

Curriculum Vitae

Name: **Dr. Md. Mufazzal Hossain**
Date of Birth: 01 June 1971
Official Address: Professor, Department of Chemistry, University of Dhaka, Dhaka-1000 Bangladesh.
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Nationality: Bangladeshi by Birth

Academic Background

| Name of Degree | Institution/University | Year of passing | Result |
|----------------|--|---------------------|---|
| Ph. D. | Department of Material Science & Engineering Utsunomiya University, Japan | March 23 2001 | Awarded |
| M. Sc. | Department of Chemistry University of Dhaka | 1992 (held in 1996) | *First Position in the First Class |
| B. Sc. (Hons.) | Department of Chemistry University of Dhaka | 1991 (held in 1994) | *First Position in the First Class |

Professional Experience

23 June 2013- to date : Professor, Deptt. of Chemistry, University of Dhaka
28 May 2012-25 Aug 2012 : JASSO Follow up Research Fellow, Utsunomiya Univ. Japan
27 Dec. 2009- 22 June 13 : Associate Professor, Deptt. of Chemistry, Univ. of Dhaka
14 Dec. -28 Dec. 2010 : Visiting Professor, Utsunomiya University, Japan.
01 Nov. 03- 26 Dec. 09 : Assistant Professor, Deptt. of Chemistry, Univ. of Dhaka (DU)
02 Jul. 04- 08 Feb 2007 : Post Doctoral Fellow Utsunomiya University, Japan.
(on study leave from DU)
26 Apr 2001-01 Nov. 2003 : Assistant Professor, Deptt. of Chemistry, Bangladesh University of Engineering & Technology, Bangladesh.
April 1998- March 2001 : Ph. D. Student, Utsunomiya University, Japan.
October 1997-March 1998 : Research Student, Utsunomiya University, Japan.
30 March 1997-29 Sept. : Lecturer, Department of Chemistry, Bangladesh University of Engineering & Technology, Bangladesh.
01 Jul 1996-28 March 1997 : Research Fellow, Semiconductor Technology Research Center, University of Dhaka.

Other Experiences

(a) Administrative Experience

- 19 Jan 2010- 08 Oct. 2017 : House Tutor, Salimullah Muslim Hall, Dhaka University.
09 Oct. 2007-18 Jan 2010 : Assistant House Tutor, Salimullah Muslim Hall, Dhaka University

Honors/Awards

1. **Visiting Researcher (JASSO Follow-up Fellow)**, 28 May 2012 to 25 August 2012, Utsunomiya University, Japan.
2. **Visiting Professor**, 14 December 2010 to 28 December 2010, Utsunomiya University, Japan.
3. **Post Doctoral Fellow (Venture Business Laboratory Fellowship)** 02 July 2004 to 24 November 2006, Utsunomiya University, Japan.
4. **“YOUNG SCHOLARSHIP 2000”** for excellent research works in 2000 in Utsunomiya University.
5. **“YOUNG SCHOLARSHIP 1999”** for excellent research works in 1999 in Utsunomiya University.
6. **Japanese Government Scholarship (MONBUKAGAKUSHO)** October 1997-March 2001.
7. **University Scholarship** with full tuition waives due to academic excellence in 1992 in Chemistry, University of Dhaka.
8. **Dr. Kudrat-e-Khuda foundation scholarship** for being first class first in B.Sc. (Hons.) in Chemistry (1991), University of Dhaka

Affiliated Membership

1. Life Member, Registrar Graduate, Dhaka University, No. 19267. 2017034486
2. Life Member of Bangladesh Chemical Society- No. LM-724
3. Ex-Member of Japan Chemical Society (1998-2001)- No. 1983074100
4. Ex-Member of Japan Chemical Society (2005)- No. 2050237100
5. Life member of JUAAB (Japanese Universities Alumni Association of Bangladesh)
6. Life member of NITUB-No. LM-36

Dissertations

1. Studies on Formation and Structures of Ordered Condensed Phases in Gibbs Monolayers, Ph. D. Thesis, Utsunomiya University, 2001.
2. TiO₂ Mediated Photodegradation of Methylene Blue and Procion Red, M. Sc. Thesis, University of Dhaka.

