

CURRICULUM VITAE

Name: Dr. Muhammed Shah Miran

Current Position: Professor, Department of Chemistry,
&
House Tutor, Bijoy Ekattor Hall,
University of Dhaka, Dhaka, Bangladesh

Date of Birth: February 05, 1979

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Google Scholar <https://scholar.google.com/citations?user=SSCStKEAAAJ&hl=en>
Researchgate https://www.researchgate.net/profile/Muhammed_Miran



Biography

Dr. Muhammed Shah Miran is a Professor of the Department of Chemistry in the University of Dhaka. He is fully dedicated to the innovation of physical science, especially on nanochemistry and chemistry of ionic liquids for more than sixteen years. For his outstanding academic achievements, he received prizes and honors in his academic career, in particular, Professor Ali Nawab Memorial Gold Medal-2002 from the Dhaka University for excellent achievements in MS examination. He has been awarded the MEXT Scholarship 2009 for pursuing his PhD research from the Japanese Ministry of Education, Science, Sports and Culture, Japan. He has been bestowed the JASSO Follow-up Research Fellowship for 03 months in the period of July 01, 2017 to March 31, 2018. After his return from Japan, he has devoted himself in advanced research in Dhaka University. He has **44** peer-reviewed articles (**IF# 75.7; RI score# 508 and h-index 13**), **02** book chapters and **62** conference abstracts including **nine** *Invited Lectures* in his credit. He is working with many professional bodies as a member/ life member. He is the reviewer of some International and National peer reviewed journals. He got research fund from the World Academy of Science (TWAS), Ministry of Science and Technology, the Ministry of Education and the University Grants Commission of Bangladesh (UGC). He visited several countries such as USA, Japan, China, India, Malaysia and Nepal.

Teaching Experiences:

1. *Professor*, Department of Chemistry, University of Dhaka, from February 25, 2020 to date
2. *Associate Professor*, Department of Chemistry, University of Dhaka, from September 30, 2014 to February 24, 2020
3. *Assistant Professor*, Department of Chemistry, University of Dhaka, from December 21, 2011 to September 29, 2014
4. *Lecturer*, Department of Chemistry, University of Dhaka, from January 21, 2007 to 20 December 2011
5. *Lecturer*, Moulvibazar Government College (26th BCS) from April 02, 2006 to January 20, 2007
6. *Trainer*, Teachers (Chemistry) of National University

Administration Experiences:

1. **House Tutor**, Bijoy Ekattor Hall, University of Dhaka, Dhaka, Bangladesh, from 24/11/2019 to date
2. **Assistant House Tutor**, Bijoy Ekattor Hall, University of Dhaka, Dhaka, Bangladesh, from 14/07/2014 to 23/11/2019
3. **Election Commissioner** (Bijoy Ekattor Hall), DUCSU Election 2019, University of Dhaka, Dhaka, Bangladesh
4. **Examination Committee**, working as chairman and members of examination committee at Dhaka University and other universities as external members

Educational Qualifications:

Degree / Program	Year	University /Board	Results
Post-Doctoral Research Fellow	2017-2018	Department of Chemistry and Biotechnology, Yokohama National University, Japan	Successfully completed
PhD in Chemistry	2010-2013	Department of Chemistry and Biotechnology, Yokohama National University, Japan	Awarded
Post Graduate Research Fellow	2009-2010	Department of Chemistry and Biotechnology, Yokohama National University, Japan	Successfully completed
MS in Chemistry	2001-2002 (held in 2005)	Department of Chemistry, Dhaka University	(1 st Class 1 st) Marks: 72.66%
4 Year BS (Hons.)	1997-2001 (held in 2003)	Department of Chemistry, Dhaka University	(1 st Class 1 st) Marks: 66.23%
HSC	1994-1996	Chandpur Govt. College, Gr-Science, Board-Cumilla	First Division*, Marks: 76.90%
SSC	1992-1994	Ragai High School, Gr-Science, Board-Cumilla	First Division*, Marks: 77.60%
Masters Dissertation		"Clay materials as an adsorbent and as a catalyst support"	
Doctoral Dissertation		"Fundamental studies of protic ionic liquids and their electrochemical activities for fuel cell electrolytes"	
PhD Supervisor		<i>Professor Masayoshi Watanabe</i> , Department of Chemistry and Biotechnology, Yokohama National University, Japan	

