

Curriculum vitae



1. Name: Dr. Md. Al-Mamun

2. Official Address: Principal Scientific Officer, Materials Science Division,
Atomic Energy Centre Dhaka-1000, Bangladesh Atomic Energy Commission, Dhaka, Bangladesh

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<https://www.researchgate.net/profile/Md-Al-Mamun-11>

Research Area :(Please see the related publications)

1. Radiation Dosimetry
2. Radioactive waste management: Separation of radionuclide from waste or unconventional sources.
3. Radiation shielding
4. Use of carbon based nano materials in structural composite materials, photo catalysis, dye degradation, heavy metal adsorption for the remediation of environmental pollution.

3. Educational Qualification

Degree	Institute	Course	Result
Post.doc	Uppsala University Sweden Materials science Division, Atomic Energy Centre Dhaka-1000	Materials Science (Fund: International Science Programme)	1 year (2019)
PhD	University of Cambridge, UK	Material Sciences and Metallurgy	Awarded
MS	University of Dhaka, Bangladesh	Applied Chemistry and Chemical Technology	First class (A+)
BSc	University of Dhaka, Bangladesh	Applied Chemistry and Chemical Technology	First class (A+)
H.S.C	Cantonment College Jessore	Science	First class
S.S.C	Zilla School Jessore	Science	First class

4. Professional Experience

Job Title	Principal Scientific Officer
Dates from/to	From 24th December, 2020 to present
Employer's Name	Bangladesh Atomic Energy Commission
Description of Duties	1.Synthesis and investigation of the thermoluminescent(TL) properties of rare earth doped glass materials for the application in radiation dosimetry. 2.Synthesis of Carbon based nano materials, like CNTs, GO, RGO, CQD etc., and it's use in nuclear waste management . 3.Preparation of thin films for gas sensing application . 4.Use of carbon based nano materials in structural composite materials, photo catalysis, dye degradation, heavy metal adsorption etc.

Job Title	Senior Scientific Officer
Dates from/to	From March , 2017 to December, 2020
Employer's Name	Bangladesh Atomic Energy Commission
Description of Duties	1. Synthesis of Carbon nano materials, like CNTs, GO, RGO, CQD etc., and its use in nuclear waste management and others areas of materials development in nuclear field. 2. Use of carbon based nano materials photo catalysis, 3. Carbon based nano materials application in cancer therapy like Hyperthermia. 4. Biomedical application of carbon based nano materials. 5. Project Management · Training · Testing · Equipment Installation(XRD, AAS, TEM, SEM, TGA/DSC, Raman, FTIR, PPMS, Zeta Sizer etc) ·

Job Title	PhD Student in the department of Materials Science & Metallurgy, UK
Dates from/to	From Oct 2012 - Mar 2017
Employer's Name	University of Cambridge, United Kingdom.
Description of Duties	1. Working on non-lead-based shielding material made of carbon nanotubes and epoxy matrix. 2. Working on the interaction of beta radiation and carbon nanotubes which can generate electric power(beta voltaic cell). 3. Catalytic Chemical Vapour deposition(CCVD) method for CNT(Vertical, thin film) synthesis.

Job Title	Senior Scientific Officer
Dates from/to	From 19th November, 2009 to October, 2012
Employer's Name	Bangladesh Atomic Energy Commission
Description of Duties	1. Production & quality control of radioisotopes and radiopharmaceuticals 2. Research & development in the field of new radioisotopes and radiopharmaceuticals 3. Production and quality control of cold kit for liver, brain, and kidney diagnosis. 4. Research and Development of PZC-based Tc-99m Generator.

Job Title	Lecturer in Chemistry(Textile Engineering)
Dates from/to	From 14th of May,2009 to 19th November,2009
Employer's Name	Daffodil International University, Dhaka, Bangladesh
Description of Duties	worked as a lecturer of Chemistry covering the courses like Polymer chemistry, textile chemistry, environmental science etc.