Books and Chapter of Books

1. Chemical Kinetics and Photochemistry. **M. M. Hossain**, M. A. Rahim (written in Bengali) First Edition, Panjeri Pub. Ltd. Dhaka, Bangladesh, October, **2009**.
2. Removal of Textile Dyes using Copper-Cobalt Mixed Oxide Matrix. Y. J. Ferdosi, A. N. Chowdhury. **M.M. Hossain**, Chemeca 2010: Engineering at the Edge; 26-29 (Publishers: Engineers Australia) **2010**, 2047-2056.

3. Two-Dimensional Phase Behavior and Condensed Phase Formation in Gibbs Monolayers at the Air-Water Interface. M. N. Islam, **M. M. Hossain**, T. Kato, *Bottom-Up Nanofabrication; Supramolecules, Self-Assemblies, and Organized Films: Ed. K. Ariga & H. S. Nalwa* (American Scientific Publishers), **2009**, 5, 275-298.
4. Surface Phase Behavior of Some Non-ionic Surfactants at the Air-Water Interface, M. N. Islam, **M. M. Hossain**, T. Kato, *Recent Res. Devel. Physical Chem.* (Transworld Research Network) **2004**, 7, 261-278.

Published Papers (International Journal)

5. Development of Cr(VI)/TiO₂ Coated Ceramic Surface Based Continuous Flow Model for Treatment of Wastewater under Sunlight. S. M. N. Jubair, M. A. Rahman, **M. M. Hossain**, *Current Res. Green and Sustainable energy* **2021** (submitted).
6. Removal of Methylene Blue from Aqueous Solution by Coconut Coir Dust as a Low-Cost Adsorbent. A. A. Ashik, M. A. Rahman, D. Halder, **M. M. Hossain**, *Applied Water Res.* 2020 (submitted).
7. Interactions of L-arginine with Langmuir Monolayers of Common Phospholipids at the Air-Water Interface. **M. M. Hossain**, K. Imura. *Chem. Phys, Lipids* **2021**, 235, No. 105054.
8. Fe(III)-aqua complex mediated photodegradation of Methylene Blue dye. A. Nawar, M. A. Rahman, **M. M. Hossain**, *Int. J. Environ. Sci. Dev.* **2021**, 12(4), pp 112-117.
9. Enhanced Photocatalytic Activity of an Acid-modified TiO₂ Surface for Degradation of the Azo Dye Remazol Red. U. Afrin, M. R. Mian, B. K. Breedlove, **M. M. Hossain**. *Chemistry Select.* **2017**, 2, 10371-10374.
10. Decolorization of Remazol Black B in Aqueous Suspension of TiO₂. M. J. Miah, M. T. Aziz, M. N. Kayes, M. Obaidullah, **M. M. Hossain**. *British J. Env. Sci.* **2017**, 5, 51-70.
11. Effect of Transition Metal Ions on Photodegradation of Remazol Black B (RBB) in the Aqueous Suspension of ZnO under Solar Light Irradiation. M. Obaidullah, M. N. Kayes, M. J. Miah, N. Suzuki, **M. M. Hossain**. *J. Adv. Chem. Sci.* **2017**, 3, 445-448.
12. Effect of Inorganic Anions on Photodegradation of Remazol Black B (RBB) in the Aqueous Suspension of ZnO under Solar Light Irradiation. M. Obaidullah, M. N. Kayes, M. J. Miah, N. Suzuki, **M. M. Hossain**. *J. Environ. Sci. Pollution Res.* **2016**, 2, 145-148.
13. Photodegradation Efficiency of Prepared and Commercial ZnO to Remove Textile Dye from Aqueous Solution. M. J. Miah, M. N. Kayes, M. Obaidullah, **M. M. Hossain**, *J Adv. Chem. Sci.* **2016**, 2, 337-340.
14. Immobilization of ZnO Suspension on Glass Substrate to Remove Filtration During the Removal of Remazol Red R from Aqueous Solution. M N Kayes, M. J. Miah, M. Obaidullah, M. A. Hossain, **M. M. Hossain**. *J. Advances Chem.* **2016**, 12, 4127-4133.
15. Effect of Some Metal Ions on the Photocatalytic Oxidation of Remazol Black B in Aqueous Solution under UV Irradiation. M. A. A. Nahid, **M. M. Hossain**, M Rahman, *J. Adv. Oxidation Technol.* **2015**, 18, 23-30.
16. Removal of Bractive T Blue by Photodegradation and Adsorption Using ZnO. M. A. A. Nahid, **M. M. Hossain**, M Rahman, *Smart Sci.* **2014**, 2, 70-74.

