

Curriculum Vitae

(as of November 2022)



Dr. Md. Mominul Islam

Professor, Department of Chemistry		
University of Dhaka, Dhaka 1000, Bangladesh		
Mobile: +88-01947-558235; +88-01674-420640; Fax: +880-2-9667222		
E-mail: mominul@du.ac.bd & mmislam01@yahoo.com		
Editor, Bangladesh Journal of Scientific Research (BJSR), BAAS		Joint-Secretary, BAAS Council, Bangladesh Association for the Advancement of Science (BAAS)
Home page	https://www.du.ac.bd/faculty/faculty_details/CHM/115 http://www.matchemdu.edu.bd/ http://www.baasbd.org/bjsr https://www.researchgate.net/profile/Md-Islam-107 https://loop.frontiersin.org/people/1407818/overview https://scholar.google.com/citations?user=Ay6iO54AAAAJ&hl=en	
Researcher ID	Science Researcher ID: F-3783-2017	ORCID: 0000-0003-3896-6778

Biography

Dr. Md. Mominul Islam is a Professor of the Department of Chemistry, Dhaka University (DU). He completed B.Sc. and M.Sc. degrees from the same department in 1997 and 1999, respectively. In 2001, he went to Tokyo Institute of Technology (TITech), Japan for PhD degree. After finishing his PhD work in 2004, he continued research work for more than 4 years with different postdoctoral fellowships in the same laboratory of TITech. His field of specialization is electrochemistry.

Dr. Islam published 72 peer-reviewed papers (Citation: 2223, h-index 20, i10-index: 35) and five manuscripts are under review. One Japanese patent is in his credit. His first edited book "Trends in Polyaniline Research" and more than ten book chapters have been published by Elsevier, Nova Science Publishers, Springer and CRC press. He is one of the authors of Chemistry Textbook (Class IX-X) distributed by National Curriculum and Textbook Board, Bangladesh (NCTB). More than 150 abstracts on his research work have been published in the proceedings of different national and international conferences. He attended various workshops including the workshop on computational chemistry co-hosted by Gaussian.

Dr. Islam involves with several research projects supported by different organizations including TWAS, Bangladesh Govt.-World Bank-UGC, ministry of science and technology, ministry of education and Bose Centre at DU and so on. He is acting as the coordinator of the air quality monitoring and research station established at the centre for advance research in sciences (CARS), DU with the supports of Wuppertal University, Germany and Bangladesh Govt.-World Bank. Dr. Islam is the elected Joint-Secretary of Bangladesh Association for the Advancement of Science (BAAS) for the tenure of 2016-2020. He is the Editor of the Bangladesh Journal of Scientific Research (BJSR), the official journal of BAAS. He worked as a house tutor of Fazlul Huq Muslim Hall, DU and worked as the executive of managing committee (MC), Institute of Chemists and Chemical Technologists, Bangladesh (ICCTB), Bangladesh Chemical Society (BCS). He worked for the development of curriculum of chemistry textbook (class XI-XII), NCTB in 2012. He acted as secretary, joint-secretary, and convener of scientific committee of the organizing committee of several national and international conferences and Bangladesh Chemistry Olympiad organized by BCS, BCA, BAAS and some other organizations. Dr. Islam has been nominated for several prestigious awards/fellowships including Dean's award 2012 (DU), UGC award 2014, United group research award 2013, Katho science foundation award, monobusho scholarship, young research grants (Alexander von Humboldt), VBL (Japan) fellowship etc. He is the life member of BCS, Bangladesh Crystallographic Association (BCA), BAAS, Network of Instrument Technical personnel and User scientists of Bangladesh (NIITUB), DU Alumni Association, DU Chemistry Alumni Association, FH hall Alumni Association and DU Registered Graduate. He visited Japan, Germany, UK, Malaysia, China, Saudi Arabia, India and Bhutan.

Personal Information

Date of Birth	December 31, 1974
Sex	Male
Marital Status	Married
Religion	Islam
Place of Birth	Rangpur, Bangladesh
Permanent Address	Village- Madarpur, P/O.- Khejmotpur, Thana- Pirgonj, District- Rangpur
Present address	House No. C, House Tutor's Quarter, Fazlul Huq Muslim Hall, Dhaka University, Dhaka 1000.
Blood group	A ⁺ (A positive)

Educational Qualifications

<i>Name of the Degree</i>	<i>Year of Exam</i>	<i>Class/Division</i>	<i>Institute</i>
S. S. C.	1989	First	Palashbari S. M. Pilot High School, Palashbari, Gaibandha, Bangladesh
H. S. C.	1991	First	Carmichael College, Rangpur, Bangladesh
Bachelor of Science (Honours)	1997 (Exam of 1995)	First	Department of Chemistry, University of Dhaka, Bangladesh
Master of Science (Thesis group)	1999 (Exam of 1996)	First	Department of Chemistry, University of Dhaka, Bangladesh
Doctor of Engineering (Electrochemistry)	2004	Pass	Department of Electronic Chemistry, Tokyo Institute of Technology, Japan

Professional Experiences

<i>Position</i>	<i>Organization</i>	<i>Duration</i>
Professor	Department of Chemistry, University of Dhaka, Dhaka, Bangladesh	Feb. 2020 - present
Associate Professor	Department of Chemistry, University of Dhaka, Dhaka, Bangladesh	Sept. 2014 - Feb. 2020
Assistant Professor	Department of Chemistry, University of Dhaka, Dhaka, Bangladesh	Jun., 2011- Sept. 2014
Assistant Professor	Department of Chemistry, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh	Nov., 2010- Jun., 2011
Assistant Professor (in chemistry)	Department of Arts and Sciences, Ahsanullah University of Science and Technology, Dhaka, Bangladesh	Sept., 2009 – Oct., 2010
Postdoctoral Research Fellow	Department of Electronic Chemistry, Tokyo Institute of Technology, Tokyo, Japan	Oct., 2004 - Mar., 2009
Scientific Officer	Institute of Glass and Ceramics Research and Testing (IGCRT), Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh	Feb., 2000 - Sept., 2001
Research Fellow	Department of Chemistry, University of Dhaka, Dhaka, Bangladesh	Oct., 1999 - Jan., 2000

Training Program/Workshop Attended

1. Workshop on Molecular Modified Electrodes for Clean Energy Conversion, October 1, **2004**, Panasonic Center at Ariake, Tokyo, Japan.
2. Afro-Asia Workshop on Advanced Topics in Chemistry, 13-17 June, **2011**, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India.
3. Teachers' Appreciation Workshop, Bangladesh University of Engineering and Technology (BUET), 11-13 April, **2011**, Dhaka, Bangladesh.
4. Workshop on Characterization and Application of Novel Functional Materials with Emphasis on Electrochemistry, 16 February, **2012**, Department of Chemistry, University of Dhaka, Bangladesh.
5. Young Teachers Training Program, 1-6 June **2013**, Department of Chemistry, Dhaka University, Bangladesh.
6. Workshop on Preparation and Characterization of Novel Functional Materials, 31 August and 01 September, **2013**, Department of Chemistry, University of Dhaka, Bangladesh.
7. Workshop on Introduction to Gaussian: Theory and Practice, January **2014**, Delhi, India.
8. Workshops organized by NCTB on the development of curriculum and writing a book, several times during **2012**-todate.