5. Training experiences

Duration (with dates)	Name and place of the Institution	Field/Title of training
01 June-31 August, 2010	Institute of nuclear science & Technology, Atomic energy research establishment, Savar, Dhaka, Bangladesh	Basic Nuclear Orientation Course (BNOC)
12 November 2012	Dept. of Chemistry, University of Cambridge, UK	Chemical safety
21 November 2012	University of Cambridge, UK	Safe Use of Artificial Sources of Ultraviolet Radiation.
23 January 2013	University of Cambridge, UK	Radioactive Substances: An Introduction to Suitable and Safe Use
26 February 2013	University of Cambridge, UK	Radiation Monitors and Monitoring
17-22 June 2017	Materials Science Division, Atomic Energy Centre, Dhaka	Operation and maintenance of Scanning electron microscopy (SEM)
05 days (14-18 January 201	AERE, Savar, Dhaka, Bangladesh	Follow -up Training Course (FTC) on —Environmental Radioactivity Monitoring Course
7-9 April, 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of FTIR Spectrophotometer (Trained by foreign expert)
19-22 May, 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of SEM (Trained by foreign expert)
29-31 May 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of DSC (Trained by foreign expert)
26-28 June, 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of AAS (Trained by foreign expert)
12-14 August, 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of Zeta potential measurements(Trained by foreign expert)
27-28 October 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of UV-Visible Spectroscopy (Trained by foreign expert)
27-28 November, 2018	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of Ultra-Centrifuge (Trained by foreign expert)
2018	Germany	Operation and maintenance of of Raman Spectroscopy (Trained by foreign expert)

13-19 January, 2019	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of Physical Property Measuring Machine (PPMS) (Trained by foreign expert)
16-22 March, 2019	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of X-ray diffractometer (Trained by foreign expert)
5-7 May, 2019	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of Microwave reactor (Trained by foreign expert)
13-15 May, 2019	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of High pressure reactor vessel (Trained by foreign expert)
10-25 June, 2019	Materials Science Division, Atomic Energy Centre, Dhaka	Training on testing and commissioning of Transmission Electron Microscopy (Trained by foreign expert)