17. A Facile Approach to Fabrication of Novel CeO₂-TiO₂ Core-Shell Nanocomposite Leads to Excellent UV-Shielding Ability and Lower Catalytic Activity. N. M. Bahadur, F. Kurayama, T. Furusawa, M. Sato, I. A. Siddiquey, **M. M. Hossain**, N. Suzuki, *J. Nanopart. Res.* **2013**, 15, 1390.
18. Copper-Cobalt Mixed Oxide Matrix: A Better Adsorbent for the Treatment of Textile Dye. M. J. Ferdousi, A. N. Chowdhury, **M. M. Hossain**, *Asian J. Water Environ. Pollution.* **2013**, 10(2), 1-9.
19. Temperature Dependent Dendritic Domain Shapes in Langmuir Monolayers of Tetradecanoyl N-ethanolamide at the Air-water Interface. **M. M. Hossain**, K. Iimura, M. Yoshida, T. Kato, *J. Colloid Interface Sci.* **2011**, 353, 220-224.
20. Comparison of Phase Behavior between Water Soluble and Insoluble Surfactants at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato. *Appl. Surf. Sci.* **2010**, 257, 1129-1133.
21. Effect of Head Groups on the Phase Transitions in Gibbs Adsorption Layers at the Air-Water Interface. **M. M. Hossain**, K. Iimura, M. Yoshida, T. Sakai, T. Kato, *J. Colloid Interface Sci.* **2010**, 348, 146-151.
22. Cobalt-Nickel Mixed Oxide Surface : A Promising Adsorbent for the Removal of PR Dye From Water. A. N. Chowdhury, M. A. Rahim, M. J. Ferdousi, M. S. Azam, **M. M. Hossain**, *Appl. Surf. Sci.* **2010**, 256, 3718-3724.
23. Temperature and Compression Rate Independent Domain Shape in Langmuir Monolayers of Di-*n*-dodecyl Hydrogen phosphate at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato, *J. Colloid Interface Sci.* **2008**, 319, 295-301.
24. How Many Phases and Phase Transition do Exist in Gibbs Monolayers at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato, *J. Colloid Interface Sci.* **2007**, 306, 391-397.
25. Interactions of L-Arginine with Langmuir Monolayers of Di-*n*-dodecyl Hydrogen Phosphate at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato, *J. Colloid Interface Sci.* **2006**, 304, 200-207.
26. Surface Phase Behavior of Di-*n*-tetradecyl Hydrogen Phosphate in Langmuir Monolayers at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato, *J. Colloid Interface Sci.* **2006**, 302, 272-277.
27. Effect of Temperature on the Surface Phase Behavior of *n*-Hexadecyl Dihydrogen Phosphate in Adsorption Layers at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato, *J. Colloid and Interface Sci.* **2006**, 298, 348-355.
28. Effect of an Amino Acid on the Surface Phase Behavior of *n*-Hexadecyl Phosphate in Gibbs Adsorption Layers. **M. M. Hossain**, T. Suzuki, T. Kato. *Colloids and Surfaces A* **2006**, 284/285, 119-124.
29. Phase Diagram of *n*-Tetradecyl Phosphate in Gibbs Monolayers. **M. M. Hossain**, T. Suzuki, T. Kato. *Colloids and Surfaces A* **2006**, 284/285, 234-238.
30. Kinetic Appearance of First-Order Gas-Liquid Expanded and Liquid Expanded-Liquid Condensed Phase Transitions Below the Triple Point. **M. M. Hossain**, T. Suzuki, K. Iimura, T. Kato, *Langmuir* **2006**, 22, 1074-1078.
31. Interaction of an Organic Cation with Gibbs Monolayers of *n*-Hexadecyl Phosphate. **M. M. Hossain**, T. Suzuki, T. Kato. *J. Colloid Interface Sci.* **2005**, 292, 186-194.