Teaching Experiences

<i>Institute</i>	<i>Position</i>	<i>Period</i>
Department of Chemistry, University of Dhaka	Professor	Feb. 2020- till now
Department of Chemistry, University of Dhaka	Associate Professor	Sept 2014- Feb. 2020
Department of Chemistry, University of Dhaka	Assistant Professor	Jun. 2011- Sept 2014
Department of Chemistry, Bangladesh University of Engineering and Technology (BUET)	Assistant Professor	Nov. 2010- Jun 2011
Department of Arts and Science, Ahsanullah University of Science and Technology (AUST)	Assistant Professor	Sept 2009- Nov 2010
Institute of Leather Engineering and Technology, University of Dhaka	Part-time teacher	Feb. 2017-Jun 2020
National University, Gazipur	Resource Person and Instructor	Season 2015
National University, Gazipur	Resource Person and Instructor	Season 2017
National University, Gazipur	Resource Person and Instructor	Season 2019

Administrative Experiences

<i>Institute</i>	<i>Position</i>	<i>Period</i>
Fazlul Huq Muslim Hall, University of Dhaka	House Tutor	Sept 2012- Sept 2022
Fazlul Huq Muslim Hall, University of Dhaka	Assistant House Tutor	Sept 2014- Feb. 2020
M. A. Rashid Hall, BUET	Assistant Provost	Feb. 2011- Jun 2011

Research Experiences

<i>Research Institution</i>	<i>Research Project</i>	<i>Status</i>	<i>Period</i>
Department of Electronic Chemistry, Tokyo Institute of Technology, Japan	Development of Electrochemical System for Production of Clinical Grade O ₂ from Air	Teijin-TITech Postdoctoral Fellow	April 2006-Mar. 2009
Department of Electronic Chemistry, Tokyo Institute of Technology, Japan	Electrocatalytic Reduction of Molecular O ₂ for Fuel Cells Applications	Venture Business Laboratory (VBL) Postdoctoral Fellow	April 2005- Mar 2006
Department of Electronic Chemistry, Tokyo Institute of Technology, Japan	Current Oscillatory Phenomenon at HMDE	Interdisciplinary Graduate School Postdoctoral Fellow	Oct 2004- Mar 2005
Department of Electronic Chemistry, Tokyo Institute of Technology, Japan	Current Oscillatory Phenomenon at HMDE	PhD Researcher	Oct 2001- Sept 2004
Institute of Glass and Ceramics Research and Training (IGCRT), Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka	Development of Bone China Ceramics	Scientific Officer	Feb 2000- Sept 2001
	Development of High Grade Silica from Rice Husk		
Department of Chemistry, University of Dhaka	Electrochemical Studies of Organic Dyes	UGC Fellow	Aug. 1999- Feb 2000
Department of Chemistry, University of Dhaka	Development of Dye Sensitized Solar Cells	Masters Researcher	Aug. 1999- Feb 2000

Research Interests

Energy & Environment (*E&E*): New Materials and Composites, Energy Storage: Supercapacitors, Electrochemical Splitting of Water, Water Electrochemical Treatment of Saline Water and Textile Wastewaters, and Air Quality and Atmospheric Chemistry; Functionalization of Natural Fibers (Jute and Leather)

Research Supervision

- PhD Current Students (04); Completed (02), Department of Chemistry, University of Dhaka
- M. Phil. Current Students (01); Completed (02), Department of Chemistry, Bangladesh University of Engineering and Technology (Jointly Supervised -01)
- M.S. Current (03)
Completed (15), Department of Chemistry
Completed (3), Institute of Leather Engineering and Technology
Jointly supervised (5), Department of Soil, Water and Environment, University of Dhaka on Air Quality Monitoring Research, CARS, DU
- B. S. Current (06)
Completed (25), Department of Chemistry, University of Dhaka
- Research Fellow 8 fellows
- PhD Research Under International Collaboration Current PhD fellow (02) :
-University of Wuppertal, Germany -01
-University of Salerno, Italy-01

Curriculum (Syllabus) Development

<i>Institution</i>	<i>Description</i>
Department of Chemistry, Dhaka University	Undergraduate, MS, M.Phil. and PhD.
Department of Chemistry, BUET	<i>External Expert Member, BGPS</i> MS, M.Phil. and PhD.
Development of National Curriculum of the Chemistry Textbook	<i>Expert Member,</i> Curriculum for the Chemistry Textbook for the Class XI-XI, 2012
Development of National Curriculum of the Chemistry Textbook	<i>Expert Member/Reviewer,</i> Curriculum for the Science Textbook for the Class III-V, 2019
Development of National Curriculum of the Chemistry Textbook	<i>Reviewer,</i> Chemistry textbook for B.Ed. and M.Ed.
Department of Arts and Science, Ahsanullah University of Science and Technology (AUST)	<i>External Expert Member</i> Curriculum and syllabus for newly proposed M.Sc. in Chemistry degree (formed 2021)

Remarkable Contribution/Achievements

- National Contribution writing the Chemistry (Roshayan) Textbook for the class IX-X distributed in 2012 by the National Curriculum and Textbook Board (NCTB), Bangladesh.
- Development of National Curriculum of the Chemistry Textbook for the Class XI-XI, 2012.
- Establishing an air quality monitoring station and initiate air quality research at CARS, University of Dhaka by with the supports of Wuppertal University, Germany and Bangladesh Govt.-World Bank. The project has been recognized as a showcase project in the blog of World Bank: (<https://blogs.worldbank.org/endpovertyinsouthasia/tackling-air-pollution-dhaka>)
- Received special recognition in 2005 by Professor Allen J Bard (Texas, USA), a famous electrochemist, for clarifying unexplained phenomenon occurred at mercury electrode/solution interface observed in 1966.
- Science/Research related column writer for the newspaper: *The Daily Samakal*, Bangladesh
- Contributing as the editor of a scientific journal: Bangladesh Journal of Scientific Research, an official journal of Bangladesh Association for the Advancement of Sciences (BAAS) established in 1976.

Publications

○ Patent

S. Kojima, T. Ohsaka and M. M. Islam, Removal of Water from Electrolytes and Instrument for This, and Instrument for Measuring Water Content, Japanese Patent, No. 2008-180170, Filing, July 9, **2008**.

○ Theses

Ph.D. Thesis: Title: Electrochemical Streaming Phenomena at HMDE in Aprotic Solution, Tokyo Institute Technology, Japan, **2004**.

Master Thesis: Title: Photoelectrochemical Studies of Methylene Blue, University of Dhaka, Bangladesh, **1999**.

○ Books

<i>Authors</i>	<i>Title</i>	<i>Bibliographic information</i>
T. Ohsaka, A.-N. Chowdhury, M. A. Rahman and M. M. Islam (Editors)	Trends in Polyaniline Research	Nova Science Publishers, Inc., USA, 2013 , 409 pages, (ISBN: 978-1-62808-427-6). https://novapublishers.com/shop/trends-in-polyaniline-research/
W. M. Ajmotgir, M. I. Hossain, M. M. Islam and N. Khanam	Chemistry Textbook (Roshayan) for Class IX-X	National Curriculum and Textbook Board (NCTB), Bangladesh, Dhaka, 2012 .