Research Interest: Fundamental properties and application of ionic liquids as novel materials, nano chemistry and nano technology, study of air pollutants monitoring

Scientific Journal (Peer-reviewed):

1. M. J. Uddin, **M. S. Miran**, M. Y. A. Mollah, Interaction of Cr(VI) with Electrochemically generated magnetite particles, *J. Saudi Chem. Soc.*, 2007, **11**, 457-464.
2. M. J. Uddin, **M. S. Miran**, M. Y. A. Mollah, Electrochemical synthesis and characterization of iron oxyhydroxide, *J. Bangladesh Chem. Soc.*, 2007, **20**, 39-45.
3. **M. S. Miran**, M. Y. A. Mollah, A. Hussain, M. M. Rahman, A multi-characterization of Bijoypur clay, *Bangladesh J. Sc. Res.*, 2008, **21**, 15-22.
4. S. Sultana, **M. S. Miran**, M. Y. A. Mollah, M. M. Rahman, Effect of solvent on the growth kinetics of zinc oxide nanoparticles, *J. Bangladesh Chem. Soc.*, 2008, **21**, 131-140.
5. A. K. Deb, **M. S. Miran**, M. Y. A. Mollah, Interaction of Cr(VI) with activated charcoal obtained from biomass, *Bangladesh J. Sc. Res.*, 2010, **23**, 1-10.
6. **M. S. Miran**, H. Kinoshita, T. Yasuda, M. A. B. H. Susan, M. Watanabe, Hydrogen bonds in protic ionic liquids and their correlation with physicochemical properties, *Chem. Commun.*, 2011, **47**, 12676-12678.
7. **M. S. Miran**, H. Kinoshita, T. Yasuda, M. A. B. H. Susan, M. Watanabe, Physicochemical properties determined by ΔpK_a for protic ionic liquids based on an organic super-strong base with various Brønsted Acids, *Phys. Chem. Chem. Phys.* 2012, **14**, 5178-5186.
8. **M. S. Miran**, H. Kinoshita, T. Yasuda, M. A. B. H. Susan, K. Dokko and M. Watanabe (2012). *Protic ionic liquids based on a super-strong base: correlation between physicochemical properties and ΔpK_a* . MRS Proceedings, **1473**, mrs12-1473-bbb06-09 doi:10.1557/opl.2012.1133, Editors: Professor Sheng Dai.
9. **Miran, M. S.**, Yasuda, T., Susan, M. A. B. H., Dokko, K., Watanabe, Protic Ionic Liquids Based on a Super-Strong Acid: Bulk and Electrochemical Properties, Ed., W. Reichert "Molten salts and ionic liquids, 18", "ECS Transactions – Honolulu, Hawaii", Volume 50, 285-291 (2012).
10. U. S. Akhtar, **M. S. Miran**, M. A. B. H. Susan, M. Y. A. Mollah, M. M. Rahman, Synthesis and characterization of polyaniline-silica composite materials, *Bangladesh J. Sci. Ind. Res.* 2012, **47(3)**, 249-256.
11. **M. S. Miran**, T. Yasuda, M. A. B. H. Susan, K. Dokko and M. Watanabe, Electrochemical Properties of protic ionic liquids: correlation between open circuit potential for H₂/O₂ cells under Non-humidified Conditions and ΔpK_a *RSC Adv.*, **2013**, 3, 4141-4144.

