

Curriculum Vitae

Professor Dr. Mohammad Yousuf Ali Mollah



Designation

Member (Since 29th May 2015): University Grants Commission of Bangladesh

❖ *Duties and Responsibilities*

- I was in-charge of day-to-day general administration of UGC for three years
- On occasions I represent the Chairman/UGC in different forums and negotiate with different Development Partners, in particular WB, ADB, European Union, British Council etc.
- I look after the activities of AIF (Academic Innovation Fund) component of Higher Education Quality Enhancement Project (HEQEP). My responsibilities include, among others, evaluation, selection and monitoring of -
 - W-1(teaching-learning) projects;
 - W-2 (establishing physical facilities for PhD, M. Phil research) projects at universities;
 - W-3 (establishing connectivity at different universities) projects;
 - W-4 (establishing University-Industry collaboration) projects;
 - TTO (establishing TTO at three different Universities) projects;
 - Establishing Fab Labs (Fabrication laboratory) at seven universities.
- Currently I am looking after Information Management, Communication & Training (IMCT) Division.
 - To cater the needs and demands of ICT infrastructures of UGC and the public universities of Bangladesh and undertake necessary measures toward applications of ICT knowledge by UGC personnel as well as university administration – both academic and administrative.
 - To assist the universities to connect international research and education networks.
 - To administer the functions of Higher Education Management Information System (HEMIS) already established at UGC
- On occasions I am assigned with monitoring/ reporting/ assessing/inquiry committees of different Public and Private Universities on academic and administrative matters.

❖ *Previous positions held*

Professor: Department of Chemistry, University of Dhaka

Dean (2 -Terms): Faculty of Science, University of Dhaka

Founding Director: Institutional Quality Assurance Cell, Dhaka University (IQAC-DU)

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❖ *Academic activities/achievements*

- During my long 35 years of service in the department of chemistry of Dhaka University I was actively involved in teaching-learning and research activities of the department. I was the SPM of a HEQEP project amounting BD Tk 4.5 million to establish a material chemistry laboratory equipped with state of art equipment.
- I was twice elected Dean of Faculty of Science. As academic leader I was responsible to guide the departments belonging to the Faculty to update their curricula and bring dynamism in teaching-learning and research in different departments. I established a Trust fund of BD Tk 4.0 million for academic enrichment of young teachers of the Science Faculty of Dhaka University.
- I was the founding Director of Institutional Quality Assurance Cell (IQAC) at Dhaka University. I wrote the proposal and after the award I was instrumental in inspiring the teaching community toward quality education in their respective fields.

- I was member of Academic Council, Dean's Committee etc. of Dhaka University.
- As a Dean I was member of a number of Committees, Sub-Committees and Trustee Board in Ministry of Science and Technology, Ministry of Education and Technical education Board.
- I am/was either Executive Editor or Member of Editorial Committee of six different journals regularly published by different professional bodies in Bangladesh.

❖ **Education**

- PhD in Chemistry, Macquarie University, Sydney, Australia, 1979
- MSc in Physical-Inorganic Chemistry, Dhaka University, 1970
- BSc (Hons.) in Chemistry, Dhaka University, Dhaka, 1969

❖ **Scholarship & Fellowships awarded**

- Visiting Fellow, Gill Chair of Chem. & Chem. Engg., Lamar University, Texas, USA, Oct.-Dec. 2002, July-Sept. 2000, June-Dec. 1998, June 1993-Dec. 1995, Dec.1990- Nov. 1991,
- NSERC (Canada) Fellowship for Post-doctoral research at Ottawa University, Canada, March 1979- March 1981.
- Colombo Plan Scholarship for higher studies in Australia, Feb. 1975- Feb. 1979.

❖ **Academic positions held**

- Professor, Department of Chemistry, Dhaka University, July 1993 to June 2016.
- Associate professor, Department of Chemistry, Dhaka University, Feb. 1984-June 1993.
- Asst. Professor, Department of Chemistry, Dhaka University, June 1981- January 1984.
- Lecturer, Department of Chemistry, Jahangirnagar University, March 1972-March 1975.

❖ **Other academic activities**

- Executive Editor, Dhaka University Journal of Sciences (2013-2015).
- Member Editorial Committee, Journal of Bangladesh Chemical Society since 2008
- Member, Editorial Committee, Bangladesh Journal of Scientific Research (BAAS) since 2007.
- Member, Editorial Committee, Bangladesh Journal of Scientific and Industrial Research (BCSIR) 2009-2015.
- Member, Editorial Committee, Journal of Asiatic Society Bangladesh (Science)
- Member, Journal of National University(Science), Bangladesh

❖ **Member of professional bodies**

- Life Member, Bangladesh Chemical Society.
- Life Member, Bangladesh Association for the Advancement of Science (BAAS)
- Life Member, Asiatic Society of Bangladesh.

❖ **Syndicate member**

- Dhaka University of Engineering Technology, DUET (three terms)
- University of Science & Technology Chittagong, USTC (two terms)

❖ **Hall Administration**

- House Tutor of F. H. Muslim Hall of Dhaka University for six years.
- Provost (in-charge) of F. H. Muslim Hall of Dhaka University for six months in 1989.

❖ **Student advising**

- Departmental student advisor for four years (two terms)

❖ **Research interests**

- Reaction kinetics and catalysis, Material science, Environmental chemistry, Solid waste managements, Wastewater treatment, Nanochemistry and Nanocomposite, Supramolecular chemistry.

❖ **Research Supervision**

- PhD : Completed 6; M Phil : Completed 3.; MS: > 75 (8 students at Lamar University, Texas, USA.)

- *List of peer reviewed articles: 125 (Annexure I)*

- ❖ *List of books written*
 - Co-author of a text book on Physical Chemistry for undergraduate students (2009).
 - Co-author of Chemistry books (Paper I, Paper II and Practical) for Higher Secondary Certificate (H. S. C.) students.