32. Phases and Phase Transitions in Gibbs Monolayers of an Alkyl Phosphate Surfactant, **M. M. Hossain**, T. Suzuki, T. Kato, *J. Colloid Interface Sci.*, **2005**, 288,342-349.
33. Removal of Dyes from Water by Conducting Polymeric Adsorbent. A.-N. Chowdhury, S. R. Jesmeen, **M. M. Hossain**, *Polym. Adv. Technol.* 2004, 15, 633-638.
34. Condensed Structure Formation in Mixed Monolayers of Anionic Surfactants and 2-Hydroxyethyl Laurate at the Air-Water interface. **M. M. Hossain**, M. N. Islam, T. Okano, T. Kato, *Colloid and Surfaces A* **2002**, 205, 249-260.
35. Phase Behavior of n-Hexadecyl Phosphate in Gibbs Adsorption Layers. **M. M. Hossain**, T. Suzuki, T. Kato, *Colloid and Surfaces A* **2002**, 198-200, 53-57.
36. CH₃(CH₂)_nCOOH/Cd²⁺ System on the Aqueous Cadmium Acetate Solution Investigated in situ by Polarization Modulation Infrared Spectroscopy. Y. Ren, **M. M. Hossain**, K. Iimura, T. Kato, *J. Phys. Chem. B* **2001**, 105, 7723-7729.
37. Phase Transition in Gibbs Monolayers of Mixed Surfactants. **M. M. Hossain**, T. Okano, T. Kato, *Stud. Surf. Sci. Catal.* **2001**, 132, 169-172.
38. Unusual Transition in a Two-Dimensional Condensed Phase to a Mosaic Texture. **M. M. Hossain**, T. Suzuki, T. Kato, *Langmuir* **2000**, 16, 9109-9112.
39. Line tension Induced Instability of Condensed Domains Formed in Adsorbed Monolayers at the Air-Water Interface. **M. M. Hossain**, T. Kato, *Langmuir* **2000**, 16, 10175-10183.
40. Orthorhombic Structure of Cadmium Behenate Monolayers on the Water Surface of a Langmuir Trough Detected by Polarization Modulation Infrared Spectroscopy. Y. Ren, **M. M. Hossain**, K. Iimura, T. Kato, *Chem. Phys. Lett.* **2000**, 325, 503-507.
41. Higher Order Structure Formation in Adsorbed Monolayers at Aqueous Solution Surfaces Studied by Brewster Angle Microscopy. **M. M. Hossain**, M. Yoshida, T. Kato, *Langmuir* **2000**, 16, 3345-3348.
42. Phase Transition in Adsorbed Monolayers of 2-Hydroxyethyl Laurate at the Air-Water Interface. **M. M. Hossain**, M. Yoshida, K. Iimura, N. Suzuki, T. Kato, *Colloid and Surfaces A* **2000**, 171, 105-113.

Published Papers (National Journal)

43. Removal of a Dye from Aqueous Solution by Glass Supported Nano and Commercial ZnO Film. M. A. Hossain, M. N. Kayes, **M. M. Hossain**, *J. Bangladesh Chem. Soc.* **2021** (14 February 2021 Submitted).
44. A Comparative Study of Photodegradation of Orange G by Fe(III)-Aqua Complex and Fenton Reagent. F. Hossain, M. M. Hasan, M. A. Rahman, D. Halder, **M. M. Hossain**, *J. Bangladesh Chem. Soc.* **2020**, 32, 75-79.
45. Optical, Magnetic and Adsorptive Properties of Copper(II) oxide Prepared from Thermal Decomposition of Copper(II) carbonate. M. A. Rahman, T. S. A. Islam, **M. M. Hossain**, *Dhaka Univ. J. Sci.* **2020**, 68, 7-12.