12. A. K. Deb, **M. S. Miran**, M. Y. A. Mollah, Active carbon prepared from vegetable wastes for the treatment of Pb(II) in aqueous medium, *Bangladesh J. Sci. Ind. Res.* 48(2), 97-104, 2013.
13. M. S. Islam, **M. S. Miran**, M. M. Rahman, M. Y. A.M. Mollah, M. A. B. H. Susan, Polyaniline-silica composite materials: influence of silica content on the thermal and thermodynamic properties *J. Nanostructured Polym. Nanocomposites*, 2013, 9(3), 83-89.
14. T. Yasuda, H. Kinoshita, **M. S. Miran**, S. Tsuzuki and M. Watanabe, A Comparative Study on Physicochemical Properties of Protic Ionic Liquids Based on Allylammonium and Propylammonium Cations, *J. Chem. Eng. Data*, 2013, 58 (10), 2724–2732.
15. S. Tsuzuki, W. Shinoda, **M. S. Miran**, H. Kinoshita, T. Yasuda, M. Watanabe, Intermolecular interactions in ion pairs of protic ionic liquids: comparison with aprotic ionic liquids, *J. Chem. Phys.*, 2013, 139, 174504.
16. P. Ahmed, **M. S. Miran**, M. A. B. H. Susan, M. Y. A. Mollah, Growth process of zinc oxide nanoparticles in presence of reverse micelles of anionic and cationic surfactants, *J. Bangladesh Chem. Soc.* 2013, 26, 20-29.
17. S. Zhang, **M. S. Miran**, A. Ikoma, K. Dokko and M. Watanabe, Protic ionic liquids and salts as versatile carbon precursors, *J. Am. Chem. Soc.* 2014, 136, 1690-1693.
18. U. S. Akhtar, M. K. Hossain, **M. S. Miran**, M. Y. A. Mollah, Synthesis and characterization of porous silica and polyaniline-porous silica composite materials with high surface area, *Bangladesh J. Sci. Ind. Res.* 2014, 49(1), 1-8.
19. M. Kuroha, H. Gotoh, **M. S. Miran**, T. Yasuda, M. Watanabe and K. Sakakibara, Proton-conducting ionic liquid consisting of guanidine and excess trifluoromethanesulfonic acid, *Chem. Lett.* 2014, 43, 649-651.
20. **M. S. Miran**, T. Yasuda, M. A. B. H. Susan, K. Dokko and M. Watanabe, Binary protic ionic liquid mixtures as a proton conductor: high fuel cell reaction activity and facile proton transport, *J. Phy. Chem. C*, **2014**, 118, 27631-27639.
21. Susan, M. A. B. H., Islam, M. M., **Miran, M. S.**, Mollah, M. Y. A., Nanotechnology for smart textiles, *Textile Research Conference (ISSN 2413-9629)*, 2014, 44-46
22. M. S. Hossain, **M. S. Miran**, M. Rokonzaman, M. A. B. H. Susan, M. Y. A. Mollah, M. M. Rahman, Synthesis of Nickel Nanoparticles Using Poly(vinyl alcohol) as a Capping Agent, *J. Asiat. Soc. Bangladesh, Sci.* **2014**, 40(2): 197-205.
23. **Miran, M. S.**, Manjum, M., Islam, M. M., Nixon, A. S. M. H. R., Mollah, M. Y. A., Susan, M. A. B. H., Micelle-Assisted Dyeing of Cotton with Reactive Dyes, *Textile Research Conference (ISSN 2413-9629)*, 2015, 08-10.
24. F. Hassan, **M. S. Miran**, H. A. Simol, M. A. B. H. Susan, M. Y. A. Mollah, Synthesis of ZnO nanoparticles by a hybrid electrochemical-thermal method: influence of calcination temperature, *Bangladesh J. Sci. Ind. Res.* **2015**, 50(1), 21-28.
25. M. Shohel, **M. S. Miran**, M. A. B. H. Susan, M. Y. A. Mollah, Calcination Temperature-Dependent Morphology of Photocatalytic ZnO Nanoparticles Prepared by an Electrochemical–Thermal Method, *Res. Chem. Intermed.*, **2016**, 42(6), 5281–5297.
26. H. A. Simol, M. Y. A. Mollah, **M. S. Miran**, Preparation of ZnO/SiO₂ Nanocomposites by Sol-gel Method and Their Characterizations, *J. Bangladesh Chem. Soc.*, **2016**, 28(1&2), 71-81.
27. **M. S. Miran**, T. Yasuda, R. Tatara, M. A. B. H. Susan, and M. Watanabe, Amphoteric Water as Acid and Base for Protic Ionic Liquids and Their Electrochemical Activity When Used as Fuel Cell Electrolytes, *Faraday Discuss.* **2018**, 206, 353-364.
28. M. Hoque, M. L. Thomas, **M. S. Miran**, M. Akiyama, M. Marium, K. Ueno, K. Dokko, and M. Watanabe, Protic ionic liquids with primary alkylamine-derived cations: dominance of hydrogen bonding on observed physicochemical properties, *RSC Adv.* **2018**, 8, 9790-9794.
29. **M. S. Miran**, M. Hoque, T. Yasuda, K. Ueno and M. Watanabe, Key Factor Governing the Physicochemical Properties and Extent of Proton Transfer of Protic Ionic Liquids: ΔpK_a or Structural Chemistry?, *Phys. Chem. Chem. Phys.*, 2019, 21, 418-426.
30. M. R. Rashid, F. Afroze, S. Ahmed, **M. S. Miran**, M. A. B. H. Susan, Control of the Porosity and Morphology of Ordered Mesoporous Silica by Varying Calcination Conditions, *Materials Today: Proceedings*, 2019,15, 546–554.
31. M. S. H. Saikat, M. M. Islam, M. Y. A. Mollah, M. A. B. H. Susan, **M. S. Miran**, Thermal and Electrochemical Properties of Protic Ionic Liquids and their Binary Mixtures with Water, *Materials Today: Proceedings*, 2019, 15, 498–503.
32. M. Marium, M. Hoque, **M. S. Miran**, M. L. Thomas, I. Kawamura, K. Ueno, K. Dokko, M. Watanabe, Rheological and ionic transport properties of nanocomposite electrolytes based on protic ionic liquids and silica nanoparticles, *Langmuir* 2020, 36, 1, 148-158.
33. H. A. Simol, R. Sultana, M. Y. A. Mollah and **M. S. Miran**, Synthesis of Fe₃O₄ and Fe₂O₃ nanoparticles using hybrid electrochemical-thermal method, *Bangladesh J. Sci. Ind. Res.* 2020,55, 221-228.