○ **Book chapters**

<i>Authors</i>	<i>Title</i>	<i>Bibliographic Information</i>
M. Y. Pabel, M. F. Ehsan, M. S. Miran, and <i>M. M. Islam</i>	Nanocatalysts for the Photodegradation of Organic Pollutants	In the book titled “ <i>Emerging Applications of Nanomaterials</i> ” Edited by N. B. Singh, M. A. B. H. Susan, and R. G. Chaudhary, Chapter 5, Materials Research Forum LLC. (<i>In Press</i>).
U. Hasanah and <i>M. M. Islam</i>	Natural Dyes in Leather Technology	In the book titled “Renewable Dyes and Pigments” edited by Shahid ul Islam, Elsevier (Revised).
M. S. Islam, M. M. Islam, M. Hossain and <i>M. M. Islam</i>	Polymers for Toxic Waste Removal	In the book titled “Advances in Specialty Polymers: Fundamentals, Properties and Applications” edited by Ram Gupta, CRC press, (<i>In Press</i>).
M. A. Hasan, M. M. Islam and <i>M. M. Islam</i>	Non-Activated Carbon for Supercapacitor Applications	In the book titled “Biomass-Based Supercapacitors” Series edited by A Md. Abdul Aziz and Syed Shaheen Shah, Chapter 7, Wiley, (<i>In press</i>).
<i>M. M. Islam</i> and T. Ohsaka	Electrical double layer at electrode/ionic liquid interfaces	In the ‘ <i>Encyclopedia of Solid-Liquid Interfaces</i> ’, Edited by Gianlorenzo Bussetti and Klaus Wandelt 2023 . (Reference Module in Chemistry, Molecular Sciences and Chemical Engineering: https://www.sciencedirect.com/science/article/pii/B9780323856690000520?via%3Dihub
M. S. Hossain, M. Y. Pabel and <i>M. M. Islam</i>	Fenton-Like Processes for the Removal of Cationic Dyes	In the book titled “Perspectives on Advanced Oxidation Processes in Dye Wastewater” edited by A Senthilkannan Muthu and Ali Khadir, Springer, Inc., pp 29-89, 2022 . https://link.springer.com/chapter/10.1007/978-981-19-0882-8_2
M. M. Islam, M. S. Islam, M. A. B. H. Susan and <i>M. M. Islam</i>	Conjugated Polymers as the Materials for Supercapacitor Electrodes	In the book titled “Organic Electrodes: Fundamental to Advanced Emerging Applications” edited by Ram Gupta, Springer, Inc., pp. 265-287, 2022 . https://link.springer.com/chapter/10.1007/978-3-030-98021-4_15#citeas
M. S. Hossain and <i>M. M. Islam</i>	Manganese Oxides/Polyaniline Composites as Electrocatalysts for Oxygen Reduction	In the book titled “Renewable Polymers and Polymer-Metal Oxide Composites” edited by S. Haider and A. Haider, Elsevier, Chapter 2 (pp 45-77), 2022 . https://www.sciencedirect.com/science/article/pii/B9780323851558000145?via%3Dihub
<i>M. M. Islam</i> and M. S. Miran	3d Block Transition Metal-Based Catalysts for Electrochemical Water Splitting	In the book titled “Innovations in Engineered Porous Materials for Energy Generation and Storage Applications” edited by A. Balakrishnana and R. Rajagopalan, CRC press, FL, USA, Chapter 10, 2018 . https://www.routledge.com/Innovations-in-Engineered-Porous-Materials-for-Energy-Generation-and-Storage/Rajagopalan-Balakrishnan/p/book/9780367781309
<i>M. M. Islam</i> , B. N. Ferdousi, M. I. Awad, T. Ohsaka	PeroxyCitric Acid: A Potential Derivative of Citric Acid	In the book titled “Citric Acid: Synthesis, Properties and Applications” Nova Science Publishers, Inc., Chapter 10, USA, 2012 . http://www.novapublishers.org/catalog/product_info.php?products_id=23842
M. T. Alam, <i>M. M. Islam</i> and T. Ohsaka	Electrical Double Layer Structures in Room-Temperature Ionic Liquids	In the book titled “Electrochemical Properties and Applications of Ionic Liquids” edited by Angel A. J. Torriero and Muhammad J. A. Shiddiky, Nova Science Publishers, Inc., USA, Chapter 4, 2011 . http://www.novapublishers.org/catalog/product_info.php?products_id=16510

Peer-Reviewed Articles

S.L. No.	Authors	Title	Bibliographic Information	Impact factor
72	M. M. Islam, S. Ahmed, M. S. Miran, and M. A. B. H. Susan	Advances on potential-driven growth of metal crystals from ionic liquids	<i>Progress in Crystal Growth and Characterization of Materials</i> 68(4), 100580 (2022) Publisher: Elsevier, Amsterdam, Netherlands	4.077
71	M. R. Alam, J. Basak, M. M. Islam, M. Y. A. Mollah, M. M. Rahman, M. A. B. H. Susan, and M. S. Miran	Preparation and characterization of cellulose-based ZnO composites	<i>Journal of Bangladesh Chemical Society</i> , 33(2), 111-116 (2021) Publisher: Bangladesh Chemical Society, Bangladesh.	
70	G. Ara, M. M. Islam, M. Y. A. Mollah, M. M. Rahman, and M. A. B. H. Susan	Protic and aprotic ionic liquids as catalysts for Michael addition reaction: Interplay between ionic structures and physicochemical properties	<i>Journal of Bangladesh Chemical Society</i> , 34(1), 55-62 (2022) Publisher: Bangladesh Chemical Society, Bangladesh.	
69	M. A. Hasan, M. M. Islam, M. A. B. H. Susan, and M. M. Islam	Supercapacitive Behaviour of Manganese Dioxide/Tungsten Bronze Composites	<i>ECS Transactions</i> , 107 (1), 12435 (2022) Publisher: IOPScience, UK.	0.521
68	A. H. Reaz, S. Saha, C. K. Roy, M. M. Hosen, T. S. Shuvo, M. M. Islam, and S. H. Firoz	Performance Improvement of Supercapacitor Materials with Crushed 3D Structured Graphene	<i>Journal of The Electrochemical Society</i> 169(1), 010521 (2022). Publisher: IOPScience, UK.	4.316
67	A. M. M. Hasan, M. A. Hasan, A. Reza, M. M. Islam, and M. A. B. H. Susan	Carbon Dots as Nano-modules for Energy Conversion and Storage (Review article)	<i>Mat. Today Commun.</i> , 29(73), 102732 (2021). Publisher: Elsevier, Amsterdam, Netherlands	3.662
66	U. Hasanah, M. S. Miran, M. M. Rahman, and M. M. Islam	Simultaneous Reductions of Production Loss and Environmental Burden Through the Treatment of Loose Leather with Non-Toxic Manganese Dioxide Nanoparticles	<i>J. Cleaner Produc.</i> , 318, 128541(2021). Publisher: Elsevier, Amsterdam, Netherlands	11.072
65	J.-E- Gulshan, S. A. Hossain, M. E. Hossain, M. M. Islam, S. Z. Emon, A. A. Manzum, Z. B. Jashim and M. N. Huda	Seasonal Variations of Microbes in Particulate Matter Obtained from Dhaka City in Bangladesh	<i>Environ. Pollut. Bioavailab.</i> , 33(1), 122-134 (2021). Publisher: Taylor and Francis Ltd., UK	2.180
64	M. S. Hossain, A. Sahed, N. Jahan, M. Y. A. Mollah, M. A. B. H. Susan, and M. M. Islam	Micelle Core as a Nest for Residence of Molecular Oxygen– An Electrochemical Study	<i>J. Electroanal. Chem.</i> , 894, 115361 (2021). Publisher: Elsevier, Amsterdam, Netherlands	4.598
63	M. I Hossain, T. Debnath, M. Y. A. Mollah, M. A. B. H. Susan, and M. M. Islam	Highly Robust, Novel Aluminum Counter Cation-Based Monophosphate Tungsten Bronze Electrocatalysts for Oxygen Evolution in Acidic Solution	<i>RSC Advances</i> , 11, 10681–10687 (2021). Publisher: Royal Society of Chemistry, UK	4.036
62	M. B. Yeamin, M. M. Islam, A.-N. Chowdhury, and M. R. Awual	Efficient Encapsulation of Toxic Dyes from Wastewater Using Several Biodegradable Natural Polymers and Their Composites	<i>J. Cleaner Produc.</i> , 291, 125920 (2021). Publisher: Elsevier, Amsterdam, Netherlands	11.072
61	M. M. Islam, and T. Ohsaka	Model of Electrical Double Layer Structure at Semi-Metallic Electrode/Ionic Liquid Interface	<i>Electrochim. Acta</i> , 368, 137555 (2021). Publisher: Elsevier, Amsterdam, Netherlands	7.336
60	M. M. Islam, M. Y. A. Mollah, M. A. B. H. Susan, and M. M. Islam	Frontier Performance of In Situ Formed α -MnO ₂ Dispersed Over Functionalized Multi-Walled Carbon Nanotubes Covalently Anchored to a Graphene Oxide Nanosheet Framework as Supercapacitor Materials	<i>RSC Advances</i> , 10, 44884–44891 (2020). Publisher: Royal Society of Chemistry, UK	4.036