30/12/24-4/01/25.	Materials Science Division, Atomic Energy Centre, Dhaka	86th training programme of NITUB on AAS.

6. Published Materials

- Hakim, M.A., Mahadi Hasan, M., Al-Mamun, M., Hossain, M.S., Zahid, A.M. and Rahman, M.H., 2026. PVDF/PGMA Blend Membranes: NIPS-Driven Microstructure, Thermodynamic Miscibility, and Enhanced Wettability. *ACS Omega*.
- Islam, S.A., Kamruzzaman, M., Siddique, F.S., Hossain, S., Al-Mamun, M. and Rahman, A.M., 2026. Precision radiation measurement: LiZnBO₃: Ce phosphor thermoluminescent properties. *Applied Radiation and Isotopes*, p.112417.
- Gobinda Mollik, Md Ifat-Al-Karim, Md Al Mamun, Tonmoy Paul, Md Rashedur Rahman, Farzana Nahid, Spinel cobalt ferrite-based reduced graphene oxide nanocomposites: Synthesis, structural, morphological, optical and thermal analysis, Results in Materials, Volume 28, **2025**, 100819, ISSN 2590-048X.
- Siddique, F.S., Sinha, K.G., Safin, S.I., Islam, S.A., Hassan, M.N., Hasnat, M.A., Hossain, S., Rahman, A.M. and Al-Mamun, M., **2025**. Exploring Dysprosium Doped Lithium Strontium Borate Based Phosphor for Dosimetry Application. *Journal of Alloys and Compounds*, p.183628.
- Nazmus Sakib, Farzana Nahid, S.F.U. Farhad, Nazia Khatun, Md Ali Rayhan, Sayed Syful Islam, Md Nur Amin Bitu, S.Manjura Hoque, Md. Al-Mamun, Significant improvement of photocatalytic activity of Bi₂₅Fe_{0.5}Ni_{0.5}O₄₀@MWCNTs Nanocomposites Synthesized by Various Hydrothermal Routes, *Ceramics International*, **2025**,
- Hassan, M.N., Yousuf, F., Rahat, M.R., Muktedir, M.S., Hossain, S., Razzak, M., Hamd, Z.Y., Khandaker, M.U., Rahman, A.K.M. and Al-Mamun, M., **2025**. Exploring the effect of Zn doping on the thermoluminescence behavior of lithium magnesium borate. *Journal of Radiation Research and Applied Sciences*, 18(3), p.101787.
- Alam, A.K.M.M., Cai, Q., Manir, M.S., Islam, M.R., Fang, L., Mamun, M.A., Chowdhury, M.N.K., Cai, X., Musiol, R. and Shubhra, Q.T., **2025**. Shellac: A Sustainable Natural Bio-Resin for Emerging Biomedical and Technological Applications—Properties, Modifications, and Challenges. *Polymer Reviews*, pp.1-55.
- Rahat, M.R., Hassan, M.N., Muslima, U., Kamruzzaman, M., Hossain, S., Al-Mamun, M., Rahman, A.M. and Khandaker, M.U., **2025**. Thermoluminescence Study of Electron-Irradiated LiZnBO₃ Phosphor for Dosimetry Application. *Nuclear Engineering and Technology*, p.103832.