34. G. Ara, **M. S. Miran**, M. M. Islam, M. Y. A. Mollah, M. M. Rahman, 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, *N. J. Chem.*, 2020, 44, 13701-13706.
35. M. R. Rahman, M. S. I. Sheikh, **M. S. Miran**, M. M. A. Sayeed, M. A. B. H. Susan and M. M. Islam, Functionalization of Jute Fibers by Reactive Oxygen Species for Encapsulation of an Organic Dye from Aqueous Solution, *Bangladesh J. Sci. Res.* 2020, 31-33(2): 66-72.
36. U. Hasanah, **M. S. Miran**, M. M. Rahman, M. M. Islam, Simultaneous reductions of production loss and environmental burden through the treatment of loose leather with non-toxic manganese dioxide nanoparticles, *J. Clean. Prod.*, 2021, 318, 128541.
37. M. R. Alam, J. Basak, M. M. Islam, M. Y. A. Mollah, M. M. Rahman, M. A. B. H. Susan, **M. S. Miran**, Preparation and Characterization of Cellulose-Based ZnO Composites, *J. Bangladesh Chem. Soc.*, 2021, 33, 111-116.
38. M. M. Islam, S. Ahmed, **M. S. Miran**, M. A. B. H. Susan, Advances on potential-driven growth of metal crystals from ionic liquids, *Progress in Crystal Growth and Characterization of Materials* 2022, 68(4), 100580.