59	Z. B. Jashim, S. A. Hossain, M. E. Hossain, <i>M. M. Islam</i> , J.-E-Gulshan, and M. N. Huda	Effects of Air Borne Particulate Matter on the Plants Grown in Different Areas of Dhaka Mega City, Bangladesh: An Air Pollution Tolerance Study	<i>Environ. Claims J.</i> , https://doi.org/10.1080/10406026.2020.1858606 (2020). Publisher: Taylor and Francis Ltd., UK	0.91
58	M. R. Rahman, M. S. I. Sheikh, M. S. Miran, M. M. A. Sayeed, M. A. B. H. Susan, and <i>M. M. Islam</i>	Functionalization of Jute Fibers by Reactive Oxygen Species for Encapsulation of an Organic Dye from Aqueous Solution	<i>Bangladesh J. Sci. Res.</i> , 31-33 (2), 66–72 (2020). Publisher: Bangladesh Association for the Advancement of Science	
57	M. M. Hasan, M. N. Hasan, M. R. Awual, <i>M. M. Islam</i> , M. A. Shenashen, and J. Iqbal	Biodegradable Natural Carbohydrate Polymeric Sustainable Adsorbents for Efficient Toxic Dye Removal from Wastewater	<i>J. Mol. Liquids</i> , 319, 114356 (2020). Publisher: Elsevier, Amsterdam, Netherlands	6.633
56	M. Galib, M. M. Hosen, J. K. Saha, <i>M. M. Islam</i> , S. H. Firoz, and M. A. Rahman	Electrode Surface Modification of Graphene-MnO ₂ Supercapacitors using Molecular Dynamics Simulations	<i>J. Mol. Model.</i> , 26, 251 (2020). Publisher: Springer Nature Switzerland AG.	2.172
55	S. Sultana, M. S. Hossain, M. A. B. H. Susan, and <i>M. M. Islam</i>	Electrosorption of Heavy Metal from Aqueous Solution on Polyaniline Modified Graphite Electrode	<i>Bangladesh J. Sci. Res.</i> , 31-33(1), 1–6 (2020). Publisher: Bangladesh Association for the Advancement of Science	
54	G. Ara, M. S. Miran, <i>M. M. Islam</i> , M. Y. A. Mollah, M. M. Rahman, and M. A. B. H. Susan	1,8-diazabicyclo[5.4.0]-undec-7-ene Based Protic Ionic Liquids and Their Binary Systems with Molecular Solvents Catalyzed Michael Addition Reaction	<i>New J. Chem.</i> , 44, 13701–13706 (2020). Publisher: Royal Society of Chemistry, UK	3.925
53	M. G. Rabbani, M. Y. A. Mollah, M. A. B. H. Susan, and <i>M. M. Islam</i>	In Situ Electrodeposition of Conducting Polymer/Metal Oxide Composites on Iron Electrode for Energy Storage Applications	<i>Mat. Today: Proc.</i> , 29, 1192–1198 (2020). Publisher: Elsevier, Amsterdam, Netherlands	1.460
52	M. S. Islam, S. Lamperski, <i>M. M. Islam</i> , D. Henderson, and L. B. Bhuiyan	Temperature Dependence of Differential Capacitance in the Electric Double Layer I. Symmetric Valency 1:1 Electrolytes	<i>J. Chem. Phys.</i> , 152, 204702(1–9), (2020). Publisher: American Institute of Physics, USA	3.480
51	G. Ara, A. Rahman, M. A. Halim, <i>M. M. Islam</i> , M. Y. A. Mollah, M. M. Rahman and M. A. B. H. Susan	One-Pot Synthesis of Aprotic Ionic Liquid Through Solvent-Free Alkylation of an Organic Superbase	<i>Mat. Today: Proc.</i> , 29, 1020–1024 (2020). Publisher: Elsevier, Amsterdam, Netherlands	1.460
50	H. S. Roy, <i>M. M. Islam</i> , M. Y. A. Mollah, and M. A. B. H. Susan	Polyaniline-MnO ₂ Composites Prepared <i>In-situ</i> during Oxidative Polymerization of Aniline for Supercapacitor Applications	<i>Mat. Today: Proc.</i> , 29, 1013–1019 (2020). Publisher: Elsevier, Amsterdam, Netherlands	1.460
49	M. S. Hossain, M. Y. A. Mollah, M. A. B. H. Susan, and <i>M. M. Islam</i>	Role of In Situ Electrogenated Reactive Oxygen Species towards Degradation of Organic Dye in Aqueous Solution	<i>Electrochim. Acta</i> , 344, 136146 (2020). Publisher: Elsevier, Amsterdam, Netherlands	7.336
48	H. S. Roy, <i>M. M. Islam</i> , M. Y. A. Mollah, and M. A. B. H. Susan	Polyaniline-NiO Nanocomposites as Tunable Conducting Materials	<i>Mat. Today: Proc.</i> , 15, 380-387 (2019). Publisher: Elsevier, Amsterdam, Netherlands	1.460
47	M. S. H. Saikat, <i>M. M. Islam</i> , M. Y. A. Mollah, M. A. B. H. Susan, and M. S. Miran	Thermal and Electrochemical Properties of Protic Ionic Liquids and their Binary Mixtures with Water	<i>Mat. Today: Proc.</i> , 15, 498–503 (2019). Publisher: Elsevier, Amsterdam, Netherlands	1.460
46	G. Ara, <i>M. M. Islam</i> , M. M. Rahman, M. Y. A. Mollah, M. A. B. H. Susan,	Thin Layer Chromatography-A Tool to Investigate Kinetics of Michael Addition Reaction	<i>J. Scientific Res.</i> 10, 323–329 (2018). Publisher: Faculty of Sciences, University of Rajshahi	
45	G. Ara, <i>M. M. Islam</i> , M. M. Rahman, M. Y. A. Mollah, and M. A. B. H. Susan	Binary Systems of a Hydrophobic Aprotic Ionic Liquid and Water as Catalysts for Michael Addition Reaction	<i>J. Sci. and Tech. Res.</i> , 8(1), 12–20 (2018).	

