

MD. SHORIFUDDOZA

Lecturer, Department of Physics, Pabna University of science and Technology, Pabna-6600, Bangladesh.

House 383/1 (Meghdip), Ward 8
Muslim Academy Road,
Kazihata, Rajshahi, Bangladesh.

Phone: +88 01521476142
Email: shorifuddoza@gmail.com

EDUCATION:

- M. Sc.** Department of Physics, Faculty of Science, University of Rajshahi, Rajshahi 6205.
2017-2018
Secured CGPA 3.86 out of 4.00
Supervisor: Dr. M Alfaz Uddin, Dr. A K Fazlul Haque and Dr. M Atiqur Rahman Patoary
Thesis: *A Theoretical Study of Scattering of e^- from Ytterbium Atom and Electron Impact L-Shell Ionization of Atoms.*
- B. Sc.** Department of Physics, Faculty of Science, University of Rajshahi, Rajshahi 6205.
2013-2016
Secured CGPA 3.64 out of 4.00
- H. S. C.** Higher Secondary School Certificate (HSC) in science
April 2012
Rajshahi Govt. City College under Board of Intermediate and Secondary Education
Rajshahi, Rajshahi.
Secured GPA 5.00 out of 5.00
- S. S. C.** Secondary School Certificate (SSC) in science
February 2010
Rajshahi Govt. Model School and College under Board of Intermediate and Secondary
Education Rajshahi, Rajshahi.
Secured GPA 5.00 out of 5.00

TEACHING EXPERIENCES:

Pabna University of Science and Technology, Pabna 6600

February 4, 2020 – February 3, 2022

Lecturer

Department of Physics

Graduate Courses	PHY 5101: Advanced Nuclear Physics	(2020 – 2022)
	PHY 5109: Reactor Physics and Nuclear Technology	(2020 - 2021)
Undergraduate Courses	PHY 2101: Heat and Thermodynamics	(2020 - 2022)
	PHY 2201: Classical Mechanics	(2020 – 2022)
	PHY 3102: Quantum Mechanics – I	(2020 - 2021)
	PHY 3104: Radiation and Statistical Mechanics	(2020 - 2022)
	PHY 3105: Physics Lab - 3A	(2020 - 2022)
	PHY 3205: Physics Lab - 3B	(2020 - 2022)

GRANT EXPERIENCES:**Pabna University of Science and Technology, Pabna, Bangladesh**

URG (2020 - 2021). University Research Grant. Scattering of electrons and positrons from H₂O. BDT 64,000.

RESEARCH ACTIVITIES:**Refereed Journal Articles (total 10, h-index 3, i10-index 0 and citation 26)**

1. Nira Akter, M. Nure Alam Abdullah, **M. Shorifuddoza**, M. Atiqur R. Patoary, M. Masum Billah, Mahmudul H. Khandker, M. Maaza, Hiroshi Watabe, A. K. F. Haque and M Alfaz Uddin. *Theoretical study of e[±]-NH₃ scattering. Submitted to Mol. Phys.*
2. M. Mousumi Khatun, M. M. Haque, M. Atiqur R. Patoary, **M. Shorifuddoza**, Mahmudul H. Khandker, A. K. Fazlul Haque, Hiroshi Watabe, M. Alfaz Uddin. *Theoretical study of e[±] scattering by Au atom. Results Phys. 29, 104742 (2021).*
3. R. Hassan, M. N. A. Abdullah, **M. Shorifuddoza**, Mahmudul H. Khandker, M. A. R. Patoary, M. M. Haque, Pretam K. Das, M. Maaza, M. Masum Billah, A.K.F. Haque, M. Alfaz Uddin. *Scattering of e[±] off Silver Atom over the Energy Range 1 eV-1 MeV. Eur. Phys. J. D 75, 204 (2021).*
4. M. Masum Billah, Mahmudul H. Khandker, **M. Shorifuddoza**, M. A. Sayed, H. Watabe, A. K. F. Haque, M. Alfaz Uddin. *Theoretical Investigations of e[±]-CO scattering. J. Phys. B: At. Mol. Opt. Phys. 54, 095203 (2021) .*
5. R. Hassan, M. M. Haque, A. K. F. Haque, **M. Shorifuddoza**, Mahmudul H. Khandker, M. Atiqur R. Patoary, A. K. Basak, M. Maaza, B. C. Saha, M. Alfaz Uddin. *Relativistic study on the scattering of electrons and positrons from atomic iron at energies 1 eV – 10 keV. Mol. Phys. 119, e1849838 (2020).*
6. **M. Shorifuddoza**, Pretam. K. Das, Raihan Kabir, A. K. F. Haque and M. Alfaz Uddin. Angular distributions and critical minima in the elastic scattering of electron by atomic copper. *Int. J. Quantum Chem. 121 (2020) e26460.*
7. **M. Shorifuddoza**, Mahmudul H. Khandker, A. K. Fazlul Haque, Hiroshi Watabe, and M. Alfaz Uddin. *Theoretical investigation of the elastic scattering of e[±] by the ions of nitrogen isonuclear series. Phys. Scr. 95 (2020) 085403.*
8. Sanjida Afroz, M. M. Haque, A. K. Fazlul Haque, D. H. Jakubassa-Amundsen, M. Atiqur R. Patoary, **M. Shorifuddoza**, Mahmudul H. Khandaker, M. Alfaz Uddin. *Elastic scattering of electrons and positrons from ¹¹⁵In atoms over the energy range 1 eV - 0.5 GeV. Results Phys. 18 (2020) 103179.*
9. **M. Shorifuddoza**, M. Atiqur R. Patoary, D. H. Jakubassa-Amundsen, A. K. Fazlul Haque and M. Alfaz Uddin. *Scattering of e[±] from ytterbium atoms. Eur. Phys. J. D 73 (2019) 146.*
10. M. Atiqur R. Patoary, A. K. Fazlul Haque, M. Alfaz Uddin, Sanjida Sultana, **M. Shorifuddoza**, M. Monirul Haque and M. Maaza. *Electron impact L-subshell and total L-shell ionization cross-sections of atoms (Z=18-92). Phys. Scr. 93 (2018) 115401.*