Proceedings, Extended abstracts:

39. **Miran, M. S.**, Kinoshita, H., Yasuda, T., Susan, M. A. B. H., Watanabe, M. Physicochemical properties of new protic ionic liquids based on an organic super-strong base, 1,8-diazabicyclo[5,4,0]-undec-7-ene, with various Brønsted acids, 1st Japanese ILs Sym., 2011, 83-84.
40. Kinoshita, H., **Miran, M. S.**, Yasuda, T., Susan, M. A. B. H., Dokko, K., Watanabe, M. Evaluation of Ionicity of Protic Ionic Liquids by Means of Walden Plot and PGSE NMR Approaches, 1st Japanese ILs Sym., (Japanese) 2011, 85-86.
41. **Miran, M. S.**, Kinoshita, H., Yasuda, T., Susan, M. A. B. H., Dokko, K., Watanabe, M. Electrochemical Behaviors of Protic Ionic Liquids: Correlation between Physicochemical Properties and ΔpK_a . 2nd Japanese ILs Sym., 2011, 58-59.
42. Tsuzuki, S., Shinoda, W., **Miran, M. S.**, Kinoshita, H., Yasuda, T., Dokko, K., Watanabe, M. Intermolecular interactions and liquid properties of protic ionic liquids: Analysis by ab initio MO calculations and molecular dynamics simulations. 2nd Japanese ILs Sym., (Japanese) 2011, 60-61.
43. Kinoshita, H., **Miran, M. S.**, Yasuda, T., Susan, M. A. B. H., Dokko, K., Watanabe, M. Physicochemical Properties and Evaluation of Ionicity for Novel Protic Ionic Liquids, 2nd Japanese ILs Sym., (Japanese) 2011, 84-85.
44. Ahamed, P., **Miran, M. S.**, Mollah, M. Y. A., and Yousuf, M. A. Effect of surfactants on growth kinetics of ZnO nanoparticles, International Workshop on Tools, Implants and Biomaterials, 2012, 33-34.

Book Chapters:

1. M. M. Islam and **M. S. Miran**, A chapter entitled “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, **2018**, 267-288.
2. M. Y. Pabel, M. F. Ehsan, M. S. Miran, and M. M. Islam, A chapter entitled “**Nanocatalysts for the Photodegradation of Organic Pollutants**” in the book titled “Emerging Applications of Nanomaterials” Edited by Prof. N.B. Singh, Prof. Md. Abu Bin Hasan Susan and Dr. Ratiram Gomaji Chaudhary to be published by Materials Research Forum LLC, USA (In press)
3. **M. S. Miran**, J. Basak, M. A. B. H. Susan and M. M. Islam A chapter entitled “*Protic Ionic Liquids-Based Binary Mixtures: Properties and Application* “*Properties and Applications of Ionic Liquids*” edited by Nouredine Abidi, NOVA Publishers, USA, **2022 (In preparation)**.

Keynote and Invited Lectures:

1. International conference on Environmental Protection for Sustainable Development(ICEPSD)-2022, 2-4 September 2022, CIRDAP and Dhaka University, Dhaka, Bangladesh.
2. International conference on science and technology for celebrating the birth centenary of Bangabandhu (ICSTB-2021), 11-13 March 2021, BCSIR, Dhaka, Bangladesh

3. The international Webinar on Material Science (IWMS-2020, 09 June 2020, Kamla Nehru Mahavidyalaya, Nagpur, India
4. The International Conference on Materials Engineering and Nanotechnology (ICMEN 2019), Kuala Lumpur, Malaysia, December 2-5, 2019
5. Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019), Dhaka, Bangladesh, November 27-28, 2019
6. International Conference on Multifunctional Advanced Materials, ICMAM 2018, 05-07 October 2018, Kamla Nehru Mahavidyalaya, Nagpur, India,
7. 1st Symposium on Chemistry for Global Solidarity, 14 October 2016, Dhaka, Bangladesh
8. International Conference on Advances in Material Sciences, (Kerala, India, October 23-24, 2013)
9. Program to enhance science education in Bangladesh, 31 March 2014, Dhaka University, Bangladesh

Research Activity and Funding Organizations:

1. Principal Investigator, Project on *Ionic Liquids Based Microemulsions as Designer Solvents for thin film preparation through metal deposition* from The World Academy of Sciences (TWAS) for the advancement of science in developing countries for the Year 2017-2019.
2. Principal Investigator, Project on *Fabrication of manganese dioxide/polyaniline composite-modified graphite electrode for supercapacitor applications* under special grant allocated from the Ministry of Science and Technology for the Year 2017-2018
3. Associate Investigator, *Study on the development of electrochemical capacitors* under special grant allocated from the Ministry of Science and Technology for the Year 2015-2017
4. Principal Investigator, Project on *Development of cost effective strategy for novel organic synthesis using ionic liquid-water binary systems* under special grant allocated from the Ministry of Science and Technology for the Year 2014-2015
5. Project Director of a Project supported by the University Grants Commission of Bangladesh in the Year 2013-2014, 2014-2015, 2016-2017 and 2017-2018
6. Associate Director of one Project of the Bose Centre for Advanced Study and Research in Natural Sciences, Dhaka University, Dhaka-1000, Bangladesh
7. Associate Investigator, Project on *Ionic Liquid-Based Microemulsions as Environmentally Benign Media and Efficient Catalysts* under special grant allocated from the Ministry of Science and Technology for the Year 2013-14
8. Associate Investigator, *Project on Ionic Liquids and Their Binary Systems as Green Solvents for Sustainable Environment* under the grants for advanced research in science from the Ministry of Education for the Year 2013-2017

List of Awards and Scholarships

1. Awarded **JASSO Follow-up research fellowship 2017** in the period of 90 days from July 01, 2017 to March 31, 2018
2. Awarded **MEXT Scholarship 2009 (No. 092077)** from October, 2009 to March, 2013 for pursuing *PhD* research from the Japanese Ministry of Education, Science, Sports, and Culture, Japan
3. Awarded **Professor Mohammad Ali Nawab Memorial Gold Medal-2002** for securing 1st position in the 1st class in MS Examination 2002 in the Department of Chemistry of Dhaka University
4. Awarded **Provost Award 2004** from Fazlul Huq Muslim Hall, Dhaka University for securing 1st position in the 1st class in 4 year B.Sc (Honors) Examination 2001 from the Department of Chemistry, University of Dhaka
5. **Dr. Maleka Al-Razi Scholarship, 2001-2002** has been awarded for securing 1st position in the 1st class in 4 year B.Sc (Honors) Examination 2001 from the Department of Chemistry, University of Dhaka
6. **Dr. M. Quadrat-E-Khuda Memorial Scholarship, 2001-2002** has been awarded for securing 1st position in the 1st class in 4 year B.Sc (Honors) Examination 2001 from the Department of Chemistry, University of Dhaka
7. **Language Veteran Professor Dr. A. S. M. Nurul Haque Bhuiyan Foundation Scholarship, 2001-2002** has been awarded for securing 1st position in the 1st class in 4 year B.Sc. (Honors) Examination 2001 from the Department of Chemistry, University of Dhaka
8. **University Undergraduate Scholarship 1997-2001** has been awarded doing best results in the 1st year B.Sc. (Honors) examination
9. Awarded **Junior High School Scholarship 1991** in the talent pool grade.

List of Training:

1. **Electronic Government Procurement (e-GP)** jointly organized by Higher Education Quality Enhancement Project (HEQEP) and Engineering Staff College, Bangladesh (ESCB) held from 23-25 September, 2017 at the old Dhaka Center, ESCB City Campus, IEB Bhaban, Ramna, Dhaka 1000.
2. **Teaching, Learning and Assessment** conducted by the Institute of Education and Research in the University of Dhaka (DU) organized by the Sub-project “CP 3233” Academic Innovation Fund, Window-1, Higher Education Quality Enhancement Project (HEQEP) held from 01-03 September 2016 at the Department of Physics, DU, Bangladesh.
3. **Young Teachers Training Programme** organized by the Sub-project “Upgrading Undergraduate and Graduate Teaching in Chemistry (CP DU 2185)” Academic Innovation Fund, Window-1, Higher Education Quality Enhancement Project (HEQEP) under held from 01-06 June 2013 at the Department of Chemistry, University of Dhaka, Bangladesh.
4. **31st Training Program of NITUB**, on the use and maintenance of Ultra-Violet, Visible and Infrared Spectrometer, held from 10-15 November 2007, at the Department of Chemistry, University of Dhaka and Plasma Plus+ Application & Research Laboratory, Uttara, Dhaka, Bangladesh.
5. **23rd Training Program of NITUB**, on the use and maintenance of Gas Chromatograph, held on 27-31 December 2004, at the Department of Chemistry, University of Dhaka, and Dhaka, Bangladesh.