9. Islam, M.A., Bashar, M.S., Al-Mamun, M., Kali, K. and Rahman, M.K., 2025. Effect of Co and Sn co-doping on tailoring the properties of CuO to enhance the absorption capacity of solar absorber layers. *Journal of Materials Science: Materials in Electronics*, 36(18), pp.1-16.
10. Rahat, M.R., Mimi, H.A., Islam, S.A., Kamruzzaman, M., Hasnat, M.A., Hassan, M.N., Hossain, S., Osman, H., Mahmoud, M., Khandaker, M.U. and Al-Mamun, M., 2025. Optimized LiZnBO₃ phosphor as a promising candidate for low dose radiation dosimetry. *Nuclear Engineering and Technology*, 57(6), p.103427.
11. Khatun, N., Goni, M.O., Islam, M.S., Shaikh, M.A.A., Farhad, S.F.U., Al-Mamun, M., Alam, M.S., Islamtanvir, N., Hossain, M.S., Paul, T. and Islam, S., 2025. Impact of lanthanum ions on structural, morphological, magnetic, optical and electrical properties of Cobalt-Zinc ferrites. *Journal of Magnetism and Magnetic Materials*, 614, p.172740.
12. Alam, A.M., Manir, M.S., Islam, M.R., Razzak, M., Al Mamun, M. and Shubhra, Q.T., 2025. Evolution and recent advancements of composite materials in biomaterials applications. In *Applications of Composite Materials in Engineering* (pp. 267-301). Elsevier Science Ltd.
13. Mishra, P., Aryal, S., Oli, H., Shrestha, T., Al Mamun, M., Shrestha, R.L.S. and Bhattarai, D., 2024. Enhanced Energy Storage: Electrochemical Performance of ZnCl₂-Activated Carbon Derived from Acacia catechu Bark. *Mongolian Journal of Chemistry*, 25(52), pp.26-34.
14. Manir, M.S., Islam, M.R., Al Mamun, M., Rahman, M.M., Mortuza, M.F. and Alam, A.K.M.M., 2024. Synthesis of Gamma Irradiated Cobalt Oxide Nanoparticles for Visible Light-Induced Photocatalytic Degradation of Methylene Blue Dye. *Journal of Science and Technology Research*, 6(1), pp.175-185.
15. Sakib, N., Nahid, F., Farhad, S.F.U., Khatun, N., Islam, S.S., Rayhan, M.A., Hossain, M.D., Bitu, M.N.A., Hoque, S.M. and Al-Mamun, M., 2024. Effects of nickel substitution on structural, magnetic and optical properties of Sillenite bismuth ferrite nanoparticles. *Journal of Solid State Chemistry*, 340, p.125045.
16. Islam, M.R., Manir, M.S., Razzak, M., Mamun, M.A., Mortuza, M.F., Islam, M.J., Yang, S., Pan, H., Alam, A.K.M.M. and Shubhra, Q.T., 2024. Silk-enriched hydrogels with ROS-scavenging dendrimers for advanced wound care. *International Journal of Biological Macromolecules*, p.135567.
17. Turjo, S.K.S., Hossain, M.F., Rana, M.S., Al-Mamun, M. and Ferdous, M.S., 2024. Durability and Mechanical Characteristics of Unidirectional Jute/Banana and Synthetic Fiber Reinforcement Epoxy Composite. *Hybrid Advances*, p.100232.
18. Rahman, M.M., Akter, M., Siddik, A.B., Islam, M.W., Afrin, S., Afroze, M., Khan, M., Hoque, M.A. and Al Mamun, M., 2024. Purification of waste engine oil using raw clay, acid treated clay and clay/activated charcoal. *Journal of Bangladesh Academy of Sciences*, 48(1), pp.121-134.
19. Farhad, S.F.U., Tanvir, N.I., Amin Bitu, M.N., Hossain, E., Mamun, M.A., Quddus, M.S., Alam, M.S., Moniruzzaman, M., Nandigana, P. and Panda, S.K., 2024. Conformal zinc sulfide coating of vertically aligned ZnO nanorods by two-step hydrothermal synthesis on wide bandgap seed layers for lead-free perovskite solar cells. *Nanotechnology*.
20. Awal, R., Al-Mamun, M., Jewena, N., Khandaker, J.I., Tanisa, N.Y., Ahmed, S., Shahriar, F. and Haque, M.M., 2024. Upcycling prawn shells: Chitosan-carbon nanotube nanocomposites with boosted magnetic and electrical properties. *Micro & Nano Letters*, 19(3), p.e12197.
21. Islam M. Aminul, Syed Ishtiaque M., Mamun M. Al, Hoque S. Manjura, Effect of particle size and composition on local magnetic hyperthermia of chitosan-Mg_{1-x}CoxFe₂O₄ nanohybrid, *Frontiers in Chemistry*, 12, 2024, DOI=10.3389/fchem.2024.1347423.
22. Syed Ishtiaque, Lima Sharmin Akter, Deb Nandita, Al-mamun M., Hoque Sheikh Manjura Performance evaluation of dextran-coated CaFe₁₂O₁₉/MnFe₂O₄ exchange-spring composites for the self-heating properties at radio frequency field, *Frontiers in Chemistry*, 2024, DOI=10.3389/fchem.2024.1347113.