Manuscript in Preparation

1. A. K. F. Haque, Mahmudul H. Khandker, M. Maaza, M Masum Billah, **M. Shorifuddoza**, Hiroshi Watabe, and M. Alfaz Uddin. Electron Stopping Power for material media over the energy range 1 eV-1 MeV.
2. **M. Shorifuddoza**, K. M. Hasan, A. K. F. Haque, M. Atiqur R. Patoary, and M. Alfaz Uddin. *Scattering of e^{\pm} from H_2O .*

Refereed Paper Presentations [Presenter indicated with "*"]

1. M. Atiqur R. Patoary*, M. Mousumi, A. K. F. Haque, D. H. Jakubassa-Amundsen, **M. Shorifuddoza**, Mahmudul H. Khandker, M. M. Haque and M. A. Uddin. *The Elastic Scattering of e^{\pm} with Gold Atoms Using Optical Potential.* International Conference on Physics - 2020, 05-07 March 2020.
2. Joydeb Bormon*, P. K. Das, M. Alfaz Uddin, **M. Shorifuddoza**, Laboni Khatun and Rashedul Haq. *Electron and Positron Scattering by Alkali Atoms Li and Cs.* International Conference on Physics - 2020, 05-07 March 2020.
3. **M. Shorifuddoza***, M. Atiqur R. Patoary, A. K. F. Haque, and M. A. Uddin. *Theoretical Study of the Critical Minima and Maximum Spin Polarization in the Elastic e^{\pm} Scattering by the Ytterbium Atom.* National Conference on Physics - 2019, 07-09 February 2019.
4. M. Atiqur R. Patoary*, **M. Shorifuddoza**, A. K. F. Haque, and M. A. Uddin. *Ionization Cross Sections of M-shell and M-subshell by Electron Impact.* National Conference on Physics - 2019, 07-09 February 2019.
5. **M. Shorifuddoza***, M. Atiqur R. Patoary, A. K. F. Haque, and M. A. Uddin. *The Elastic Interaction of Electron with Ytterbium Atoms Using a Complex Optical Potential.* International Conference on Physics - 2018, 08-10 March 2018.

Proceedings

1. K. F. Haque, **M. Shorifuddoza**, M. Atiqur R. Patoary, and M. Alfaz Uddin. *Scattering of e^{\pm} from H_2O .* [J. Phys.: Conf. Ser. 1412 \(2020\) 182004.](#)
2. M. Atiqur R. Patoary, **M. Shorifuddoza**, A. K. F. Haque, M. Alfaz Uddin. Ionization cross-sections of L-shell and L-subshell by electron impact. [J. Phys.: Conf. Ser. 1412 \(2020\) 152008.](#)

SCHOLARSHIPS, FELLOWSHIPS, HONORS AND AWARDS

2018-2019 National Science and Technology Fellowship from Ministry of National Science and Technology, People's Republic of Bangladesh. BDT 54,000.

MENTORING, ADVISING, and SUPERVISING**Graduate Project Supervisor/Co-Supervisor****Undergraduate Project Supervisor/Co-Supervisor**

PROFESSIONAL DEVELOPMENT**Courses, Workshops, Intersessions and other Trainings**

November 2021	Technological Aspects of AES-2006 (VVER-1200). Development of Nuclear Curricula on VVER Technology
November 2021	Nuclear and Radiological Emergency Preparedness at BAEC
February 2021	Reactor Engineering Course
June 2019	Effective Teaching and Faculty Development
October 2017	Atomic Astrophysics with Computational Methods Using SUPERSTRUCTURE and R-matrix Codes

PERSONAL ATTRIBUTES:

- Able to work in a fast-paced environment and under stressed conditions.
- Systematic in work and self-motivated, capable to take risk.
- Quick learner and have zeal of learning new things.
- Have passion of working and collaborating with people, team player.
- Possess strong organizational abilities.
- Hard-worker and dedicated to responsibility.
- Strong desire to lead an honest life with dignity.
- Cross-cultural communication skills.

SKILLS:

Latex	Zoom
Origin	FORTRAN
MS Office	Social Media

LANGUAGES:

Bangla
English