Organizational Activity:

1. Organizing Secretary, 6th Conference of Bangladesh Crystallographic Association, 2021
2. Member of the Organizing Committee, Bangladesh Chemical Congress 2008 Organized by Bangladesh Chemical Society and also worked as an active member of the Food Committee
3. As an active member Organized a Workshop Organized by Material Chemistry Research Laboratory of the Department of Chemistry and University of Dhaka, Bangladesh
4. Have been an active member for organizing Bangladesh Chemistry Olympiad 2007, 2008 and 2014
5. As an active member Organized Mobile Science Museum a joint project of Hanyang University, South Korea and Dhaka University, Bangladesh to popularize science education in Bangladesh from September 2013 to April 2014
6. Member of the organizing committee, second conference of Bangladesh Crystallographic Association, BCA 2015
7. Member of the organizing committee, 16 Asian Chemical Congress, 16 ACC
8. Co-convener, Registration Committee, Bangladesh Chemistry Olympiad 2016
9. Co-convener, Finance Committee, Bangladesh Chemistry Olympiad 2017
10. Organizing Secretary, 6th Conference of Bangladesh Crystallographic Association

Abstracts Published as Contribution to Scientific Meetings and Conferences:

1. International conference on Environmental Protection for Sustainable Development(ICEPSD)-2022, 2-4 September 2022, CIRDAP and Dhaka University, Dhaka, Bangladesh.
Photodegradation of organic dyes using semiconductor-based materials
M. S. Miran, M. F. Ehsan, and E. Hossain
2. International conference on science and technology for celebrating the birth centenary of Bangabandhu (ICSTB-2021), 11-13 March 2021, BCSIR, Dhaka, Bangladesh,
Binary mixtures of protic ionic liquids as fuel cell electrolytes
M. S. Miran
3. International conference on science and technology for celebrating the birth centenary of Bangabandhu (ICSTB-2021), 11-13 March 2021, BCSIR, Dhaka, Bangladesh,
Photocatalytic degradation of methylene blue in aqueous solution using acid modified kaolinite/ZnO composite as novel photocatalyst
M. F. Ehsan, M. M. Islam, M. Y.A. Mollah, M. A. B. H. Susan and M. S. Miran
4. 6th Conference of Bangladesh Crystallographic Association, 15-16 January 2021, Dhaka, Bangladesh,
Preparation and characterization of nitrogen-doped carbon and its electrochemical applications, M. M. Rahman, J. Basak, *M. M. Islam, M. Y.A. Mollah, M. A. B. H. Susan and M. S. Miran*
5. 6th Conference of Bangladesh Crystallographic Association, 15-16 January 2021, Dhaka, Bangladesh, Acid activated kaolinite/ZnO composite for photodegradation of methylene blue in aqueous solution
M. F. Ehsan, M. M. Islam, M. Y.A. Mollah, M. A. B. H. Susan and M. S. Miran
6. International conference on recent advances in chemistry (ICRAR)-2020, 7-8 February 2020, Dhaka, Bangladesh, Physicochemical properties of double salt protic ionic liquids based on trifluoroacetic acid as fuel cell electrolytes, J. Basak, M. Alam, M. A. B. H. Susan, M. Y. A. Mollah, **M. S. Miran**

