

# Arshad Iqbal

PhD – Physics

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## Profile:

I am a diligent, energetic and ambitious person, who has cultivated a responsible approach with maturity, to deal with any given situation. Born on 1<sup>st</sup> of June, 1987, I completed my earlier studies at **Rahmania Inter College**, Maudaha. Later, went for higher studies to **Aligarh Muslim University** for my baccalaureate and masters before completing **Ph.D.** at **Integral University Lucknow**. As a learner, I have always sought for such environment, which would give me the best opportunities to improve and utilize my technical and interpersonal skills. I have always wanted to work with others on challenging projects with energetic spirit adding value to operation and expand my knowledge. I believe that I can utilize my research and teaching skills in creating an environment to foster learning. I have recently defended my Ph.D. and looking for a suitable teaching position in a reputed university to make some meaningful contribution.

**Current position:** Lab Instructor, Department of Physics, Integral University,  
Lucknow, U.P., India.  
(05-09-2022— Till date)

Lecturer Physics, VMHS Rahmania Inter College  
Maudaha, Hamirpur, U.P., India.  
(15-07-2013 — 20-05-2016)

## Academics:

Degree	Field	Institute	Division	Year
Ph.D.	Physics	Integral University Lucknow	First	2022
M. Sc.	Department of Physics	Aligarh Muslim University, India	First	2011
B. Sc. (Hons)	Department of Physics	Aligarh Muslim University, India	Second	2008
Intermediate	Science	VMHS Rahmania Inter College	First	2004
Matriculation	Science	VMHS Rahmania Inter College	First	2001

## Thesis:

**PhD Thesis:** Synthesis and Characterization of Cerium Oxide Nanoparticles and Its Applications

## Publications:

No.	Journal/Conference	Indexing
1.	Arham S. Ahmed, <b>Arshad Iqbal</b> , Adil Shafi, Faizan Abul Qais, Tanveer Ahamad, Seema Srivastava, "Enhanced Removal of Crystal Violet Dye and Anti-Biofilm Activity of Ti Doped CeO <sub>2</sub> Nanoparticles Synthesized by Phoenix Dactylifera Mediated Green Method" <a href="https://doi.org/10.1007/s10876-020-01925-1">https://doi.org/10.1007/s10876-020-01925-1</a> . Journal of Cluster Science (2020). [I. F. 3.44]	SCI
2.	<b>Arshad Iqbal</b> , Arham S. Ahmed, Nafees Ahmad, Adil Shafi, Tanveer Ahamad, Mohammad Zain Khan, Seema Srivastava, "Biogenic synthesis of CeO <sub>2</sub> nanoparticles and its potential application as an efficient photocatalyst for the degradation of toxic amido black dye" <a href="https://doi.org/10.1016/j.enmm.2021.100505">https://doi.org/10.1016/j.enmm.2021.100505</a> . Environmental Nanotechnology, Monitoring and Management (2021)	Scopus
3.	<b>Arshad Iqbal</b> , Mohd Obaidurrahman, Arham S. Ahmed, Byung-Sang Choi, Ateeq Ahmed, "Influence of Gd <sup>3+</sup> ions on structural, optical and magnetic properties of CeO <sub>2</sub> Nanoparticles: A comprehensive study" <a href="https://doi.org/10.1007/s00339-022-06371-6">https://doi.org/10.1007/s00339-022-06371-6</a> . Applied Physics A (2022). [I. F. 2.98]	SCI
4.	<b>Arshad Iqbal</b> , Tanveer Ahamad, Faizan Abul Qais, Nafees Ahmad, Adil Shafi, Arham Shareef Ahmed, Seema Srivastava, "Proficient visible-light-driven photocatalytic and anti-biofilm activity of biosynthesized CeO <sub>2</sub> -graphene oxide nanocomposites" <a href="https://DOI:10.1016/j.matchemphys.2023.127397">https://DOI:10.1016/j.matchemphys.2023.127397</a> . Materials Chemistry and Physics (2023). [I. F. 4.77]	SCI
5.	Mohd Arshad, <b>Arshad Iqbal</b> , Jhalak Gupta, Tanveer Ahamad, Mohd. Arshad, Arham Shareef Ahmed, "Biogenic synthesis of pure and Ag-doped CeO <sub>2</sub> nanoparticles and analysis of their dielectric properties" <a href="https://doi.org/10.1007/s11664-023-10461-3">https://doi.org/10.1007/s11664-023-10461-3</a> . Journal of Electronic Materials (2023). [I. F. 2.04].	SCI
6.	Nafees Ahmad, Daraksha Bano, Sabeeha Jabeen, Naseem Ahmad, <b>Arshad Iqbal</b> , Waris, Abdul Hakeem Anwer, Changyoon Jeong, "Insight into the adsorption thermodynamics, kinetics, and photocatalytic studies of Polyaniline/SnS <sub>2</sub> nanocomposite for dye removal" <a href="https://doi.org/10.1016/j.hazadv.2023.100321">https://doi.org/10.1016/j.hazadv.2023.100321</a> . Journal of Hazardous Materials Advances (2023).	SCI
7.	Nafees Ahmad, Qazi Inamur Rahman, <b>Arshad Iqbal</b> , Masoom Raza Siddiqui, Saikh Mohammad Wabaidur, Naseem Ahmad, Frederic Coulon, "Design of novel Sb <sub>2</sub> S <sub>3</sub> /Polythiophene heterojunction for efficient adsorption and methanol sensing" <a href="https://doi.org/10.1016/j.seppur.2024.127826">https://doi.org/10.1016/j.seppur.2024.127826</a> . Separation and Purification Technology (2024). [I. F. 8.6].	Scopus
8.	Jhalak Gupta, Tanveer Ahamad, <b>Arshad Iqbal*</b> , Green chemistry approach for the synthesis of Cr <sub>x</sub> Cu <sub>1-x</sub> O nanoparticles: An investigation of the structural and dielectric properties.	—

