-hoc), KHSS, Kalktang, Arunachal Pradesh.
- July '21 - Dec '21: Part-time teacher (Physics), POTENTIAL, Tezpur, Assam.
- Dec '16 - June '17: Lecturer (Ad-hoc), Dept. of Physics, Doomdooma College.

List of Research Articles

- *Raman signature of partial zircon to scheelite-type phase conversion in GdVO₄ nanosystem due to structural disordering induced by Eu³⁺ inclusions*, **A Ansari**, D Mohanta, *Vibrational Spectroscopy*, 103802, 2025
- *Exceptional Photodegradation Efficiency of Eu³⁺:GdVO₄ Against Methylene Blue and Methyl Orange Textile Dye Mixtures*, K Ashiihrii, B Boro, **A Ansari**, *Journal of Physics: Conference Series* 2919 (1), 012011, 2024
- *γ-ray shielding effect on the time resolved orange-red phosphorescence of nanoscale gadolinium orthovanadates upon Eu³⁺ doping*, **A Ansari**, S Karmakar, G Pramanik, D Mohanta, A Saha, *Interactions* 245 (1), 129, 2024
- *Structural and XPS studies of polyhedral europium doped gadolinium orthovanadate (Eu³⁺:GdVO₄) nanocatalyst for augmented photodegradation against Congo-red*, **A Ansari**, D Mohanta, *Physica E: Low-dimensional Systems and Nanostructures* 143, 115357, 2022
- *Synthesis of salicylic acid phenylethyl ester (SAPE) and its implication in immunomodulatory and anticancer roles*, AJ Das, MK Das, SP Singh, PP Saikia, N Singh, J Islam, **A Ansari**, *Scientific Reports* 12 (1), 8735, 2022
- *Significant red-luminescence from citrate-gel and hydrothermally derived nanoscale Eu³⁺:Gd₂O₃ with alkali metal ion (Na⁺, K⁺) co-doping*, **A Ansari**, S Dey, D Mohanta, *Bulletin of Materials Science* 45 (1), 21, 3 2022
- *Exploiting valence band mapping and select blue-green and red phosphorescence decay of γ-irradiated nanoscale Eu³⁺:Gd₂O₃ below concentration quenching*, **A Ansari**, D Mohanta, A Saha, *Optical Materials* 122, 111627, 5 2021
- *Biogenic nanosized gold particles: Physico-chemical characterization and its anticancer response against breast cancer*, N Singh, MK Das, **A Ansari**, D Mohanta, P Rajamani, *Biotechnology Reports* 30, e00612, 20 2021

Book Chapters

- *Nanotechnology-Based Challenges and Scope in the Food Industry: from Production to Packaging* N Singh, M K Das, A Ramteke, P Rajamani, S C Deka, **A Ansari**, D Mohanta, A Maurya, Research Methods and Applications in Chemical and Biological Engineering 2019/7/23 187-216 CRC Press
- *Rare-earth Based Persistent Luminescence Probes, Nanoscale matter and principles for sensing and labeling applications*, **A Ansari**, D Mohanta Springer, 2023

Selected Conferences/Workshops

1. *ISNSCON 2018 6th World Congress on Nanomedical Sciences*, Jamia Hamdard and University of Delhi, Vigyan Bhawan, New Delhi, 2019
2. *International Virtual Conference on Advances in Functional Materials (AFM 2020)*, KIIT, Odisha, India.

3. *Condensed Matter Days 2018*, (CMDAYS-2018), Department of Physics, University of Burdwan, West Bengal.
4. *SCIENTIFIQUE: Research and Industrial Conclave*, 2024, IIT Guwahati, Assam

Workshops (few):

- Thematic Workshop on '*Science and engineering of materials using ion beam and gamma irradiation*' by UGC-DAE Consortium for Scientific Research, Kolkata Centre and Variable Energy Cyclotron Centre, VECC, Kolkata
- Workshop on '*Characterization of Magnetic Materials*', by UGC DAE Consortium for Scientific Research, Mumbai Centre, a NIT Nagaland, Dimapur

Additional Skills:

- Proficient in use of *Microsoft Office®* and analytical tools such as *Origin®*, *FullProf®*, *Vesta®*, etc. as well as image processing software viz *Image J®*, *Adobe Phtotoshop®*.
- Capable of handling sophisticated instruments namely *UV-Vis* spectrophotometer, Photoluminescence spectrophotometer with Time correlated single photon counting, Contact angle meter, Optical and fluorescence microscope and others.

Hobbies: Painting, Poetry, Football

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