23. Shah Azharul Islam, Md Kamruzzaman, Md Raghbir Rahat, Shahadat Hossain, H.A. Abdul-Rashid, Mayeen Uddin Khandaker, D.A. Bradley, Md Al-Mamun, A.K.M. Mizanur Rahman, LiZnBO₃ phosphor for dosimetry applications, *Radiation Physics and Chemistry*, Volume 218, 2024, 111596, ISSN0969-806X, <https://doi.org/10.1016/j.radphyschem.2024.111596>.
24. Banik, P., Anisuzzaman, M., Bhattacharjee, S., Marshall, D.J., Yu, J., Nur, A.A.U., Jolly, Y.N., Al-Mamun, M., Paray, B.A., Bappy, M.M.M. and Bhuiyan, T., 2024. Quantification, characterization and risk assessment of microplastics from five major estuaries along the northern Bay of Bengal coast. *Environmental Pollution*, 342, p.123036. Unveiling a novel enzymatic model for rice straw deconstruction. *Science of the Total Environment*, 904, p.166704.
25. Sharker, B., Islam, M.A., Hossain, M.A.A., Ahmad, I., Al Mamun, A., Ghosh, S., Rahman, A., Hossain, M.S., Ashik, M.A., Hoque, M.R. and Hossain, M.K., 2023. Characterization of lignin and hemicellulose degrading bacteria isolated from cow rumen and forest soil: Unveiling a novel enzymatic model for rice straw deconstruction. *Science of the Total Environment*, 904, p.166704.
26. Rahat, M.R., Mimi, H.A., Islam, S.A., Kamruzzaman, M., Ferdous, J., Begum, M., Hasnat, M.A., Abdul-Rashid, H.A., Muslima, U., Khandaker, M.U. and Bradley, D.A., 2023. Synthesis, characterization and thermoluminescence properties of LiCaPO₄ phosphor for ionizing radiation dosimetry. *Applied Radiation and Isotopes*, 202, p.111047.
27. Md Al-Mamun, Jinhu Chen, Marek Burda, Krzysztof K. Koziol, Phase and orientation effects in X-ray attenuation of carbonaceous epoxy composites, *Materials Chemistry and Physics*, Volume 309, 2023, 128318, ISSN0254-0584, <https://doi.org/10.1016/j.matchemphys.2023.128318>.
28. Ifat-Al-Karim, M., Al Mamun, M., Nahid, F., Ismail, M., Hoque, S.M. and Haque, M.M., 2023. Comparison of structural and antimicrobial activity between graphene oxide and reduced graphene oxide-reinforced hydroxyapatite-based nanocomposites for biomedical application. *Bulletin of Materials Science*, 46(4), p.212.
29. Hossain, M.B., Yu, J., Nur, A.A.U., Banik, P., Jolly, Y.N., Al-Mamun, M., Paray, B.A. and Arai, T., 2023. Distribution, characterization and contamination risk assessment of microplastics in the sediment from the world's top sediment-laden estuary. *Journal of Environmental Management*, 344, p.118472.
30. Hossain, M.B., Yu, J., Nur, A.A.U., Banik, P., Jolly, Y.N., Al-Mamun, M., Arai, T. and Albeshr, M.F., 2023. Microplastics in surface water from a mighty subtropical estuary: First observations on occurrence, characterization, and contamination assessment. *Environmental Research*, 226, p.115594.
31. Raja, M.M., Awal, R., Khandaker, J.I., Al-Mamun, M., Haque, M.M., Tanisa, N.Y., Farid, M.S., Hasan, S.M.S. and Meherin, S., 2023. HAP/f-MWCNTs/Cobalt Ferrites Nano Composites Synthesis and Electrical and Magnetic Performance Investigation. *Open Access Library Journal*, 10(3), pp.1-15.
32. Khatun, N., Ahmed, S., Hossain, M.S., Farhad, S.F.U., Al-Mamun, M., Alam, M.S., Begum, M.H.A., Tanvir, N.I., Hakim, M. and Islam, S., 2023. Influence of Y³⁺ and La³⁺ ions on the structural, magnetic, electrical, and optical properties of cobalt ferrite nanoparticles. *Heliyon*, 9(2).
33. Rahman, M., Shuva, Z.M., Rahman, M.A., Ahmed, N., Sharmin, A., Laboni, A.A., Khan, M., Islam, M.W., Al-Mamun, M., Roy, S.C. and Saha, J.K., 2022. Catalytic Pyrolysis of Single-Use Waste Polyethylene for the Production of Liquid Hydrocarbon Using Modified Bentonite Catalyst. *European Journal of Inorganic Chemistry*, 2022(34), p.e202200409.
34. Ahmad, A., Al Mamun, M.A., Al-Mamun, M., Huque, S. and Ismail, M., 2021. LFO Perovskites as Oxygen Carriers for Chemical Looping Oxygen Uncoupling (CLOU). *Journal of Thermal Analysis and Calorimetry*, pp.1-9
35. Khatun, N., Hossain, M.S., Begum, M.H.A., Islam, S., Tanvir, N.I., Bhuiyan, R.H. and Al-Mamun, M., 2021. Effect of sintering temperature on structural, magnetic, dielectric and optical properties of Ni–Mn–Zn ferrites. *Journal of Advanced Dielectrics*, 11(06), p.2150028.