7. International conference on recent advances in chemistry (ICRAR)-2020, 7-8 February 2020, Dhaka, Bangladesh, Effect of alkyl chain length of aliphatic alcohols on the transport properties of their binary mixtures with protic ionic liquid, M. Alam, M. Y. A. Mollah, M. A. B. H. Susan, **M. S. Miran**
8. International conference on recent advances in chemistry (ICRAR)-2020, 7-8 February 2020, Dhaka, Bangladesh, Thioesterification of cellulose of jute fibers, M. S. I. Sheikh, M. R. Rahman, **M. S. Miran**, M. A. B. H. Susan, M. M. Islam
9. The International Conference on Materials Engineering and Nanotechnology (ICMEN 2019), Kuala Lumpur, Malaysia, December 2-5, 2019, Transport Properties of Protic Ionic Liquids and Their Binary Mixtures with Polar Solvents as Fuel Cell Electrolytes, **M. S. Miran**.
10. Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019), Dhaka, Bangladesh, November 27-28, 2019, Binary Mixtures of Protic Ionic Liquids as Fuel Cell Electrolytes, **M. S. Miran**
11. The 8th International Congress on Ionic Liquids (COIL-8), 13-17 May 2019, Beijing, China, Protic Ionic Liquids and Their Binary Mixtures with Polar Solvents: Excess Properties and Molecular Interactions, **M. S. Miran**, M. S. H. Saikat, M. Y. A. Mollah and M. A. B. H. Susan
12. 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, University of Dhaka, Bangladesh, Manganese dioxide nanoparticles for the reduction of looseness of crust leather, Hasanah, U., **M. S., Miran**, Rahman, M. M., Shaikh, M. A. A., M. M. Islam
13. 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, University of Dhaka, Bangladesh, Inhibition of microbial attacks on leather by metallic silver particles, Shanti, M. S. J., Hossain, Taniya, Manzum, A. A., **M. S., Miran**, Rahman, M. M., Shaikh, M. A. A., M. M. Islam
14. 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, University of Dhaka, Bangladesh, modification of crust leather by copper(I) iodide for removal of looseness, Ahmed, H., Hasanah, U., **M. S., Miran**, Rahman, M. M., Shaikh, M. A. A., M. M. Islam
15. Bangladesh Chemical Congress 2018, BCC 2018, 17-19 October 2018, Department of Chemistry, University of Dhaka, Preparation and characterization of manganese dioxide catalyst supported on kaolinite clay, Shathi, A. S., Islam, M. M., Susan, M. A. B. Hasan, Mollah, M. Y. A., Rahman, M. M. and **Miran, M. S.**
16. Bangladesh Chemical Congress 2018, BCC 2018, 17-19 October 2018, Department of Chemistry, University of Dhaka, Effect of alkyl chain length of alcohol on the transport properties of protic ionic liquid based on diethylmethylamine and its binary mixtures with alcohols, Alam, M. M., Saikat, M. S. H., Mollah, M. Y. A., Susan, M. A. B. Hasan and Miran, M. S.
17. Bangladesh Chemical Congress 2018, BCC 2018, 17-19 October 2018, Department of Chemistry, University of Dhaka, Preparation and characterization of cellulose-ZnO composites for the photocatalytic degradation of methylene blue, Islam, M. S., Alam, M. R., Islam, M. M., Mollah, M. Y. A., Susan, M. A. B. Hasan and **Miran, M. S.**
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1. Life member (LM-1154), Bangladesh Chemical Society
2. Life member (LM-41), Network of Instrument Technical Personnel and User scientists of Bangladesh (NITUB)
3. Life member (LM-843), Bangladesh Association for the Advancement of Science (BAAS)
4. Life member (LM-28), Bangladesh Crystallographic Association (BCA)
5. Life member (LM-51), Dhaka University Chemistry Alumni Association (DUCAA)
6. Life member (LM 356), Japanese Universities Alumni Association in Bangladesh (JUAAB)
7. Member (23093), The Electrochemical Society of Japan (2010-2013)
8. Member (354189), Electrochemical Society (2012-2013)
9. Member (11010711), Materials Research Society (2012-2013)
10. Member (1633), Dhaka University Club, University of Dhaka, Dhaka 1000
11. Life member (11073), Dhaka University Alumni Association, DUAA

List of published articles in the daily newspaper and others:

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