			Publisher: Sharda University, India	
44	H. S. Roy, <i>M. M. Islam</i> , M. Y. A. Mollah and M. A. B. H Susan	Polyaniline-NiO Nanocomposites as Dielectric Materials	<i>Mat. Today: Proc.</i> , 5(7), 15267–15276 (2018). Publisher: Elsevier, Amsterdam, Netherlands	1.460
43	H. S. Roy, M. Y. A. Mollah, <i>M. M. Islam</i> , and M. A. B. H Susan	Poly(vinyl alcohol)-MnO ₂ Nanocomposite Films as UV-Shielding Materials	<i>Polym. Bull.</i> , 75, 5629–5643 (2018). Publisher: Springer Science, Germany	2.843
42	M. N. Huda, S. A. Hossain, <i>M. M. Islam</i> , M. F. Islam	Chemical and Morphological Characteristics of Particulate Matter Suspended in the Air of the Dhaka University Area of Bangladesh	<i>Open J. Air Pollution</i> , 7, 95–106 (2018). Publisher: Scientific Research Publishing	0.880
41	N. N. Nova, <i>M. M. Islam</i> , S. Ahmed, M. M. Rahman, M. Y. A. Mollah, M. A. B.H. Susan	Polyaniline-Based Composite of Non-Covalently Dispersed Multiwalled Carbon Nanotubes for Supercapacitor Electrode	<i>J. Sci. Tech. Res.</i> , 7, 11-21 (2017). Publisher: Publishing India Group	
40	L. Tashmim, T. Debnath, A. Hussain, M. M. Islam	Supercapacitive Behavior of Bismuth Vanadate Modified Graphite Electrode	<i>J. Bangladesh Chem. Soc.</i> , 29, 29–37 (2017). Publisher: Bangladesh Chemical Society	
39	M. R. Awual, N. H. Alharthi, Y. Okamoto, M. R. Karim, M. E. Halim, M. M. Hasan, M. M. Rahman, <i>M. M. Islam</i> , M. A. Khaleque, M. C. Sheikh	Ligand Field Effect for Dysprosium(III) and Lutetium(III) Adsorption and EXAFS Coordination with Novel Composite Nanomaterials	<i>Chem. Eng. J.</i> , 320, 427–435 (2017). Publisher: Elsevier, Amsterdam, Netherlands	13.273
38	S. Sultana, M. Manjum, <i>M. M. Islam</i> , M. M. Rahman, M. Y. A. Mollah, M. A. B.H. Susan	Transition from Amorphous to Crystalline State for Nickel Electrodeposited from an Ionic Liquid	<i>RSC Advances</i> , 6, 104620–104623 (2016). Publisher: Royal Society of Chemistry, UK	4.036
37	B. N. Ferdousi, <i>M. M. Islam</i> , T. Okajima, and T. Ohsaka	Exploring pKa of Peroxycitric Acid Coexisting with Citric Acid in Aqueous Solution with Voltmetric, Potentiometric and Chromatographic Approaches	<i>Int. J. Electrochem. Sci.</i> , 11, 6215–6228 (2016). Publisher: ESG, Serbia	1.765
36	<i>M. M. Islam</i> , S. Kojima, B. N. Ferdousi and T. Ohsaka	Irreversible One-Electron Reduction of Dioxygen in Ionic Liquid Containing Olefinic Substituents	<i>Int. J. Electrochem. Sci.</i> , 11, 792–803 (2016). Publisher: ESG, Serbia	1.765
35	S. Saha, M. Y. A. Mollah, M. A. B. H. Susan and <i>M. M. Islam</i>	Treatment of Wastewater Containing Organic Dyes: Recovery of Dye Adsorbed on Starch-Based Materials through Conversion of Adsorbent into Alcohol	<i>Dhaka Univ. J. Sci.</i> , 63(2), 125–130 (2015). Publisher: Faculty of Science, Dhaka University	
34	T. I. Farhana, M. Y. A. Mollah, M. A. B. H. Susan and <i>M. M. Islam</i>	Catalytic Degradation of an Organic Dye through Electroreduction of Dioxygen in Aqueous Solution	<i>Electrochim. Acta</i> , 139, 244–249 (2014). Publisher: Elsevier, Amsterdam, Netherlands	7.336
33	S. Saha, S. Sultana, <i>M. M. Islam</i> , M. M. Rahman, M. Y. A. Mollah, M. A. B.H. Susan	Electrodeposition of Cobalt with tunable morphology from Reverse Micellar Solution	<i>Ionics</i> , 20(8), 1175–1181 (2014). Publisher: Springer-Verlag GmbH Germany	2.961
32	J. J. Keya, <i>M. M. Islam</i> , M. M. Rahman, M. Y. A. Mollah, M. A. B.H. Susan	Effect of a Water Structure Modifier on the Aqueous Electrochemistry of Supramolecular Systems: Redox-Active versus Conventional Surfactants	<i>J. Electroanal. Chem.</i> , 712, 161–166 (2014). Publisher: Elsevier, Amsterdam, Netherlands	4.598
31	S. Sultana, S. Saha, <i>M. M. Islam</i> , M. M. Rahman, M. Y. Mollah, M. A. B. H. Susan	Electrodeposition of Nickel from Reverse Micellar Solutions of Cetyltrimethylammonium Bromide	<i>J. Electrochem. Soc.</i> , 160 (11), D524–D529 (2013). Publisher: The Electrochemical Society	4.316
30	M. T. Alam, J. Masud, <i>M. M. Islam</i> , T. Okajima and T. Ohsaka	Differential Capacitance at Au(111) in 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Based Room-Temperature Ionic Liquids	<i>J. Phys. Chem. C</i> , 115(40), 19797–19804 (2011). Publisher: American Chemical Society, USA	4.177