46. Theoretical Investigation of Non-linear Optical (NLO) properties and UV-visible Spectra of N-(3,5-dichlorobenzylidene)aniline and N-(3,5-dichlorobenzylidene)4-nitroaniline. M. S. Islam, N. Mousume, **M. M. Hossain**, M. A. Aziz, M. S. Islam. *Dhaka Univ. J. Sci.* **2018**, 66, 139-143.
47. A Comparative Study for Adsorptive Removal of Remazol Red R and Remazol Black B from Aqueous Solution by ZnO. A. Z. M. M. I. Mazumder, C. R. Bikash, M. A. Rahman, **M. M. Hossain**. *Dhaka Univ. J. Sci.* **2018**, 66, 121-127.
48. Preparation, Characterization and Catalytic Activity of Copper(II) Oxide Nanoparticles. M. A. Rahman, A. Z. M. M. I. Mazumder, **M. M. Hossain**, T. S. A. Islam. *Dhaka Univ. J. Sci.* **2018**, 66, 9-13.
49. Comparative Study for Photodegradation of Remazol Red R by Different TiO₂ Samples. N. N. Rashed, A.Z.M. M. I. Mazumder, **M. M. Hossain**. *Dhaka Univ. J. Sci.* 2017, 65, 49-54.
50. Estimation of Formation Constant of Cr(III)-EDTA Complex and Kinetic Study of the Complexation Reaction. A. Hossain, **M. M. Hossain**. M. Q. Ehsan. *J. Bangladesh Chem. Soc.* **2015**, 27, 139-150.
51. Preparation of Clay-ZnO Composite Photocatalysts and Study Their Effectiveness in Removing Brilliant Orange from Aqueous Solution. **M. M. Hossain**, M. A. Rahman. *J. Bangladesh Chem. Soc.* **2015**, 27, 58-68.
52. ZnO Mediated Photodegradation of Aqueous Solutions of Crystal Violet and Ponceau S by Visible Light. **M. M. Hossain**, M. A. Hossain, M. N. Kayes, D. Halder. *Journal of Engineering Science* **2014**, 05, 69-74.
53. Adsorption of Remazol Red RR onto Chitosan from Aqueous Solution. M. P. Kabir, M. M. Islam, S. M. Masun, **M. M. Hossain**, *Bangladesh J. Sci. Ind. Res.* **2014**, 49, 111-118 .
54. Preparation of ZnO with Characteristic Surface Properties for Application as an Adsorbent. **M. M. Hossain**, M. J. Mia, M. N. Kayes, M. A. Hossain, M. N. Bahadur. *J. Bangladesh Chem. Soc.* **2013**, 26, 112-125
55. Photodegradation of Orange Green by Fe(III)–Aqua Complex. **M. M. Hossain**, M. R. I. Rasel, M. S. Islam, *Dhaka Univ. J. Sci.* **2012**, 60(1), 43-46.
56. Adsorption of Methylene Blue and Crystal Violet on Natural and Modified Clays. A. J. Mahmood, **M. M. Hossain**, M. A. Rahman, M. E. Quayum, *J. Bangladesh Chem. Soc.* **2011**, 24(1), 46-55.
57. Removal of Brilliant Orange from Aqueous Solution by Prepared and Commercial ZnO. **M. M. Hossain**, T. S. A. Islam, M. A. Rahman, *The Dhaka Univ. J. Sci.* **2011**, 59(1), 81-85.
58. Head-group dependent domain morphologies in Langmuir monolayers. **M. M. Hossain**, T. Kato. *Bangladesh J. Sci. Ind. Res.*, **2011**, 46(1), 47-52.
59. Photocatalytic Degradation of Brilliant Orange in Presence of TiO₂ Suspension. M. S. Islam, **M. M. Hossain**, T. S. A. Islam, *J. Bangladesh Chem. Soc.* **2009**, 22(2), 88-97.
60. Effect of pH, Ions and Ionic Strength on TiO₂-mediated Photodegradation of Brilliant Orange. M. S. Islam, **M. M. Hossain**, T. S. A. Islam, *The Dhaka Univ. J. Sci.* **2010**, 58(2), 187-190.
61. Removal of 2,5-Dichlorophenol from Aquatic Environment using TiO₂ as a Photocatalyst. T. S. A. Islam, H. A. Begum, **M. M. Hossain**, M. J. Islam, *The Dhaka Univ. J. Sci.* **2010**, 58(1), 119-122.
62. Temperature Effect on Surface Phase and Micellization of 2-Hydroxyethyl Laurate in Water. **M. M. Hossain**, K. Iimura, T. Kato, *The Dhaka Univ. J. Sci.* **2004**, 52, 385-390.
63. ZnO Mediated Degradation of Brilliant Orange by Visible Light. A. J. Mahmood, M. S. Islam, **M. M. Hossain**, *J. Bangladesh Chem. Soc.* **2003**, 16, 36-46.
64. Removal of Bractive T Blue from Aqueous Solution by ZnO. A. J. Mahmood, M. S. Islam, **M. M. Hossain**, *The Dhaka Univ. J. Sci.* **2003**, 52, 13-21.