- ❖ **Total publications: over 125 in National and International Peer reviewed Journals and a number of book chapters.**

❖ **Annexure-1: List of peer reviewed articles**

1. **Mollah, M. Y. A.** and Nawab, M. A., Conductance behaviour of arsenious sulphide sol during coagulation. *Dhaka University Studies (B)*, **22(2)**, 35-37 (1974).
2. Failes, R. L., **Mollah, M. Y. A.** and Shapiro, J. S., Evidence of α -elimination from neo-pentyl chloride in the gas-phase. *Int. J. Chem. Kint.*, **11**, 1271-1278 (1979).
3. Failes, R. L., **Mollah, M. Y. A.** and Shapiro, J. S., Gas-phase pyrolysis of neo-pentyl bromide. *Int. J. Chem. Kint.*, **13**, 7-21 (1980).
4. Holmes, J. L., **Mollah, M. Y. A.** and Burgers, P. C., Eliminations of alkanes from alkanols. *Org. Mass Spectroscopy*, **17(3)**, 127-130 (1982).
5. Holmes, J. L., **Mollah, M. Y. A.**, Burgers, P. C. and Wolkoff, P., Isomerization of alkane molecular ions. *J. Am. Chem. Soc.*, **104**, 2879-84 (1982).
6. Rahman, M. T., **Mollah, M. Y. A.** and Nawab, M. A., Adsorption of iodine on transition metal oxides-Part-I. *Dhaka University Studies*, **B(33)**, 51-57 (1985).
7. Begom, G. N., **Mollah, M. Y. A.**, Rahman, M. M. and Nawab, M. A., Adsorption of rhodamine B and fluorescein from alcoholic solutions on mixed transition metal oxides. *Dhaka University Studies*, **B34(1)**, 17-25 (1986).
8. Rahman, M. M., Nawab, M. A., **Mollah, M. Y. A.**, Majumder, M. S. A., Chowdhury, M. G. A. and Khorassani, S. S. M. A., Influence of oxygen adsorption biography of nickel oxide on its activity towards adsorption of methane. *Bangl. J. Sci. & Ind. Res.*, **21**, 176-187 (1986).
9. Begom, Q., Ahmed, H., **Mollah, M. Y. A.** and Mahmood, A. J., Viscosity stability of tamarind gum. *J. Bangl. Acad. Sci.*, **12(1)**, 55-63 (1988).
10. Ghosh, S. K., **Mollah, M. Y. A.** and Nawab, M. A., Adsorption of iodine on transition metal oxide-Part II. *J. Bangl. Chem. Soc.*, **1(2)**, 141-147 (1988).
11. Guha, S. K., Ahmed, H., **Mollah, M. Y. A.**, Islam, T. S. A. and Huq, S. M. I., Adsorption of polyvinyl alcohol from aqueous solution on montmorillonite clay substrate. *Bangl. J. Soil Sci.*, **12(2)**, 17-31 (1989).
12. Ahmed, A., Rahman, M. M. and **Mollah, M. Y. A.**, Standardization of the techniques of preparation of supported catalysts-Part I: NiO on Al₂O₃, by impregnation method. *J. Bangl. Chem. Soc.*, **4(1)**, 97-104 (1991).
13. Rahman, M. M. **Mollah, M. Y. A.**, Alam, A. M. S. and Roy, R., Detection and measurements of gaseous pollutants in some selected locations in Dhaka. *J. Bangl. Chem. Soc.*, **4(2)**, 183-190 (1991).
14. Cocke, D. L., **Mollah, M. Y. A.**, Parga, J. R., Hess, T. R. and Ortego, J. D., An XPS and SEM/EDS characterization of leaching effects on Pb and Zn-doped Portland cement. *J. Hazard. Mater.*, **30**, 83-95 (1992).
15. **Mollah, M. Y. A.**, Parga, J. R. and Cocke, D. L., An infrared spectroscopic examination of cement based solidification/stabilization systems-Portland Type V and type IP with Zinc. *J. Environ. Sci. & Health*, **27A(6)**, 1503-1519 (1992).
16. **Mollah, M. Y. A.**, Tsai, Y. N., Hess, T. R. and Cocke, D. L., An FT-IR, EDS and SEM investigation of solidification/stabilization of chromium using Portland cement type- V and type-IP. *J. Hazard. Mater.*, **30**, 273-283 (1992).
17. **Mollah, M. Y. A.**, Hess, T. R. and Cocke, D. L., Surface and bulk studies of leached and unleached fly ash using XPS, EDS, SEM and FT-IR techniques. *Cemt. & Concr. Res.*, **24**, 109-118 (1994).
18. Kibria, M. G., **Mollah, M. Y. A.**, Shahjahan, M. and Rahman, M. M., Standardization of the technique of preparation of supported catalyst-nickel on Al₂O₃ by precipitation technique. *Bangl. J. Scientific Res.*, **10(2)**, 197-203 (1992).
19. Shahjahan, M., **Mollah, M. Y. A.**, Kibria, M. G., and Rahman, M. M., Standardization of the technique of preparation of supported catalyst-nickel on SiO₂ by precipitation technique. *Bangl. J. Scientific Res.*, (1995).
20. **Mollah, M. Y. A.**, Tsai, Y. N., Hess, T. R. and Cocke, D. L., An FT-IR investigation of cement-based solidification/stabilization systems doped with cadmium. *J. Environ. Sci. & Health*, **27(5)**, 1213-1227 (1992).