	<a href="https://doi.org/10.1016/j.jallcom.2024.177037">https://doi.org/10.1016/j.jallcom.2024.177037</a> . Journal of Alloys and Compounds (2024). [I. F. 5.8].	
9.	Tahira Khatoon, <b>Arshad Iqbal*</b> , Metal Oxide-rGo (Reduced Graphene Oxide) Nanocomposites synthesis for Electrode materials of Sodium Ion Battery: A review. ( <a href="#">Communicated</a> ).	—
10.	<b>Arshad Iqbal</b> , Tahira Khatoon, RFeO <sub>3</sub> (R = Y, La, Ce) synthesis for the enhancement of life span of Sodium Ion Batteries. ( <a href="#">Communicated</a> ).	—

Name of Conference/Workshop/Forum/Symposium	Place (City & Country)	Date
Presented paper at National Conference on Emerging Trends in Non-Conventional Energy Resources (ETNCER-16).	Lucknow, India	October 22, 2016
Presented poster at National Conference on Recent Trends in Materials Science and Spectroscopy (RTMS-19).	Aligarh Muslim University, Aligarh, India	02-03 March 2019.
Presented paper at International Conference on Emerging Technologies: Micro to Nano (ETMN 2021).	Manipal University Jaipur, India	October 08-09, 2021
Presented paper at International Conference on Recent Advancements in Materials, Design and Manufacturing (ICRAMDM-2022) held at Aligarh Muslim University, Aligarh, India (December 10, 2022).	Aligarh Muslim University, Aligarh, India	December 10, 2022

### Book/Book Chapter:

- “Carbon Dots in Humidity sensing, pH sensing and nitro explosives detection” Nafees Ahmad, Daraksha Bano, **Arshad Iqbal**, Abdul Rahman Khan, and Mohammad Shahadat\* DOI: [10.1021/bk-2024-1465.ch009](https://doi.org/10.1021/bk-2024-1465.ch009) (ACS Book, December 2023).
- “Green carbon dots in food analysis” **Arshad Iqbal**, Nafees Ahmad, Tahira Khatoon, Mohsin Vahid Khan, Mohd Arshad, Shamoona Ahmad Siddiqui, Naseem Ahmad, Mohammad Shahadat\*, and Mangla Joshi DOI: [10.1021/bk-2025-1506.ch009](https://doi.org/10.1021/bk-2025-1506.ch009) (ACS Book, April 2025).
- “Nanomaterials for the removal of dyes from Wastewater” Arshad Iqbal, Naseem Ahmad, Nafees Ahmad\* ([Communicated](#))

### Co-curricular Activities:

- Technical Committee Member, Fiesta-2021, **IUL, India**
- Participated in several cultural and academic activities held at **National and International Universities**.
- **Organized** “ZEPHYR”—An Open University Literary and Cultural Fest in **AMU**.

## Computational Skills:

- Crystallographic structure and structural parameters by Rietveld refinement using Fullprof. software packages.
- Well versed in Gaussian, Material studio, and VASP software packages.

## References:

- Dr. Seema Srivastava  
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