29	M. M. Islam, B. N. Ferdousi, T. Okajima and T. Ohsaka	Liquid Chromatographic Separation and Simultaneous Analyses of Peroxycitric Acid, Citric Acid and Hydrogen Peroxide Coexisting in the Equilibrium Mixture	<i>J. Chrom. Sci.</i> , 49, 40–45 (2011). Publisher: Oxford University Press, UK	1.555
28	B. N. Ferdousi, M. M. Islam, T. Okajima, L. Mao and T. Ohsaka	Enhanced Catalytic Reduction of Oxygen at Tantalum Deposited Platinum Electrode	<i>Chem. Commun.</i> , 46, 1165–1167 (2010). Publisher: Royal Society of Chemistry, UK	6.065
27	M. T. Alam, M. M. Islam, T. Okajima and T. Ohsaka	Electrical Double Layer in Mixtures of Room-Temperature Ionic Liquids	<i>J. Phys. Chem. C</i> , 113, 6596–6601 (2009). Publisher: American Chemical Society, USA	4.177
26	M. M. Islam, M. T. Alam, T. Okajima and T. Ohsaka	Electrical Double Layer Structure in Ionic Liquids: An Understanding of the Unusual Capacitance-Potential Curve at Non-Metallic Electrode	<i>J. Phys. Chem. C</i> , 113, 3386–3389 (2009). Publisher: American Chemical Society, USA	4.177
25	M. M. Islam, T. Imase, T. Okajima, M. Takahashi, Y. Niikura, N. Kawashima, Y. Nakamura and T. Ohsaka	Stability of Superoxide Ion in Imidazolium Cation-Based Ionic Liquids	<i>J. Phys. Chem. A</i> , 113, 912–916 (2009). Publisher: American Chemical Society, USA	2.944
24	M. M. Hossain, M. M. Islam, S. Ferdousi, T. Okajima, T. Ohsaka	Anodic Stripping Voltammetric Detection of Arsenic(III) at Gold Nanoparticles-Modified Glassy Carbon Electrodes Prepared by Electrodeposition in the Presence of Various Additives	<i>Electroanalysis</i> , 20, 2435–2441 (2008) Publisher: Wiley, USA	3.077
23	M. M. Islam, T. Okajima, S. Kojima and T. Ohsaka	Water Electrolysis: An Excellent Approach for the Removal of Water from Ionic Liquids	<i>Chem. Commun.</i> , 5330–5332 (2008). Publisher: Royal Society of Chemistry, UK	6.065
22	M. M. Islam and T. Ohsaka	Two-Electron Quasi-Reversible Reduction of Dioxygen at HMDE in Ionic Liquids: Observation of Cathodic Maximum and Inverted Peak	<i>J. Electroanal. Chem.</i> , 623, 147–154 (2008). Publisher: Elsevier, Amsterdam, Netherlands	4.598
21	M. T. Alam, M. M. Islam, T. Okajima and T. Ohsaka	Capacitance Measurements in a Series of Room-Temperature Ionic Liquids at Glassy Carbon and Gold Electrode Interfaces	<i>J. Phys. Chem. C</i> , 112, 16600–16608 (2008). Publisher: American Chemical Society, USA	4.177
20	M. M. Islam, M. T. Alam and T. Ohsaka	Electrical Double Layer Structure in Ionic Liquids: A Corroboration of the Theoretical Model by Experimental Results	<i>J. Phys. Chem. C</i> , 112, 16568–16574 (2008). Publisher: American Chemical Society, USA	4.177
19	M. M. Islam, T. Okajima and T. Ohsaka	In Situ CCD Video and Voltammetric Studies on Enhanced Cathodic Peak Observed during Consecutive Two One-Electron Transfer Redox Reactions at a Hanging Mercury Drop Electrode in Aprotic Solutions	<i>J. Electroanal. Chem.</i> , 618, 1–10 (2008). Publisher: Elsevier, Amsterdam, Netherlands	4.598
18	M. T. Alam, M. M. Islam, T. Okajima and T. Ohsaka	Ionic Liquids Structure Dependent Electrical Double Layer at Mercury	<i>J. Phys. Chem. C</i> , 112, 2601–2606 (2008). Publisher: American Chemical Society, USA	4.177
17	M. M. Islam and T. Ohsaka	Roles of Ion Pairing on Electroreduction of Dioxygen in Imidazolium Cation-Based Room-Temperature Ionic Liquid	<i>J. Phys. Chem. C</i> , 112, 1269–1275 (2008). Publisher: American Chemical Society, USA	4.177
16	B. N. Ferdousi, M. M. Islam, T. Okajima and T. Ohsaka	Electrochemical, HPLC and Electrospray Ionization Mass Spectroscopic Analyses of Peroxycitric Acid Coexisting with Citric Acid and Hydrogen Peroxide in Aqueous Solution	<i>Talanta</i> , 74, 1355–1362 (2008). Publisher: Elsevier, Amsterdam, Netherlands	6.556
15	M. T. Alam, M. M. Islam, T. Okajima and T. Ohsaka	Measurements of Differential Capacitance at Mercury/Room-Temperature Ionic Liquid Interfaces	<i>J. Phys. Chem. C</i> , 111, 18326–18333 (2007) Publisher: American Chemical Society, USA	4.177

14	M. M. Islam, M. T. Alam, T. Okajima and T. Ohsaka	Nonlinear Phenomena at Mercury Electrode/Room-Temperature Ionic Liquid Interfaces: Polarographic Streaming Maxima and Current Oscillation	<i>J. Phys. Chem. B</i> , 44, 12849–12856 (2007). Publisher: American Chemical Society, USA	3.466
13	B. N. Ferdousi, M. M. Islam, T. Okajima and T. Ohsaka	Electroreduction of Peroxycitric Acid Coexisting with Hydrogen Peroxide in Aqueous Solution	<i>Electrochim. Acta</i> , 53, 968–974 (2007). Publisher: Elsevier, Amsterdam, Netherlands	7.336
12	M. T. Alam, M. M. Islam, T. Okajima and T. Ohsaka	Measurements of Differential Capacitance in Room Temperature Ionic Liquid at Mercury, Glassy Carbon and Gold Electrode Interfaces	<i>Electrochem. Commun.</i> , 9, 2370–2374 (2007). Publisher: Elsevier, Amsterdam, Netherlands	5.443
11	A.-N. Chowdhury, S. Ferdousi, M. M. Islam, T. Okajima and T. Ohsaka	Arsenic Detection by Nano-Gold/Conducting Polymer-Modified Glassy Carbon Electrode	<i>Appl. Poly. Sci.</i> , 104, 1306–1311 (2007) Publisher: Wiley, USA	3.125
10	B. N. Ferdousi, M. M. Islam, M. I. Awad, T. Okajima, F. Kitamura and T. Ohsaka	Synthesis and Potentiometric Measurements of Peroxycitric Acid	<i>Electrochemistry</i> , 74, 606–608 (2006) Publisher: The Electrochemical Society of Japan, Japan	1.381
9	M. M. Islam, T. Okajima and T. Ohsaka	Eccentric Phenomena at Liquid Mercury Electrode/Solution Interfaces: Upward, Downward and Circular Motions	<i>J. Phys. Chem. B</i> , 110, 8619–8625 (2006). Publisher: American Chemical Society, USA	3.466
8	M. M. Islam, M. S. Saha, T. Okajima and T. Ohsaka	Current Oscillatory Phenomena Based on the Electrogenerated Superoxide Ion at the HMDE in Dimethylsulfoxide	<i>J. Electroanal. Chem.</i> , 577, 145–154 (2005). Publisher: Elsevier, Amsterdam, Netherlands	4.598
7	M. M. Islam, B. N. Ferdousi, T. Okajima and T. Ohsaka	A Catalytic Activity of a Mercury Electrode towards Dioxygen Reduction in Room-Temperature Ionic Liquids	<i>Electrochem. Commun.</i> , 7, 789–795 (2005). Publisher: Elsevier, Amsterdam, Netherlands	5.443
6	M. M. Islam, T. Okajima and T. Ohsaka,	Current Oscillatory Phenomena Based on the Redox Reactions at a Hanging Mercury Drop Electrode (HMDE) in Dimethyl Sulfoxide	<i>J. Phys. Chem. B</i> , 108, 19425–19431 (2004). Publisher: American Chemical Society, USA	3.466
5	M. M. Islam, T. Okajima and T. Ohsaka	In Situ Color Video Observation of Polarographic Streaming Phenomenon of an HMDE Using Electrochromic Reaction	<i>Electrochem. Commun.</i> , 6, 556–561 (2004). Publisher: Elsevier, Amsterdam, Netherlands	4.724
4	A. J. Mahmood, M. A. Jabbar, A. Salam and M. M. Islam	Adsorption of Metal Ions on an Algal Biomass (<i>Oedogonium sp.</i>) II. Effect of pH on the Adsorption of Fe(III), Zn(II), Cd(II) and Hg(II) Ions,	<i>Dhaka Univ. J. Sci.</i> , 51, 197–200 (2003). Publisher: Faculty of Science, Dhaka University	
3	A. J. Mahmood, M. M. Islam, M. A. Hasnat and A.-N. Chowdhury	Dye Sensitized Photoelectro-chemical Cells I. Indium Tin Oxide Glass / Methylene Blue Electrode System	<i>Dhaka Univ. J. Sci.</i> , 51, 39–45 (2003) Publisher: Faculty of Science, Dhaka University	
2	A. J. Mahmood, A. Salam and M. M. Islam	Adsorption of Metal Ions on an Algal Biomass (<i>Oedogonium sp.</i>) I. Adsorption Characteristics of Some Metal Ions,.	<i>Dhaka Univ. J. Sci.</i> , 50, 173–177 (2002) Publisher: Faculty of Science, Dhaka University	
1	A. J. Mahmood, M. A. Jabbar, M. A. Hasnat and M. M. Islam	Studies on Degradation of Malachite Green in Aqueous Medium I. Fenton and Photo-Fenton Processes,	<i>J. Bang. Chem. Soc.</i> , 15, 30–38 (2002) Publisher: Bangladesh Chemical Society	-