21. **Mollah, M. Y. A.**, Tsai, Y. N., Hess, T. R. and Cocke, D. L., An FT-IR and XPS investigation of the effect of carbonation on the solidification/stabilization of cement based systems-Portland type V with zinc. *Cement & Concrete Research*, **23**, 773-784 (1993).
22. **Mollah, M. Y. A.**, Padmavathy, P., Hess, T. R., Vempati, R. K. and Cocke, D. L., Chemical and physical effects of sodium lignosulfonate superplasticizers on the hydration of Portland cement and solidification/stabilization consequences. *Cement & Concrete Research*, **25(3)**, 671-682 (1995).
23. **Mollah, M. Y. A.**, Vempati, R. K., Lin, T.-E., and Cocke, D. L., The interfacial chemistry of solidification/stabilization of metals in cement and pozzolanic material systems. *Waste Management*, **15(2)**, 137-48 (1995).
24. Vempati, R. K., **Mollah, M. Y. A.**, Chintala, A. K., Cocke, D. L., and J. H. Beeghly, Solidification/Stabilization of toxic metal wastes using cocke and coal combustion by-products. *Waste Management*, **15(5)**, 433-440(1995).
25. Vempati, R. K., Musthyala, S. C., **Mollah, M. Y. A.** and Cocke, D. L., Surface analyses of pyrolysed rice husk using scanning force microscopy. *Fuel*, **74(1)**, 1-5(1995).
26. **Mollah, M. Y. A.**, Ranapaul, Vempati, R. K. and Cocke, D. L., Intercalation of kaolinite under hydrothermal conditions. *J. Material Science (UK)*, **31**, 1255-1259(1996).
27. Lin, E.-T., **Mollah, M. Y. A.**, Vempati, R. K. and Cocke, D. L., Synthesis and characterization of calcium hydroxyzincate using FT-IR spectroscopy, X-ray diffraction, and scanning Force Microscopy. *ACS's Chemistry of Materials*, **70(10)**, 1974-8 (1995).
28. Felix Lu, **Mollah, M. Y. A.** and Cocke, D. L., Effect of sodium lignosulfonate superplasticizer on the solidification/stabilization of phenol using Portland cement type-V. *J. Environ. Sci. & Health*, **30(1)**, 183-209 (1996).
29. **Mollah, M. Y. A.** , Lu, Felix and Cocke, D. L., An X-ray diffraction, Fourier transform infrared spectroscopy and scanning electron microscopy/energy dispersive spectroscopic investigation of the effect of sodium lignosulfonate superplasticizer on the hydration of Portland cement type V. *Polymer-Plastic Technology and Engineering*, **38(5)**, 849 (1999).
30. **Mollah, M. Y. A.**, Liang, J., and Cocke, D. L., Speciation of silver in cementitious environment. *J. Hazrd. Mater.*, **63(2)**, 163-177 (1998).
31. **Mollah, M. Y. A.**, Felix, Lu, Hess, T. R. and Cocke, D. L., An X-ray diffraction (XRD) and Fourier Transform Infrared (FT-IR) characterization of the speciation of arsenic (V) using Portland cement type-V. *The Science of the Total Environment*, **224(1)**, 57-68 (1998).
32. **Mollah, M. Y. A.**, Promreuk, S., Schennach, R., Cocke, D. L. and Guler, R., Cristobalite formation from thermal treatment of Texas lignite fly ash. *Fuel*, **78(11)**,1277-1282(1999).
33. **Mollah, M. Y. A.**, Yu, W., Schennach, R. and Cocke, D. L., A Fourier transform infrared spectroscopic investigation of the early hydration of Portland cement and the influence of of sodium lignosulfonate. *Cement & Concrete Research*, **30(2)**, 267-273 (2000).
34. **Mollah, M. Y. A.**, W. J. Adams, Schennach, R. and Cocke, D. L., A review of cement-superplasticizer interactions and their models. *Advances in Cement Research*, **12(4)**, 153-161 (2000).
35. Sui, X. Cocke, D. L., **Mollah, M. Y. A.**, An X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FT-IR), scanning electron microscopy/energy dispersive spectroscopic (SEM/EDS) evidence for the interaction of ettringite with arsenate anions. *J. Bangladesh Academy of Sciences*, **23(2)**, 173-186 (1999).
36. Hassan, A. S. M. Q., **Mollah, M.Y.A.** and Rahman, M.M. Coupling of a pulse reactor to a GC and investigation of the catalytic oxidation of isopropanol and methane by oxygen. *Dhaka Univ. J. Science*. **47(2)**, 151-158 (1999).
37. Mamun, A., Schennach, R., Parga, J. R., **Mollah, M. Y. A.**, Hossain, M. A. and Cocke, D. L., Passive film breakdown during anodic oxidation of zirconium in pH 8 buffer containing chloride and sulfate. *Electrochim. Acta*, **46(22)**, 3343-3350 (2001).
38. **Mollah, M. Y. A.**, Schennach, R., Parga, J. R. and Cocke, D. L., Electrocoagulation(EC)-science and applications. *J. Hazardous Materials*, **84(1)**, 29-41 (2001).
39. **Mollah, M. Y. A.**, Schennach, R., Patscheider, J., Promreuk, S. and Cocke, D. L., Plasma chemistry as a tool for green chemistry- environmental analysis and waste management. *J. Hazardous Materials*, **79(3)**, 301-320 (2000).

