

Md. Zahid Hasan

PERSONAL INFORMATION

Address: Assistant Professor
Department of Physics
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QUALIFICATIONS

Date Started:	September 2022	Date Completed:	June 2025
Academic Qualification:	Master of Philosophy in Physics		
University/ Institution:	Department of Physics, Chittagong University of Engineering & Technology, Chattogram-4349.		
Country:	Bangladesh		
Results:	3.52 out of 4 (90% = 4)		
Positions:	1 st among 22 students		

Date Started:	January 2018	Date Completed:	February 2020
Academic Qualification:	Master of Science in Physics		
University/ Institution:	Department of Physics, Jagannath University, Dhaka.		
Country:	Bangladesh		
Results:	3.90 out of 4		
Positions:	2 nd among 72 Students		

Date Started:	February 2013	Date Completed:	January 2018
Academic Qualification:	Bachelor of Science with Honor's in Physics		
University/ Institution:	Department of Physics, Jagannath University, Dhaka		
Country:	Bangladesh		
Results:	3.84 out of 4		
Positions:	1st among 100 Students		

RESEARCH OUTPUTS

Research Articles Published in Peer-Reviewed Journals

1. **M. Zahid Hasan**, Sinthia Binte Kholil, D.R. Sarker and M. Nure Alam Abdullah, 2022, "Potential Description of $\alpha+^{208}\text{Pb}$ Elastic Scattering". *Physics of Particles and Nuclei*, 53, 303-311. DOI: <https://doi.org/10.1134/S1063779622020885>.
2. **M. Zahid Hasan**, Sinthia Binte Kholil, and M. Nure Alam Abdullah, 2024, "Optical model potential analysis of $\alpha+^{208}\text{Pb}$ elastic scattering using non-monotonic and single-folded potentials". (Under Review in *European Physical Journal A*)
3. **M. Zahid Hasan**, M. H. Haq, M. A. Ali, M.M. Hossain and M.M. Uddin, 2024, "Structural, Optical and Photocatalytic Efficacy of Ti_3C_2 and M_2C (M=Ti, V, Cr, Nb) MXenes Materials Synthesized by Etching Technique". *AIP Advances*, Accepted 13/2/2025 DOI: <https://doi.org/10.1063/5.0251436>.
4. Shaiful Kabir, **M. Zahid Hasan**, Debashis Das, Muhammad Raihan and Aleya Begum 2024, "Estimation of Lifetime Attributable Risks (LARs) of Cancer associated with Chest Computed Tomography (CT) Imaging Procedure", *Progress in medical physics*, 36, 1, March,2025. DOI: <https://doi.org/10.14316/pmp.2025.36.1.1>.
5. M. A. Rahman, **M. Z. Hasan**, S. S. Syed, M. I. A. Tanim, C. Talukder, S. Wazed, N. Jahan, U. Ahmed, M. M. Hossain, M. M. Uddin, M. A. Ali "Synthesis and study of photo-catalytic activity and DFT study of optoelectronic properties of $\text{La}_2\text{CrFeO}_6$ ", (Under Review)

Conference Presentations (Selected)

1. **M. Z. Hasan**, M. M. Hossain, M. A. Ali, N. I. Khan and M. M. Uddin, “Efficient MXenes photocatalysts for the organic dye degradation under UV and solar light synthesized by etching technique” International Conference on Physics – 2024 organized by Bangladesh Physical Society.
2. **M. Z. Hasan**, M. N. A. Abdullah, “Non-monotonic potential description of $\alpha+^{208}\text{Pb}$ elastic Scattering” 5th international conference on Physics for sustainable development & technology-2023.
3. **M. Z. Hasan**, M. N. A. Abdullah, “Non-monotonic potential description of $\alpha+^{208}\text{Pb}$ elastic Scattering” International Conference on Physics – 2020 organized by Bangladesh Physical Society.

RELEVANT PROFESSIONAL ACTIVITIES

Date Started: 17th April 2025
Position Title: Assistant Professor (Full-time) in Physics, Dept. of Physics
Organization: Chittagong University of Engineering & Technology, Chattogram-4349, Bangladesh
Research relevant tasks/duties: Teaching and Research

Date Started: 19th December 2021	Date Completed: 16th April 2025
Position Title: Lecturer (Full-time) in Physics, Dept. of Physics	
Organization: Chittagong University of Engineering & Technology, Chattogram-4349, Bangladesh	
Research relevant tasks/duties: Teaching and Research	

Date Started: 26th February 2020	Date Completed: 19th December 2021
Position Title: Lecturer (Full-time) in Physics	

Organization: Navy Anchorage School & College

Research relevant tasks/duties: **Teaching**

SCHOLARSHIPS, AWARDS AND PRIZES

Awards, Fellowship and Scholarships

- **National Science and Technology (NST) Fellowship from July 2019 to June 2020** Based on academic achievement and research proposal, Ministry of Science and Technology, Government of the People's Republic of Bangladesh
- **Jagannath University Merit Scholarship 2013-2020**, Based on academic performance in each year.

Other Academic Projects

- "Potential Description of $\alpha+^{208}\text{Pb}$ Elastic Scattering", NST Project, Ministry of Science and Technology, People's Republic of Bangladesh.
- "Studies of structural, Photocatalysis and shielding properties of MXene materials synthesized by etching Technique". DRE project, Chittagong University of Engineering & Technology, Bangladesh.

Volunteering and Membership

- Joint Member Secretary: International Conference on Physics for Sustainable Development and Technology, CUET-2025, 2023 and 2022 respectively.
- Life Time Member: Bangladesh Physical Society
- Volunteer: Bangladesh Physics Olympiad

REFEREES

REFEREE #1

Name:	Dr. Md. Mohi Uddin
Position:	Professor, Department of Physics
Organization:	Chittagong University of Engineering & Technology (CUET), Chittagong, Bangladesh
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REFEREE #2

Name:	Dr. Md. Nure Alam Abdullah
Position:	Professor and Chairman, Department of Physics
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