Proceedings/Extended Abstracts

7. M. S. Miran, M. Manjum, M. M. Islam, A. S. M. H. R. Nixon, M. Y. A. Mollah, M.A.B.H. Susan, Micelle-Assisted Dyeing of Cotton with Reactive Dyes, Textile Research Conference (TRC 2015), 26 December 2015, Dhaka, Bangladesh.
6. M. S. Hossain, A. S. M. H. R. Nixon, M. Y. A. Mollah, M. A. B. H. Susan, M. M. Islam, Electrochemical Approach for Treatment of Textile Effluents, Textile Research Conference (TRC 2015), 26 December 2015, Dhaka, Bangladesh.

5. M.A.B.H. Susan, M. M. Islam, M. S. Miran, M. Y. A. Mollah, Nanotechnology for Smart Textile, Textile Research Conference (TRC 2014), 16 August 2014, Dhaka, Bangladesh, p-44.
4. M. M. Islam, M. A. B. H. Susan, M. Y. A. Mollah, Electrochemical Treatment of Wastewater Containing Organic Dyes, Textile Research Conference (TRC 2014), 16 August 2014, Dhaka, Bangladesh, p-33.
3. T. Ohsaka, M. T. Alam, J. Masud, M. M. Islam and T. Okajima, Electrical Double Layer Structure in Room-Temperature Ionic Liquids, The 3rd Asian Conference on Electrochemical Power Sources (ACEPS-3), Seoul, Korea, 2008, 53-55.
2. M. M. Islam, T. Okajima and T. Ohsaka, Visualization of Streaming Phenomena at a Hanging Mercury Drop Electrode/Solution Interface and Mechanism of Current Oscillation, The 5th Asian Conference on Electrochemistry (ACEC 2005), Shanghai, China, 2005, 0-1-2.
1. M. M. Islam, T. Okajima and T. Ohsaka, Visualization of Polarographic Streaming Phenomena at a Hanging Mercury Drop Electrode, Proc. Bang. Chem. Congr. 2004, 2006, 265-270.

Popular Scientific/Research Related Topics

8. 'দেশের গবেষণাখাত ও একজন ব্যক্তি রসিক', Magazine/Souvenir, bdSTEM Foundation Fest-2020, Nov. 2021.
7. 'প্রগোদনায় শিক্ষক-শিক্ষার্থী', দৈনিক সমকাল, ২২ জুন ২০২১।
<https://samakal.com/editorial-subeditorial/article/210666261/>
6. 'বিশ্ববিদ্যালয়, গবেষণা, শিল্পপ্রতিষ্ঠান ও সমাজ একটি যৌগিক সূত্র', দৈনিক সমকাল, ১ জুন ২০২১।
<https://samakal.com/chaturango/article/210663608/>
5. 'পিএইচডি ডিগ্রি একটি অতিরিক্ত যোগ্যতার নাম!', দৈনিক সমকাল, ২০ মে ২০২১।
<https://samakal.com/chaturango/article/210562383/>
4. 'কান নিয়ে গেল চিলে', দেশের গবেষণা রসাতলে!', দৈনিক সমকাল, ১৩ এপ্রিল ২০২১।
<https://samakal.com/print/210458737/online>
3. 'বিজয়ীদের বিজয়ী দিমিত্রি মেন্ডেলিভ', বিজ্ঞান চিন্তা, প্রথম আলো, ২০১৯।
2. 'Nobel Prize in Chemistry', Souvenir, Bangladesh Chemistry Olympiad, Organized by Bangladesh Chemical Society (BCS), 2018.
1. 'Zooming in Our Atmosphere', Souvenir, Bangladesh Chemistry Olympiad, Organized by Bangladesh Chemical Society (BCS), 2017.

Research Grants

No.	Role	Project Title	Funding agency	Years of Implementation
23	PI	Development of Graphene, Polyoxometalate and Cellulose-Based Binary and Ternary Composites Materials for Supercapacitor Applications	UGC-Supported Fund of Dhaka University	Ongoing
22	Supervisor	Preparation of conducting polymer/manganese dioxide nano-composite modified electrode and its application to electrochemical degradation of dyes	Bose centre for advanced study and research in natural sciences, DU	Ongoing
21	Supervisor	Fabrication of Polyoxometalate/N-doped Carbon Quantum Dots/Manganese Dioxide Semiconducting Nanoparticles Ternary Composite Modified Graphite Electrode for Supercapacitor Application	Semiconductor Research Technology, DU	Ongoing
20	PI	Catalytic Oxygen Evolution Reaction at Magnetic Mixed Metal Oxides Modified Graphite Electrodes in Alkaline Solution	UGC	Ongoing
19	PI	Fabrication of Carbonaceous Materials Derived from Waste Leather-Based Capacitive Deionization Electrodes for the Treatment of Wastewaters	Centennial Research Grant, University of Dhaka	2021-2022
18	PI	Oxygen Evolution Reaction at Transition Metal-Based Spinel Compounds Electrocatalysts in Alkaline Medium	Ministry of Science and Technology, GoB	2020-2021