40. Sajed, B., Hassan, A.S.M.Q., Omar A., **Mollah, M. Y. A.** and Rahman, M. M., Investigation of the interaction of dichromate anion ($\text{Cr}_2\text{O}_7^{2-}$) with a locally available clay substrate. *Dhaka Univ. J. Science.* **50(2)**, 1-6(2002).
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42. Sajed, B., Hassan, A.S.M.Q., **Mollah, M. Y. A.** and Rahman, M. M., Chemical and spectroscopic investigation of the interaction of dichromate anion ($\text{Cr}_2\text{O}_7^{2-}$) with Si-containing ferrihydrite (Si-Feh). *J. Bangl. Acad. Sci.*, **26 (1)**, 103-110 (2002).
43. Cocke, D. L., Hossain, M. A., Mencer, D. E., McWhinney, H., Parga, J. R., **Mollah, M. Y. A.**, Naugle, D. and Kesmez, M., Structure-Property Relationships of Oxide Surfaces and Interfaces II. *Mat. Res. Soc. Symp. Proceed.*, **751**, 207-212. (2003).
44. **Mollah, M. Y. A.**, Kesmez, M. and Cocke, D. L., An X-ray diffraction (XRD) and Fourier transform infrared spectroscopic (FT-IR) investigation of the long-term effect on the Solidification/ Stabilization (S/S) of arsenic(V) in Portland cement type-V. *The Science of Total Environment*, **325(1-3)**, 255-262 (2004).
45. **Mollah, M. Y. A.**, Pathak, S. R., Patil, P. K., Vayuvegula, M., Agrawal, T. S. and Cocke, D. L., Treatment of orange II azo-dye by electrocoagulation (EC) technique in a continuous flow cell using sacrificial iron electrodes. *J. Hazard. Mater.*, **109 (1-3)**, 165-171 (2004).
46. **Mollah, M. Y. A.**, Hossain, M. A., Kesmez, M. and Cocke, D. L., A potentiodynamic study of the effect of chromate anions on the corrosion of copper by chloride in neutral aqueous buffer solution. *J. Bangl. Chem. Soc.*, **16(1)**, 47-56 (2003).
47. Cocke, D. L., Hossain, M. A., Mencer, D. E., H., McWhinney, H. J., Parga, R., **Mollah, M. Y. A.**, Naugle, D. and Kesmez, M., Electrochemical properties of copper oxide surfaces, buried interfaces and subsurface zone and their use to characterize these entities. *Material Research Society Symposium Proceedings* (2003), **751** (Structure-Property Relationships of Oxide Surfaces and Interfaces II) 207-212.
48. **Mollah, M. Y. A.**, Pathak, S. R., Patil, P. K., Vayuvegula, M., Agrawal, T. S. and Cocke, D. L., Electrocoagulation (EC) of orange II dye in a continuous flow reactor using sacrificial aluminum electrodes and analyses of the solid products by X-ray diffraction (XRD) and Fourier transform infrared spectroscopy (FT-IR). *J. Hazard. Mater.*, **109(1-3)**, 165-171 (2004).
49. **Mollah, M. Y. A.**, Morkovsky, P. and Cocke, D. L., Electrocoagulation (EC) - Present perspectives and future prospects. *J. Haz. Mater.*, **114(1-3)**, 199-210(2004).
50. Cocke, D. L., Shennach, R., Hossain, M. A., Mencer, D. E., McWhinney, H., Parga, J. R., Kesmez, M., Gomes J. A. G. and **Mollah, M. Y. A.**, The low temperature thermal oxidation of copper. Cu_3O_2 , and its influence on past and future studies. *Vacuum*, **79(1-2)**, 71-83, (2005).
51. **Mollah, M. Y. A.**, Gomes J. A. G., Das, K. K., Cocke, D. L., Electrochemical treatment of orange II dye solution— use of aluminum sacrificial electrodes and floc characterization. *Journal of Hazardous Materials*, **176**, 851-858 (2010).
52. Cocke, D. L., Hossain, M. A., Mencer, D. E., McWhinney, H., Parga, J. R., **Mollah, M. Y. A.**, Naugle, D. and Kesmez, M., Electrochemical properties of copper oxide surfaces, buried surfaces, and sub-surfaces zones and their use to characterize these entities. *Mat. Res. Soc. Symp. Proceed.*, **751**, Z5.6.1 – Z5.6.6 (2003).
53. Ahmed, O., Biswas, P. and **Mollah, M. Y. A.**, Electrochemical degradation of malachite green in an electrocoagulation (EC) cell using iron as ‘sacrificial’ electrode. *J. Bangl. Chem. Soc.*, **18(2)**, 174-180 (2003).
54. Simol, H. A. Mottalib, M. A. and **Mollah, M. Y. A.**, Electrogeneration of Al-oxyhydroxide and its characterization. *J. Bangl. Acad. Sci.*, **31(1)**, 143-149 (2007).
55. Jashimuddin, M., Miran, M. S. and **Mollah, M. Y. A.**, Interaction of Cr(VI) with electrochemically generated magnetite particles. *J. Saudi Chem. Soc.*, **11(3)**, 457-464(2007).
56. Jashimuddin, M., Miran, M. S. and **Mollah, M. Y. A.**, Electrochemical synthesis of iron oxyhydroxide and its characterization. *J. Bangl. Chem. Soc.* **20(1)**, 39-45 (2007).
57. Gomes, J. A., **Mollah, M. Y. A.**, Cocke, D. L., Moreno H. and Peterson, E., Advances in mechanistic investigation of as removal by electrocoagulation. *Procd. Bangl. Chemical Congress*, 75-81(2007).
58. Miran, M. S., **Mollah, M. Y. A.**, Hussain, A. and Rahman, M. M., A multi-technique characterization of Bijoypur clay. *Bangl. J. Scientific Res.*, **21(1&2)**, 15-22 (2008).
59. Sultana, S., Miran, M. S., **Mollah, M. Y. A.**, and Rahman, M. M., Effects of solvents on the growth kinetics of Zinc Oxide Nanoparticles. *J. Bangl. Chem. Soc.*, **21(2)**, 129-138 (2008).

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61. Deb, A. K., Miran, M. S. and **Mollah, M. Y. A.**, Interaction of Cr(VI) with activated charcoal obtained from biomass. *Bangl. Journal of Scientific Research*, **23(1)**, 1-10 (2010).
62. Farooque, K. N., Yeasmin, Z., Halim, M. E., Mahmood, A.J. and **Mollah, M. Y. A.**, Effect of carboxymethyl cellulose on the properties of ordinary portland cement. *Bangla. J. Sci. Ind. Res.*, **45(1)**, 1-8 (2010).
63. Biswas, B. N., **Mollah, M. Y. A.**, and Susan, M. B. H., Potentiodynamic Studies on corrosion of copper by chloride ions and its inhibition by inorganic and organic ions in aqueous buffer solution. *Ionics*, **18(1-2)**, 189-195 (2012).
64. Begum, F. **Mollah, M. Y. A.**, Rahman, M. M. and Susan, M. B. H., Kinetics of the alkaline hydrolysis of crystal violet in micelles, reverse micelles and microemulsions of cetyltrimethylammoniumbromide. *J. Bangl. Chem Soc.*, **24(2)** 173-184, (2011).
65. Rahman M. M., Rahman, M. M., **Mollah, M. Y. A.** and Susan, M. A. B. H. Electrochemical behavior of Malachite green on glassy carbon electrode- a cyclic voltammetric study. *J. Bangl. Chem. Soc.*, **24**, 25-36 (2011).
66. Hossain, S. Fatema, U. K., **Mollah, M. Y. A.**, Rahman, M. M. and Susan, M. B. H., Microemulsions as nanoreactors for preparation of nanoparticles with antibacterial activity. *J. Bangl. Chem. Soc.*, **25(1)**, 71-79 (2012).
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68. Akhter, U. S., Miran, M. S., Susan, M. B. H., **Mollah, M. Y. A.**, Rahman, M. M., Preparation and characterization of polyaniline-silica composite material. *Bangladesh Journal of Scientific and Industrial Research*, **47(3)**, 249-256 (2012)
69. Deb, A. K., Miran, M. S. and **Mollah, M. Y. A.**, Active carbon prepared from vegetable wastes for the treatment of of Pb(II) in aqueous solution. *Bangl. J. Sci. Ind. Res.*, **48(2)**, 97-104 (2013).
70. Sultana, S., Saha, S., Islam, M. M., Rahman, M. M., **Mollah, M. Y. A.**, Susan, M. A. B. H., Electrodeposition of nickel from reverse micellar solution of cetyltrimethylammonium bromide. *J. Electrochem. Soc.*,(USA), **160(11)**, D524-D529 (2013): DOI: 10.1149.2.039311jes.
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(C) Books Written

- (i) Co-author of a text book on Physical Chemistry for undergraduate students (2009).
- (ii) Co-author of Chemistry books (Paper I, Paper II and Practical) for Higher Secondary Certificate (H. S. C.) students.