36. Hossain, M.A.F., Al-Mamun, M., Rahman, M.R. and Hoque, S.M., 2021. Effect of in-situ growth and separate addition method in hydrothermal process on the structural and magnetic properties of CoNiFe₂O₄@ functionalized CNTs nanocomposite. *Applied Physics A*, 127, pp.1-21.
37. Azad, A.K., Abdalla, A.M., Afif, A., Azad, A., Afroze, S., Idris, A.C., Park, J.Y., Saqib, M., Radenahmad, N., Hossain, S. and Elius, I.B., 2021. Improved mechanical strength, proton conductivity and power density in an all-protonic ceramic fuel cell at intermediate temperature. *Scientific Reports*, 11(1), p.19382.
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40. Das, N.K., Farhad, S.F.U., Chakaraborty, J., Gupta, A.K.S., Dey, M., Al-Mamun, M., Matin, M.A. and Amin, N., 2020. Structural and optical properties of RF-sputtered CdTe thin films grown on CdS: O/CdS bilayers. *International Journal of Renewable Energy Research*, 10(1), pp.293-302.
41. Hossain, M.S., Akter, Y., Shahjahan, M., Bashar, M.S., Begum, M.H.A., Hossain, M.M., Islam, S., Khatun, N. and Al-Mamun, M., 2019. Influence of Ni substitution on structural, morphological, dielectric, magnetic and optical properties of Cu–Zn ferrite by double sintering sol–gel technique. *Journal of Advanced Dielectrics*, 9(02), p.1950020.
42. Hossain, M.S., Alam, M.B., Shahjahan, M., Begum, M.H.A., Hossain, M.M., Islam, S., Khatun, N., Hossain, M., Alam, M.S. and Al-Mamun, M., 2018. Synthesis, structural investigation, dielectric and magnetic properties of Zn²⁺-doped cobalt ferrite by the sol– by the sol– gel technique. *Journal of Advanced Dielectrics*, 8(04), p.1850030.
43. Md. Al-Mamun, Mubarak A. Khan, Ruhul A. Khan, Haydar U Zaman, M.Saha and S.M.F. Huque. (2010) —Preparation of Selective Ion Adsorbent by Photo curing with Acrylic and Phosphoric Acid on Jute Yarn. *Journal of Fibers and Polymers*, 11(6), 832-837.
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45. Haydar U Zaman, Md. Al-Mamun, Mubarak A. Khan and Ruhul A. Khan (2012) — Preparation of adsorbent for extracting heavy metal ions by coir yarn *Journal of Thermoplastic Composite Materials*, 26(6),820-830.
46. Haydar U Zaman, Avik Khan, Ruhul, A. Khan, Tanzina Huq, Mubarak, A. Khan, Md. Shahruzzaman, Md. Mushfequr Rahman, Md. Al-Mamun and Pinku Poddar (2010) —Preparation and Characterization of Jute Fabrics Reinforced Urethane Based Thermoset Composites: Effect of UV Radiation. *Journal of Fibers and Polymers*, 11(2), 258-265.
47. Haydar U Zaman, Mubarak A. Khan, Ruhul A. Khan, M. Arifur Rahman, Lily R. Das, and Md. Al-Mamun (2010) —Role of Potassium Permanganate and Urea on the improvement of the Mechanical Properties of Jute Polypropylene Composites. *Journal of Fibers and Polymers*, 11(3), 455-463.
48. Ruhul A. Khan, M. E. Haque, Tanzina Huq, Mubarak A. Khan, Haydar U. Zaman, Konica J. Fatema, Md. Al-Mamun, and Avik Khan. (2009) —Studies on the Relative Degradation and Interfacial Properties between Jute/Polypropylene and Jute/Natural Rubber Composites. *Journal of Thermoplastic Composite Materials*, 25(5), 665-681.
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7. Project experience:

