

Md. Saidul Islam

saidul.islam@bcsir.gov.bd; saidulislam0712@gmail.com; Mobile: +8801674921302

[ORCID](#); [Google Scholar](#)

Office: Industrial Physics Division, BCSIR Dhaka Laboratories
Bangladesh Council of Scientific & Industrial Research (BCSIR)
Dr. Qudrat-I-Khuda Road, Dhaka-1205, Bangladesh

Education

M. Sc. in Electrical and Electronic Engineering University of Dhaka, Dhaka, Bangladesh	2017
B. Sc. in Electrical and Electronic Engineering University of Dhaka, Dhaka, Bangladesh	2015

Professional Experience

Scientific Officer

Industrial Physics Division, BCSIR Dhaka Laboratories
Bangladesh Council of Scientific & Industrial Research (BCSIR)

November, 2021 to Present

Technical Skill and Competences

Electrical Characterizations: Source Measure Unit (SMU) (Keithley), Precision Impedance Analyzer (Agilent), Nanovoltmeter (Keithley), Picoammeter (Keithley)

Opto-electronic Characterizations: I-V Characteristics, Photovoltaic Characteristics, Hall Effect measurement

Electrochemical Characteristics: Photo-electrochemical Workstation (Potentiostat & Galvanostat) (Autolab)

Special Skill: Device & Instrument Design and Automation

Computational Skills

Analytical Software: Nova, ZView, ImageJ, Origin, MS Excel

Programming: Python (tkinter, tensorflow, Numpy, Matplotlib etc.), C++

Operating System: Windows, Linux

Research Grants (Selected)

Associate Investigator	Fabrication of Barium Titanate based materials for multilayer ceramic capacitor application, MoST SAP 2023-2024, BDT 250,000
------------------------	--

Publications (Selected)

- Islam S, Molla MR, Khatun N, Tanvir NI, Hakim M, Islam MS. Exploring the effects of zirconium doping on barium titanate ceramics: structural, electrical, and optical properties. *Materials Advances*. 2025 Jan 24; 6(4):1403-1413.
- Nazia K, Goni MO, Islam MS, Shaikh MAS, Farhad SFU, Al-Mamun M, Alam MS, Tanvir NI, Hossain MS, Paul T, Islam S. Impact of lanthanum ions on structural, morphological, magnetic, optical and electrical properties of Cobalt-Zinc ferrites. *Journal of Magnetism and Magnetic Materials*. 2025 Feb 15; 614:172740.
- Naher MI, Tanvir NI, Bitu NA, Khatun N, Islam S, Islam MS, Shaikh MAS, Farhad SFU. Structural, morphological, optical, and electrochemical studies of α -Bi₂O₃ and CuBi₂O₄ photocathode materials. *MRS Advances*. 2024 Sep 17; 9: 1649–1657.
- Habib MS, Farhad SFU, Tanvir NI, Alam MS, Bitu MNA, Islam MS, Islam S, Khatun N, Hossain MS, Shaikh MAS. Fabrication and Characterization of Graphene-Barium Titanate-Graphene Layered Capacitors by Spin Coating at Low Processing Temperatures. *ECS Journal of Solid State Science and Technology*. 2023 Sep 14; 12: 093006.
- Islam MS, Farhad SFU, Islam MS, Tanvir NI, Islam S. A LED-based Functional Light Source for the Characterization of Thin Film Solar Cells. *IEEE Explore*. 2023 Apr 24.

Patent

- A Portable Light Source with Variable Wavelength, Intensity and Illumination Period, Bangladesh Patent Serial No. 1007011, 27/10/2025.

Process

- A Process for the Production of a Light Source with Variable Intensities and Illumination Periods Using Alterable LED of Different Wavelengths from UV to NIR Region, 25/09/2022

Conference Presentations (Selected)

- Oral Presentation in Centennial Celebration of Bose-Einstein Statistics: A Legacy of Dhaka, Senate Bhaban, University of Dhaka, Dhaka-1000
- Oral Presentation in BCSIR Congress-2023, BCSIR Campus, Dhaka-1205
- Oral Presentation in BCSIR Congress-2022, BCSIR Campus, Dhaka-1205
- Oral Presentation in ICEPSD-2022, University of Dhaka, Dhaka-1000
- Poster Presentation in BPS-2012, Atomic Energy Center, Dhaka-1000

Trainings

Professional

- Cyber Security, NAPD, 2024.
- Special Foundation Training Course, NAPD, 2023.

Training on Scientific Instrumentation (Selected)

- Training Course on Nanoparticle Size Analyzer with Zeta Potential, BCSIR, 2025.
- Training Program on BET Sorptometer, BCSIR, 2023
- Training Course on Operation and Maintenance of Photo-Electrochemical Workstation with Frequency Response Analyzer, BCSIR, 2023.
- Training Course on Operation and Maintenance of Programmable Logic Controller (PLC), BCSIR, 2023.

References

Available upon request

Last Updated: Thursday, 19 February, 2026