(D) Proceedings, Extended Abstracts, Bulletins and Preprints

Authors	Title	Detail	Location
1. Susan, M. A. B. H., Hossain, S., Fatema, U. K., Mollah, M. Y. A., Rahman, M. M.	Microemulsions as Nanoreactors for Preparation of Nanoparticles with Antibacterial Activity	<i>International Conference on Chemical Engineering (ICChE2011)</i> , 2011 , 229-233	Bangladesh

2. Susan, M. A. B. H., Islam, M. M., Miran, M. S., Mollah, M. Y. A. Nanotechnology for Smart Textiles *Textile Research Conference, 2014*, 44-46 Bangladesh
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(E) Abstracts Published as Contribution in the Scientific Meetings

	Authors	Title	Detail	Location
1.	Susan, M. A. B. H., Saha, S., Ahmed, S., Begum, F., Rahman, M. M., Mollah, M. Y. A.	Electrodeposition of Cobalt from an Ionic Liquid with Tunable Morphology	Polychar 19- World Forum on Advanced Materials, March 20-24, 2011	Kathmandu, Nepal
2.	Saha, S., Susan, M. A. B. H., Mollah, M. Y. A.	Reverse Micellar Solution of a Cationic Surfactant and an Ionic Liquid as Media for Electrodeposition of Cobalt with Tunable Morphology	The 34 th Annual Conference of Bangladesh Chemical Society, December 19-20, 2011	Dhaka, Bangladesh
3.	Begum, F., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H.	Kinetics of the Alkaline Hydrolysis of Crystal Violet in Micelles, Reverse Micelles and Microemulsions of Cetyltrimethylammonium Bromide	The 34 th Annual Conference of Bangladesh Chemical Society, December 19-20, 2011	Dhaka, Bangladesh
4.	Susan, M. A. B. H., Hossain, S., Fatema, U. K., Mollah, M. Y. A., Rahman, M. M.	Microemulsions as Nanoreactors for Preparation of Nanoparticles with Antibacterial Activity	International Conference on Chemical Engineering (ICChE), December 29-30, 2011	Dhaka, Bangladesh
5.	Susan, M. A. B. H., Hossain, S., Fatema, U. K., Mollah, M. Y. A., Rahman, M. M.	Preparation of Nanoparticles with Antibacterial Activity using Microemulsions as Nanoreactors	International Seminar <i>Science for Society</i> , Bangladesh JSPS Alumni Association, February 24-25 2012	Dhaka, Bangladesh
6.	Korobi, S. N., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H.	Nanostructures of Surfactant-based Organized Systems Tuned by Water Structure Modification	International Workshop on Nanotechnology, December 21-23, 2012	Dhaka, Bangladesh
7.	Hasan, F. Susan, M. A. B. H., Mollah, M. Y. A.	Hybrid Electrochemical-Thermal Synthesis of Zinc Oxide Nanoparticles from Sacrificial Zinc Anode	International Workshop on Nanotechnology, December 21-23, 2012	Dhaka, Bangladesh
8.	Rokonuzzaman, M., Hossain, M. S., Islam, M. M., Susan, M. A. B. H., Mollah, M. Y. A.	Preparation of Nickel Nanoclusters in Aqueous Solutions using Poly(vinyl alcohol) as a Capping Agent	International Workshop on Nanotechnology, December 21-23, 2012	Dhaka, Bangladesh
9.	Auni, A., Ahmed, K., Ara, G., Mollah, M. Y. A., Susan, M. A. B. H.	Prospects of Binary Ionic Liquid-Molecular Solvent System as Magnificent Media for Nanoparticle Synthesis	International Workshop on Nanotechnology, December 21-23, 2012	Dhaka, Bangladesh
10.	Uddin, M. A., M. M., Susan, M. A. B. H., Mollah, M. Y. A.	Preparation of Zinc Oxide Nano-Structures from Their Suspension and the Effect of Poly(vinyl	International Workshop on Nanotechnology, December 21-23, 2012	Dhaka, Bangladesh

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| 11. | Fatema, U. K., Rahman, M. M., Mollah, M. Y. A., Susan, M. A. B. H. | Microemulsions as Nanoreactors for Size-controlled Synthesis of Metallic Nanoparticles for Biomedical Applications | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 12. | Barai, J., Susan, M. A. B. H., Mollah, M. Y. A. | Hydrothermal Analysis of ZnO Nanoparticles and Investigation of the Effects of Ionic Liquid on their Morphology | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 13. | Pattadar, D. K., Susan, M. A. B. H., Mollah, M. Y. A. | Colloidal Synthesis of Manganese Dioxide Nano-Particles-Their Characterization and Application in the Decomposition of Phenol | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 14. | Rahman, M. M., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. | Electrochemical Behavior of Malachite Green in Surfactant-based Organised Nanosystems | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 15. | Hoque, M., Mollah, M. Y. A., Susan, M. A. B. H. | Synthesis and Characterization of Fe@ Au Core@Shell Nanoparticles with Tunable Optical Properties Using Microemulsion Based Nanoreactor | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 16. | Sultana, S., Saha, S, Susan, M. A. B. H., Mollah, M. Y. A. | Electrodeposition of Metallic Nickel Nanoparticle on Copper Substrate from Aqueous Reverse Micellar Solution | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 17. | Jannat, J., Islam, M. M., Mollah, M. Y. A., Susan, M. A. B. H. | Electrodeposition of Nano-dimensional Cobalt from Aqueous Reverse Micellar and Ionic Liquids Solutions | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 18. | Islam, M. J., Mollah, M. Y. A., Susan, M. A. B. H. | Kinetics in Nanosystem: Influence of Polymer on the Kinetics of Crystal Violet in Aqueous Solution of a Cationic Surfactant | International Workshop on Nanotechnology, December 21-23, 2012 | Dhaka, Bangladesh |
| 19. | Begum, F., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. | Kinetic Investigation on the Acid Hydrolysis of Bromazepam Catalyzed by Supramolecular Self-Assembled System of Cetyltrimethylammonium Bromide | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
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| 21. | Pattadar, D. K., Susan, M. A. B. H., Mollah, M. Y. A. | Preparation of Colloidal Manganese Dioxide Nano-Particles and Their Application in The Decomposition of Phenol | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
| 22. | Saha, S, Susan, M. A. B. H., Mollah, M. Y. A. | Electrodeposition of Cobalt with Tunable Morphology from Reverse Micellar and Non-Chloroaluminate Ionic Liquid Solutions | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |

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| 23. | Islam, M. S., Miran, M. S., Rahman, M. M., Mollah, M.Y.A., Susan, M. A. B. H. | Synthesis of Polyaniline-Silica Composite Materials and Study of the Effect of Silica on Thermal and Thermodynamic Properties of Polyaniline | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
| 24. | Jannat, J., Islam, M. M., Mollah, M. Y. A., Susan, M. A. B. H. | Effect of a Water Structure Modifier on the Electrochemistry of a Redox-Active Surfactant Distinguishing from a Conventional One | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
| 25. | Hoque, M., Mollah, M. Y. A., Susan, M. A. B. H. | Synthesis and Characterization of Fe@ Au Core@shell Nanoparticles with Tunable Optical Properties using Microemulsion based Nanoreactors | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
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| 27. | Rokonuzzaman, M., Hossain, M. S., Islam, M. M., Susan, M. A. B. H., Mollah, M. Y.A. | A Facile Route to the Preparation of Nickel Nanoparticles using Poly(Vinyl Alcohol) as a Capping Agent | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
| 28. | Saha, S., Mollah, M. Y. A., Susan, M. A. B. H., Islam, M. | Recovery of Methylene Blue Adsorbed on Starch-Based Materials | Bangladesh Chemical Congress, December 07-09, 2012 | Dhaka, Bangladesh |
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| | Mollah, M. Y. A., Susan, M. A. B. H. | Tunable Morphology from Aqueous, Reverse Micellar and Hydrophilic Ionic Liquid Solutions | Conference, February 04, 2013 | Bangladesh |
| 36. | Auni, A., Mollah, M. Y. A., Susan, M. A. B. H. | Water-Ionic Liquid Binary Mixture: Variation of Physicochemical Properties with Composition | International Bose Conference, February 04, 2013 | Dhaka, Bangladesh |
| 37. | Islam, M. J., Mollah, M. Y. A., Susan, M. A. B. H. | Kinetics of Basic Hydrolysis of Crystal violet: Influence of Polymer-Surfactant Interaction | International Bose Conference, February 04, 2013 | Dhaka, Bangladesh |
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| 39. | Hoque, M., Mollah, M. Y. A. M., Rahman, M. M., Susan, M. A. B. H. | Synthesis and Characterization of Fe@Au Core@shell Nanoparticles with Tunable Optical Properties using Microemulsion-based Nanoreactors | 19 th Conference of Islamic World Academy of Sciences, May 6-104, 2013 | Dhaka, Bangladesh |
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| 42. | Begum, F., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. | Supramolecular Self-assembled Systems of Sodium Dodecyl Sulfate as Reaction Media for Basic Hydrolysis of Crystal Violet | 36 th Annual Conference of Bangladesh Chemical Society, March 01, 2014 | Hajee Danesh Science and Technology University, Dinajpur, Bangladesh |
| 43. | Roy, H. S., Mollah, M. Y. A., Susan, M. A. B. H., Islam, M. M. | Preparation, Characterization and Catalytic Application of Polyaniline-Manganese Dioxide Composite Modified Carbon Electrodes | 36 th Annual Conference of Bangladesh Chemical Society, March 01, 2014 | Hajee Danesh Science and Technology University, Dinajpur, Bangladesh |
| 44. | Keya, J. J., Mollah, M. Y. A., Islam, M. M., Susan, M. A. B. H. | Ionic Liquids as Additives for Supramolecular Interaction with Nonionic Surfactants in Aqueous Medium | 36 th Annual Conference of Bangladesh Chemical Society, March 01, 2014 | Hajee Danesh Science and Technology University, Dinajpur, Bangladesh |
| 45. | Ahmed, K., Mollah, M. Y. A., Susan, M. A. B. H. | Study of Physico-chemical Properties of Ionic Liquid-based Binary Systems | 36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014 | Hajee Danesh Science and Technology University, Dinajpur, |

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46.	Hoque, M., Mollah, M. Y. A., Susan, M. A. B. H.	Microemulsion-based Nanoreactors as Versatile Template for Synthesis and Characterization of Fe@Au Core@Shell Nanoparticles with Tunable Optical Properties	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
47.	Marium, M., Mollah, M. Y. A., Susan, M. A. B. H.	Interactions in Ionic Liquid-water Binary Systems with Varying Temperature	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
48.	Mafy, N. N., Mollah, M. Y. A., Susan, M. A. B. H.	Study of Water-urea Interactions by Near Infrared Spectroscopy	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
49.	Saha, S., Mollah, M. Y. A., Susan, M. A. B. H., Islam, M. M.	Electrosorption of Organic Dyes from Aqueous Solution	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
50.	Sultana, S. Mollah, M. Y. A., Islam, M. M., Susan, M. A. B. H.	Electrochemical Capacitive Behavior of Nickel Modified Copper Electrode Prepared by Electrodeposition Method from Aqueous, Reverse Micellar Solutions and Ionic Liquid Media	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
51.	Satter, S. S., Mollah, M. Y. A., Susan, M. A. B. H.	An Approach Towards Synthesis and Characterization of Zn@Ag Core@Shell Nanoparticles Prepared in Water-in-oil Microemulsion	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
52.	Farhana, T. I., Mollah, M. Y. A., Susan, M. A. B. H., Islam, M. M.	Electrocatalytic Reduction of Oxygen at Polyaniline-Manganese Oxide Composite/Glassy Carbon Modified Electrode in Aqueous Solution	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
53.	Afrin, T., Mollah, M. Y. A., Susan, M. A. B. H.	Temperature Dependence on Water Structure Modification by Sugars and Its Consequence on Enzyme Activity of Lipase in Aqueous and Surfactant-based Organised Media (Best Presentation Award)	36 th Annual Conference of Bangladesh Chemical Society, 01 March, 2014	Hajee Danesh Science and Technology University, Dinajpur, Bangladesh
54.	Susan, M. A. B. H., Islam, M. M., Miran, M. S., Mollah, M. Y. A.	Nanotechnology for Smart Textiles	Textile Research Conference (TRC 2014), 16 August 2014	Dhaka, Bangladesh
55.	Islam, M. M., Susan, M.	Electrochemical Treatment of	Textile Research	Dhaka,