17	PI	Fabrication of metal oxides and graphene modified electrodes for catalytic splitting of water	Ministry of Science and Technology, GoB	2019-2020
16	PI	Fabrication of metal oxides and graphene modified electrodes for catalytic splitting of water	Ministry of Science and Technology, GoB	2018-2019
15	Co- PI	Fabrication of manganese dioxide/polyaniline composite-modified graphite electrode for supercapacitor applications	Ministry of Science and Technology, GoB	2017-2018
14	PI	Study on the development of electrochemical capacitors	Ministry of Science and Technology, GoB	2016-2017 & 2015-2016
13	PI	Catalytic reduction of molecular oxygen at nanocomposite materials modified electrodes for fuel cell applications	Ministry of Science and Technology, GoB	2012-2013
12	Co- PI	Ionic Liquids and Their Binary System as Green Solvent for Sustainable Environment, Financed by Ministry of Education for the years	Ministry of Education, GoB	2012-2013, 2013-2014, 2014-2015
11	Supervisor	Fabrication of graphene-polyaniline nanocomposite-based supercapacitor electrode	Semiconductor Technology Research Center, DU	2019
10	PI	Exploring the electrical double layer structure formed at gold/surfactant-based aqueous medium interface	DU-UGC	2018-2019
9	PI	Catalytic oxygen evolution reaction at graphene modified electrodes in alkaline solution	UGC	2018-2019
8	PI	Polyaniline/manganese dioxide composite modified iron electrode for supercapacitor applications	DU-UGC	2016-2017
7	PI	Electrochemical reduction of molecular oxygen in micellar solution	DU-UGC	2014-2015
6	Co-PI and Coordinator	Establishing an air quality monitoring center	HEQEP, GoB-World Bank	2012-2015
5	PI	Recovery of organic dyes adsorbed on starch-based materials through the conversion of adsorbents into useful chemicals	DU-UGC	2011-2012
4	PI	Study on low-cost, bio-degradable adsorbents for the removal of organic dyes from aqueous solution	UGC	2011-2012
3	PI	Catalytic degradation of organic dyes in aqueous solutions at conducting polymer/metal oxides nanocomposites modified electrodes	TWAS, Italy	2011-2012
2	PI	Development of polyoxometalate-based supercapacitor electrodes	Bose Centre, DU	2019-2020
1	PI	Preparation of conducting polymer/manganese dioxide nanocomposite modified electrode and its application to electrochemical degradation of dyes	Bose Centre, DU	2013-2017

Editorial Roles of Scientific Journals

- Editor: *Bangladesh Journal of Scientific Research* (BJSR), an official Journal of Bangladesh Association for the Advancement of Sciences (BAAS); www.baasbd.org/bsjr.
- Member, Editorial Panel, Journal of Science and Technology Research, Ministry of Science and Technology, GoB.

Reviewer of Scientific Journals

- | | | |
|---|--|--|
| 1. Journal of Physical Chemistry (American Chemical Society), | 2. Electrochimica Acta (Elsevier) | 3. Journal of Applied Polymer Science (Wiley) |
| 4. Polymer Bulletin (Springer) | 5. Journal of Hazardous Materials (Elsevier) | 6. Journal of Chemistry (Hindawi Publishing Corporation) |
| 7. Powder Technology (Elsevier) | 8. Journal of Modern Physics (Scientific Research) | 9. Asian Journal of Atmospheric Environment (Japan Society of Atmospheric Environment) |
| 10. Electroanalysis (Wiley) | 11. Food Science and Nutrition | 12. Iranian Polymer Journal |
| 13. Journal of Nanostructure in Chemistry | 14. Inorganic and Nano-metal Chemistry | 15. Material Science-Poland |
| 16. Polymer Composites | 17. Journal of Physics and Chemistry of Solids | 18. Dhaka University Journal of Science |
| 19. Journal of Bangladesh Chemical Society | 20. Dhaka University Journal of Biological Science | 21. Bangladesh Journal of Scientific and Industrial Research |

Organizational Activities

1. Joint Secretary, BAAS Council, Bangladesh Association for the Advancement of Science (BAAS), Bangladesh for 2015-till.
2. Executive, Management Committee, Institute of Chemists and Chemical Technologists, Bangladesh 2011-2016.
3. Joint Secretary, Organizing Committee, Bangladesh Chemical Congress 2012, Organized by Bangladesh Chemical Society.
4. Member of the Organizing Committee of the First National Conference of Bangladesh Crystallographic Association, BCA 2013 (Dhaka University, 05 December 2013).
5. Organized a Good Number of Seminars and Workshops Organized by Bangladesh Chemical Society and Institute of Chemists and Chemical Technologists, Bangladesh.
6. Have been an Active Member for Organizing Bangladesh Chemistry Olympiad 2011, 2016 and Co-Convener of the 6th Chemistry Olympiad 2016.
7. Member of the Organizing Committee of the 16th Asian Chemical Congress, 16-19 March 2016, Dhaka, Bangladesh.
8. Organized Mobile Chemistry Laboratory during Chemistry Olympiad 2012, 2016, 2017.
9. Member of the Organizing Committee of the Second National Conference of Bangladesh Crystallographic Association, BCA 2014.
10. Member of the Organizing Committee of the Third National Conference of Bangladesh Crystallographic Association, BCA 2015.
11. Secretary, Organizing Committee of the Fifth Conference of Bangladesh Crystallographic Association, BCA 2018.
12. Convener, Scientific Committee of the Sixth Conference of Bangladesh Crystallographic Association, BCA 2019.
13. Secretary, Organizing Committee of the Fifth Conference of Bangladesh Crystallographic Association, BCA 2018.
14. Co-convener, Scientific Committee, Conference on Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019) organized by Forest and Environment Affairs, 2019.
15. Member, Scientific Committee, International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021), 2021 organized by BCSIR, Dhaka.
16. Convener, Scientific Committee, Symposium on 'Nanotechnology and Innovations for 4IR in Asia-Pacific and Beyond' organized by bdSTEM Foundation, 2021.
17. Co-convener, Scientific Committee, International Conference on Environmental Protection for Sustainable Development (ICEPSD-2022) organized by Forest and Environment Affairs, 2022.

Awards/Fellowships/Recognitions

- 10) UGC Gold Medal (Physical Sciences), University Grants Commission (UGC) of Bangladesh, **2014**.
- 9) United Group Research Award (**2013, 2014**), Paper Award, Dhaka, Bangladesh.
- 8) Dean's Award 2012 (Book Category), Faculty of Science, Dhaka University, Dhaka; Year: **2013**.
- 7) Young Researcher Grants, Alexander von Humboldt Foundation, Wuppertal University, Germany; Year: Nov., **2012**.
- 6) Joint Fellowship (Teijin Pharma-Tokyo Tech-Japan Govt.), Tokyo Tech, Japan; Year: Apr., 2007- Mar., **2009**.
- 5) Interdisciplinary Graduate School Research Fellowship, Tokyo Tech, Japan; Year: Apr., 2006 - Mar., **2007**.
- 4) Venture Business Laboratory (VBL) Research Fellowship, Tokyo Tech, Japan; Year: Oct., 2004- Mar., **2006**.
- 3) Monbusho Scholarship, PhD Research, Tokyo Tech, Japan; Year: Oct., 2001-Sept., **2004**.
- 2) Katoh Science Foundation Award, Japan; Year: **2003**.
- 1) Research Fellowship, University Grants Commission (UGC), Bangladesh, University of Dhaka; Year: 1999-**2000**.

Membership of Scientific/Professional Organizations

- Bangladesh Chemical Society, Life Member # 1358, 10/11 Eastern Plaza, Dhaka-1205, Bangladesh
- Dhaka University Alumni Association, Life Member, Dhaka University
- Registered Graduate, Dhaka University
- Bangladesh Association for Advancement of Science (BAAS), Life Member # 845 (iv), Dhaka, Bangladesh
- Bangladesh Crystallographic Association, Life Member # 10, Dhaka, Bangladesh
- Dhaka University Chemistry Alumni Association, Life Member #50, Bangladesh

Country Visited

Japan, Germany, UK, Malaysia, China, Saudi Arabia, India and Bhutan



(Dr. Md. Mominul Islam)