65. Studies on TiO₂ Mediated Photodegradation of Procion Red. A. J. Mahmood, M. M. Rahman, **M. M. Hossain**, *J. Bangladesh Chem. Soc.* **1996**, 9, 229-237.
66. Head-group dependent domain morphologies in Langmuir monolayers at the air-water interface. **M. M. Hossain**, K. Iimura, T. Kato. Proceedings of *Bangladesh Chemical Congress 2008*, 167-173 (OP-B5) 30 January – 01 February, **2009**, Dhaka, Bangladesh.
67. Photodegradation of Brilliant Orange in TiO₂ Suspension. T. S. A. Islam, **M. M. Hossain**, H. A. Begum, M. S. Islam. Proceedings of *Bangladesh Chemical Congress 2008*, 225-235 (OP-B19) 30 January – 01 February, **2009**, Dhaka, Bangladesh.

Seminar and Conference Presentations

1. pH Dependent Photocatalytic Activity of Prepared CuO/Cu₂O Composite for the Photo-oxidative Degradation of Methylene Blue from Its Aqueous Solution under Visible Light Irradiation. M. A. Rahman, T S A Islam, **M M Hossain**. International Conference on Nano-materials for Environmental Applications (NEA 2019) Miramar-Goa, 6-7 March 2019.
2. Preparation of Mn₅O₈ Nanoparticles by a Facile Gel Formation Route and the Study of Its Effectiveness in Oxidative Removal of Methylene Blue from an Aqueous Solution, T. Bhowmick **M. M. Hossain**. PP 22, 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, Dhaka, Bangladesh.
3. Preparation and Characterization of ZnO-TiO₂ Composites and Their Application in Photodegradation of Textiles Dyes Orange G and Methylene Blue from Aqueous Solution, F. Hossain, M. A. Rahman, **M. M. Hossain**. PP 23, 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, Dhaka, Bangladesh.
4. Optical, Magnetic and Catalytic Properties of Prepared Copper(II) oxide. M. A. Rahman, T S A Islam, **M M Hossain**. PP 25, 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, Dhaka, Bangladesh.
5. Photodegradation of Remazol Black B by Aqueous Suspension of Titanium Dioxide, M. A. Momen, A. Z. M. M. I. Mazumder, **M. M. Hossain**. PP 34, 5th Conference of Bangladesh Crystallographic Association, 25-26 January 2019, Dhaka, Bangladesh.
6. Interaction of L-arginine with Gibbs Monolayers and Langmuir Monolayers of Amphiphiles at the Air-Water Interface, M. M. Hossain, K. I. Iimura, Invited Lecture, Abstract of International Conference on Functional Nanomaterials and Nanotechnology (ICFNN 2017), p 75-76, October 10-13, 2017, Kathmandu, Nepal.
7. Photodegradation of a Dye from a Continuous Flow of an Artificial Wastewater by Immobilized Films of Semiconducting Oxides. S. M. N. Jubair, A. Z. M. M. I. Mazumder, **M. M. Hossain**. Abstract of the 16th Asian Chemical Congress, p 259-260(MN-OP-24), March 16-19, 2016, Dhaka, Bangladesh.
8. Synthesis, Preparation and Characterization of the Films of Oxa[9] Helicine Derivatives and Evaluation of Optoelectronic Properties. M. J. Miah, M. Shahabuddin, M. Salim, **M. M. Hossain**, M. Karikomi, E. Nasuno, N. Kato, K. Iimura. Abstract of the 16th Asian Chemical Congress, p 261 (MN-OP-25), March 16-19, 2016, Dhaka, Bangladesh.
9. Preparation of ZnO Nanoparticles and Their Application as Glass Supported Films for Photodegradation of a Dye. M. A. Hossain, **M. M. Hossain**. Abstract of the 16th Asian Chemical Congress, p 262 (MN-OP-26), March 16-19, 2016, Dhaka, Bangladesh.
10. A Comparative Study of Photodegradation of Remazol Red RR by Different TiO₂ Samples. M. N. Rashed, **M. M. Hossain**. Abstract of the 16th Asian Chemical Congress, p 466 (PH-PP-04), March 16-19, 2016, Dhaka, Bangladesh.