(a) ADP project: —*Development of the Infrastructure for the Capacity Build-up of Nano and Nano-biotechnological Laboratory at Materials Science Division, Atomic Energy Centre Dhaka' during the period October 2016- June 2019.*”

Associate with the project director

(b) “*Waste management of toxic and radioactive elements by using organic-inorganic hybrid nanomaterials.*”

Principal Investigator

Funded by the Ministry of Science and Technology, Government of the people's republic of Bangladesh

(Souhct no: 39.00.0000.009.99.023.23-363, Date:18/12/2023) Funding Year: 2023-24

Project ID: SRG- 233440

(c) “*Designing High-Performance Selective Radioisotope Adsorbents for Nuclear and Medical Waste Decontamination: A Computer Simulation Approach.*” Principal Investigator

Funded by the Ministry of Science and Technology, Government of the people's republic of Bangladesh

(Souhct no: 39.00.0000.006.99.026.24-65, Date:05/03/2025) Funding Year: 2024-

25Project ID: SRG-243315

(d) “*Enhancement of Thermoluminescent Properties of Rare-Earth-Doped Borate-Based Materials for Advanced Medical Dosimetry*”

Principal Investigator

Funded by the Ministry of Science and Technology, Government of the people's republic of Bangladesh

(Grant no: 39.00.0000.000.206.99.0031.25.203, Date:19/10/2025) Funding Year: 2025-26

Project ID: SRG-256601

8. Teaching and supervision:

<i>Position</i>	<i>Dept./University</i>	<i>Subject</i>	<i>Year</i>
<i>Associate professor</i>	<i>NFE, Daffodil International University</i>	<i>Instrumental method of food analysis</i>	<i>2023 to date</i>
<i>Associate professor</i>	<i>Nuclear Engineering, MIST</i>	<i>Metrology</i>	<i>2018-2019</i>
<i>Associate professor</i>	<i>Bangladesh Open University</i>	<i>Chemistry, Nutritional biochemistry, Instrumental Analysis, Food toxicology</i>	<i>2022to date</i>

9. Scholarships:

- *Bsc, MS scholarship*
- *Islamic Development Bank Scholarship*
- *Cambridge Commonwealth Trust Scholarship*

- *Cambridge Philosophical Society Fund*
- *Royal Society of Chemistry, UK Fund*
- *Wolfson College, Cambridge Fund*

10. Supervision:

- More than 30 students from different universities like Dhaka University, Khulna University, CUET, CU, JU, NSTU, Begum Rokeya University Rangpur, Daffodil International University, MIST, BRAC University etc.
- Research collaboration with different industries like cement, pharmaceuticals, steel, Bangladesh Ordnance Factory etc.

11. Memberships:

- Member of the **Syndicate of Noakhali Science and Technology University.**
- Member of the **Syndicate of Chandpur Science and Technology University.**
- Member of the **Academic Council of Begum Rokeya University Rangpur.**
- Member of the **Academic Council of Pabna Science and Technology University.**
- Member of the **Academic Council of Chandpur Science and Technology University.**
- Bangladesh Physical Society
- Bangladesh Electronic and Informatics Society
- Bangladesh Medical Physics Association
- Royal Society of Chemistry, UK
- Materials Research Society (MRS)
- Member of the OBE based curriculum committee of the department of Applied Chemistry and Chemical Engineering, Noakhali Science and Technology University

12. Personal Information

Name	: MD. AL-MAMUN
Date of Birth	: December 10, 1982
Nationality	: Bangladeshi
Passport No.	: OC 1228766
Current Location	: Bangladesh



Name: Md. Al-Mamun