	A. B. H., Mollah, M. Y. A.	Wastewater Containing Organic Dyes, Textile Research	Conference (TRC 2014), 16 August 2014	Bangladesh
56.	Mollah M. Y. A.	Materials for Innovation (Theme Lecture)	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
57.	Begum, F., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H.	Cetyltrimethylammonium bromide /1-butanol/cyclohexane/water Microemulsions as Media for Hydrolysis of Crystal Violet and Bromazepam	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
58.	Ara, G, Islam, M. M., Mollah, M. Y. A., Susan, M. A. B. H.	Michael Addition Reaction of Acetylacetone and Cyclohexene Catalysed by Organic Bases and Ionic Liquid	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
59.	Marium, M., Mollah, M. Y. A., Susan, M. A. B. H.	Investigation of Interactions between Ionic Liquid and Water and Its Effect on the Thermal Behavior of the Binary Systems	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
60.	Miran, M. S., Mollah, M. Y. A., Susan, M. A. B. H.	Physico-chemical Properties of Binary Mixtures of Imidazolium-Based Ionic Liquids and Molecular Solvents	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
61.	Mafy, N. N., Mollah, M. Y. A., Susan, M. A. B. H.	Perturbation from Temperature on Water Structure Modification by Urea at Different Concentrations	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
62.	Roy, H. S., Islam, M. M., Susan, M. A. B. H., Mollah, M. Y. A.	Effect of MnO ₂ Nanoparticles on the Properties of Poly(vinyl alcohol)-MnO ₂ Nanocomposite Film	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
63.	Satter, S. S., Mollah, M. Y. A., Susan, M. A. B. H.	Synthesis and Characterization of Semiconductor Core@metal Shell Nanoparticles in Water-in-Oil Microemulsion	International Conference on Materials Chemistry (ICMC-2014), 6-8 December, 2014	Sylhet, Bangladesh
64.	Mafy, N. N., Mollah, M. Y. A., Susan, M. A. B. H.	Perturbation of Water Structure due to Urea in Solution and Temperature	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
65.	Sharmin, S., Saha, S., Mollah, M. Y. A., Islam, M. M., Susan, M. A. B. H.	Tuning Anisotropy of Metallic Nickel and Cobalt Deposits- Electrodeposition from Aqueous, Reverse Micellar and Ionic Liquid Media (Invited Talk)	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
66.	Begum, F., Mollah, M. Y.	Electrodeposition of Cobalt from	Second Conference of	Dhaka,

	A., Rahman, M. M., Susan, M. A. B. H.	Reverse Microemulsion of Sodium Dodecyl Sulfate	Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Bangladesh
67.	Fatema, U. K., Rahman, M. M., Mollah, M. Y. A., Susan, M. A. B. H.	Size Controlled Synthesis of Copper Nanoparticles in Water in Oil Microemulsions	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
68.	Satter, S. S., Rahman, M. M., Mollah, M. Y. A., Susan, M. A. B. H.	Microemulsion-Based Nanoreactors for Synthesis of ZnO@Ag Core/shell Nanoparticles	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
69.	Miran, M. S., Susan, M. A. B. H., Mollah, M. Y. A.	Controllable Synthesis of ZnO Nanoparticles with Tunible Morphology and their Photocatalytic Activity	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
70.	Roy, H. S., Islam, M. M., Susan, M. A. B. H., Mollah, M. Y. A.	Fabrication of UV-Shielding Poly(vinyl alcohol)-MnO ₂ Nanocomposite Films	Second Conference of Bangladesh Crystallographic Association (BCA-2015), 10 January, 2015	Dhaka, Bangladesh
71.	Begum, F., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. S.	Sodium dodecyl sulfate/1- butanol/cyclohexane/water Microemulsions as Media for the Hydrolysis of Crystal Violet	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
72.	Ara, G., Islam, M. M., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. S.	Michael Addition Reaction of Acetylacetone and Cyclohexenone Catalysed by an Ionic Liquid and Its Binary Mixtures with Strong Base and Water	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
73.	Fatema, U. K., Rahman, M. M., Mollah, M. Y. A., Rahman, M. M., Susan, M. A. B. H. S.	Preparation of Silver-Poly(vinyl alcohol) Nanocomposite Film Using Water in Oil Microemulsions	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
74.	Roy, H. S., Islam, M. M., Susan, M. A. B. H. S., Mollah, M. Y. A.	Fabrication of UV-Shielding Poly(vinyl alcohol)-MnO ₂ Nanocomposite Thin Films	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
75.	Alam, S., Mollah, M. Y. A., Susan, M. A. B. H. S.	Structural Studies of 1-butyl-3- methylimidazolium Hexafluorophosphate/ TX-100/Water Ionic Liquid Microemulsion	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
76.	Afrose, M., Ahmed, M. O., Mollah, M. Y. A., Susan, M. A. B. H. S.	Study of Physicochemical Properties of Imidazolium based Ionic Liquid in Pure and Mixed Polar Solvents	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
77.	Satter, S. S., Mollah, M. Y. A., Susan, M. A. B. H. S.	Versatility of Water-in-oil Microemulsion for Synthesis and Characterization of ZnO@Ag Core@shell Nanoparticles	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
78.	Marium, M., Rahman, M.	Molecular Level Interactions in	Annual Conference of	Comilla,