11. Photodegradation of Remazol Red RR by Glass Supported Films of ZnO from Aqueous Solution. M. N. Kayes, **M. M. Hossain**. Abstract of Regional Conference of Young Scientists on Recent Trend in Physical and Biological Sciences, p31, March 7-8, 2014, Bangalore, India.
12. Effect of an Amino Acid with Langmuir Monolayers of Membrane Lipids. **M. M. Hossain**, K. Iimura. *Abstract of International Conference on Material Science 2013*, p 82 (BGD03), February 21-23, 2013, Tripura, India.
13. Effect of pH, ions and ionic strength on TiO₂-mediated photodegradation of brilliant Orange. M. S. Islam, **M. M. Hossain**, T.S. A. Islam. *Abstract of International Conference on Material Science 2013*, p 184 (BGD04), February 21-23, 2013, Tripura, India.
14. Preparation of Glass Supported ZnO films for Photodegradation of Remazol Red RR from Aqueous Solution. M.N. Kayes, **M. M. Hossain**. *Abstract of Bangladesh Chemical Congress 2012*, 7-9 December 2012, Dhaka, Bangladesh.
15. Phase Transitions and Ordered Phases in the Monolayers at the Air-Water Interface. **M. M. Hossain**, Invited Lecture, 06 August 2012, MANA Seminar, National Institute of Material Science (NIMS), Sukuba, Japan.
16. Two-Dimensional Ordering of Amphiphilic Molecules at the Air-Water Interface. **M. M. Hossain**, Invited Lecture, 30 July 2012, Kyushu University, Fukuoka, Japan.
17. Phase Behavior of Some Amphiphilic Molecules at the Air-Water Interface. **M. M. Hossain**, Invited Lecture as Visiting Professor, 27 December 2010, Venture Business Laboratory, Utsunomiya University, Japan.
18. Head-group dependent domain morphologies in Langmuir monolayers at the air-water interface. **M. M. Hossain**, K. Iimura, T. Kato. *Abstract of Bangladesh Chemical Congress 2008*, p 52 (OP 5), January 30 – 01 February, 2009, Dhaka, Bangladesh
19. Photodegradation of Brilliant Orange in TiO₂ Suspension. T. S. A. Islam, **M. M. Hossain**, H. A. Begum, M. S. Islam. *Abstract of Bangladesh Chemical Congress 2008*, p 64 (OP 19), January 30 – 01 February, 2009, Dhaka, Bangladesh
20. Importance of Headgroup Interactions for Phase Transitions in Gibbs Adsorption Layers. **M. M. Hossain**, M. Yoshida, K. Iimura, T. Sakai, T. Kato. *Bangladesh Chemical Congress 2006*, p 105-106 (PP 69) March 9-11, 2007, Dhaka, Bangladesh
21. Interactions of an amino acid with a lipid monolayer used as a model membrane. **M. M. Hossain**, K. Iimura, T. Suzuki, T. Kato. *Bangladesh Chemical Congress 2006*, p 46 (OP B20) March 9-11, 2007, Dhaka, Bangladesh.
22. Surface Phase Behavior of *n*-Alkyl Phosphates and Their Interaction with L-arginine at the Air-Water Interface. **M. M. Hossain**, K. Iimura, T. Kato. *Annual Report of the Presentations of Venture Business Laboratory*, March 8, 2006, Utsunomiya, Japan
23. How Many Phases Do Exist in Gibbs Adsorption Layers? **M. M. Hossain**, K. Iimura, T. Kato, *Abstract of the 16th International Symposium on Surfactants in Solution SIS2006*, P 227 (P-57) June 4-9, 2005, Seoul, Korea.
24. Surface Phase Behavior of Di-*n*-dodecyl Hydrogen Phosphate and its Interaction with L-arginine in Langmuir Monolayers. **M. M. Hossain**, K. Iimura, T. Kato, *Abstract of the 16th International Symposium on Surfactants in Solution SIS2006*, P 189 (P-19) June 4-9, 2005, Seoul, Korea.
25. Phase Behavior in Gibbs Monolayers and Micellization of Some Water Soluble Amphiphiles. T. Kato, M. N. Islam, **M. M. Hossain**. *Abstract of the 16th International Symposium on Surfactants in Solution SIS2006*, P 81 (IW-14) June 4-9, 2005, Seoul, Korea.

26. First-Order G-LC, G-LE and LE-LC Phase Transitions in Gibbs Monolayers of *n*-Tetradecyl Phosphate. **M. M. Hossain**, T. Suzuki, T. Kato. *Abstract of 85th Symposium of Japanese Chemical Society*, 3 D3-38 *A, March 26-29, 2005, Yokohama, Japan.
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