	M., Mollah, M. Y. A., Susan, M. A. B. H. S.	Binary Mixtures of 1-Ethyl 3-methylimidazolium Tetrafluoroborate and Water	Bangladesh Chemical Society 11 April, 2015	Bangladesh
79.	Hafiz, F. H. B., Islam, M. M., Haque, M. A., Susan, M. A. B. H. S., Mollah, M. Y. A.	Electrochemical Study of Sol-gel Transition for Polymerization of Acrylamide	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
80.	Mafy, N. N., Rahman, M. M., Mollah, M. Y. A., Susan, M. A. B. H. S.	Water Structure Modification by Urea at Different Temperatures	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
81.	Nasrin, S. R., Mollah, M. Y. A., Susan, M. A. B. H. S.	Physico-chemical Properties of Binary Mixtures of an Imidazolium based Ionic Liquid and Molecular Solvents	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
82.	Hossain, M. S., Mollah, M. Y. A., Susan, M. A. B. H. S. Islam, M. M.	Electrochemical Oxygen Reduction Reaction Assisted Catalytic Degradation of Organic Dyes in Aqueous Solutions	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
83.	Mahamud, M. N., Mollah, M. Y. A., Susan, M. A. B. H. S.	Phase Analysis of Tween 20/Pentanol/Cyclohexane/Water Microemulsions using Percolation Theory	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
84.	Akther, M., Rahman, M. M., Mollah, M. Y. A., Susan, M. A. B. H. S.	Morphology Analysis of ZnO Nanoparticles Prepared in Presence of an Ionic Liquid	Annual Conference of Bangladesh Chemical Society 11 April, 2015	Comilla, Bangladesh
85.	Adhip Rahman, M. Muhibur Rahman, M. Yousuf A. Mollah and Md. Abu Bin Hasan Susan	<i>Nanodroplets in 1-Ethyl-3-methylimidazolium Trifluoromethanesulphonate-based Microemulsions: Dynamic Percolation and Swollen Behavior</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Department of Chemistry, Rajshahi University, Bangladesh
86.	Md. Tusar Uddin, Muhammed Shah Miran, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan,	<i>Synthesis of MnO₂ and PANi-MnO₂ with Tunable Morphology by Hydrothermal Method</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Department of Chemistry, Rajshahi University, Bangladesh
87.	Md. Mominul Islam Md. Saddam Hossain, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Md. Mominul Islam	<i>Treatment of textile wastewater with in-situ electrogenerated reactive oxygen species in aqueous solution</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Department of Chemistry, Rajshahi University, Bangladesh
88.	Mousumi Akter, M. Muhibur Rahman, M. Yousuf A. Mollah and Md. Abu Bin Hasan Susan	<i>Hydrphilic ionic liquid-assisted synthesis of ZnO nanostructures by hydrothermal method and their antibacterial and optical properties</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Department of Chemistry, Rajshahi University, Bangladesh
89.	Md. Mahmudul Hasan, a M. Muhibur Rahman, M. Yousuf A. Mollah and Md. Abu Bin Hasan Susan	<i>Synthesis and characterization of TiO₂ nanotube/polypyrrole/MnO₂ ternary nanocomposite materials</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Department of Chemistry, Rajshahi University, Bangladesh
90.	Hemshankar Saha Roy, Md. Mominul Islama, M. Yousuf Ali Mollah, Md.	<i>Poly(vinyl alcohol)-MnO₂ Nanocomposites as Materials for Electrochemical Capacitors</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Rajshahi University,

	Abu Bin Hasan Susan			Bangladesh
91.	GulshanAraa, Md. MominulIslama, Md.Yousuf Ali Mollahb and Md. Abu Bin Hasan Susana	<i>Synthesis of 1,8-diazabicyclo[5.4.0]-undec-7-ene (DBU) Based Aprotic Ionic Liquid and Study of Physicochemical Properties of its Binary Mixtures with Water</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Rajshahi University, Bangladesh
92.	Ferdousi Beguma, Shirin Akhter Jahana, Md. Yousuf Ali Mollahb, M. Muhibur Rahmanb and Md. Abu Bin Hasan Susan	<i>Stability and aggregation kinetics of silver nanoparticles in water in oil microemulsions of cetyltrimethylammonium bromide</i>	International Conference on nanotechnology and nanocomposite April 2-3 2017	Rajshahi University, Bangladesh
93.	Md. Golam Rabbani, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Md. Mominul Islam	<i>Electrochemical performance of PANi/MnO₂ modified glassy carbon electrode in different surfactant based media</i>	Bangladesh Crystallographic association, 4 th Conference	January 2018 Dhaka University
94.	Md. Rezaur Rahman, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Md. Mominul Islam	<i>Functionalization of jute fibre by chemical method</i>	Bangladesh Crystallographic association, 4 th Conference	January 2018 Dhaka University
95.	Hemshankar Saha Roy, M. Yousuf A. Mollah, Md. Mominul Islam and Md. Abu Bin Hasan Susan	<i>Thermal and Electrical properties of polyaniline-NiO nanocomposite</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh, 2018
96.	Gulshan Ara, Adip Rahman, M. Yousuf A. Mollah, Md. Mominul Islam and Md. Abu Bin Hasan Susan	<i>Synthesis of aprotic ionic liquids derived from 1,8-diazabicyclo[5,4,0]-undec-7-ene (DBU) and characterization</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
97.	Adip Rahman, Mohammad A. Halim, M. Yousuf A. Mollah and Md. Abu Bin Hasan Susan	<i>Orientation of ions affecting interionic binding in room temperature ionic liquids: case of [C₂mim][BF₄] and [C₂mim][TfO] ion pair dimers</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
98.	Ferdousi Begom, M. Yousuf A. Mollah, M. Muhibur Rahman and Md. Abu Bin Hasan Susan	<i>Correlation of properties of microemulsions with kinetic results of hydrolysis of crystal violet</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
100.	Amiya Atahar, M. Yousuf A. Mollah, M. Muhibur Rahman and Md. Abu Bin Hasan Susan	<i>Effect of temperature on inclusion complex of β-cyclodextrin and 1-butyl-3-methylimidazolium hexafluoro phosphate in water</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
101.	Samira Mahmud, M. Yousuf A. Mollah and Md. Abu Bin Hasan Susan	<i>Nano engineering of Au@Agcore@shell particles</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
102.	Md. Golam Rabbani, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and	<i>Comparative study of capacitive behavior of Pani and Pani/MnO₂ in surfactant based aqueous media</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018

	Md. Mominul Islam			Technol, Bangladesh 2018
103.	Md. Rezaur Rahman, Md. Shah Miran, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Md. Munimul Islam	<i>Chemical modification of jute fiber by reactive oxygen species</i>	International Conference on Chemical Science & Technology	Khulna University of Engg. & Technol, Bangladesh 2018
104.	Md. Sadman Hossain, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan and Md. Munimul Islam	<i>Degradation of organic dye by in-situ electrogenerated reactive oxygen species at manganese dioxide modified glassy carbon electrode in aqueous solution</i>	International Conference on Chemical Science & Technology	International Conference on Chemical Science & Technology 2018
105.	Md. Shahriar Hasan Saikat, Md. Abu Bin Hasan Susan, Md. Mominul Islam, M. Yousuf A. Mollah, <u>Muhammed Shah Miran</u>	<i>Binary Mixture of Protic Ionic Liquids with Molecular Solvents as Fuel Cell Electrolytes</i>		

New Research

1. Md. Abu Bin Hasan Susan, M. Y A Mollah, M. M. Rahman, F. Begum, Saika Ahmed, Self Association of Surfactants and Supramolecular Interactions- Polymer-Surfactant, Ionic Liquid-Surfactant and Other Promising Systems.
2. Md. Abu Bin Hasan Susan, Mohammad Y A Mollah, Ajaya Kumar Singh, Shazia Sharmin Satter, M. Muhibur Rahman, Ionic Liquids and Their Application as Anhydrous Proton Conductors, Solar Cells, Actuators and Super Capacitors.
3. M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan, Muhammed Shah Miran, Md. Mominul Islam and Md. Sirajul Islam. Smart Materials and Their Applications.