

# Curriculum Vitae



## Prof. Dr. Mohammed Mizanur Rahman

Director, Institute of Leather Engineering and Technology (ILET), University of Dhaka

Professor of Applied Chemistry and Chemical Engineering, University of Dhaka

Visiting Professor of Kumamoto University, Japan and University of Duisburg-Essen, Germany

Fellow of Alexander von Humboldt (AvH-Humboldt), Germany & Japan Society for the Promotion of Science (JSPS), Japan

Gold Medal Recipient of Bangladesh Academy of Science (BAS) & Third World Academy of Science (TWAS) (Triste, Italy)

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### POSITION HELD (Administrative and Academic); Total Professional Experiences: 22 Years Period(s)

9/2020~	<b>Director, Institute of Leather Engineering and Technology (ILET), University of Dhaka</b>
1/2014 ~	Professor, Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering and Technology, University of Dhaka.
7/2015 ~6/2020	Director and CEO, National Institute of Textile Engineering and Research (NITER), (A Premier Engineering Education and Research Institute of Bangladesh). Nayarhat, Savar. <a href="http://www.niter.edu.bd">www.niter.edu.bd</a>
12/2019~	Member, National Strategic and Planning Committee (NSPC), College Education Development Project (CEDP), Ministry of Education, Govt. of the Peoples Republic of Bangladesh.
1/2014~	Member, National Science and Technology Fellowship Committee (NST-Fellowship), Ministry of Science and Technology (MoST), Govt. of the Peoples Republic of Bangladesh.
1/2018 ~	Independent Director and EC Member, Social Islami Bank Ltd. (SIBL); Nominated Director MAKSONS spinning Ltd. (Leading Textile industry in Bangladesh)
1/2015 ~	Member, Governing Body, Enam Medical College, Savar, East-West Medical College, Uttara, Dhaka, Nitingle Medical College, Ashulia Savar and Johurul Islam Nursing College, Kishorganj.
7/2015~	Syndicate Member, University of Dhaka (Period: 07/2015-02/2018)
1/ 2014 ~	Member, Academic Council, University of Dhaka.
1/ 2014~	Member, Selection Committee of Lecturer to Professor of Dhaka University, Jashore Science and Technology University (JUST), DUET, Gazipur; Bangabondhu Sheikh Mujibor Rahman Science and Technology University, Gopalganj and Noakhali Science and Technology University.
7/2015 ~	Project Standing Committee Member, Skill for Employment Investment Program (BTMA-SEIP), Ministry of Finance, Govt of the Peoples Republic of Bangladesh

### EDUCATION

Period(s)	Institutions, Degrees Awarded, Specialization/subjects, and Division/class
2011~13	Alexander von Humboldt ( <b>AvH-Humboldt</b> ) Post-Doctoral Fellow (University of Duisburg-Essen, Germany)
2006~08	Japan Society for the Promotion of Science ( <b>JSPS</b> ) Post-Doctoral Fellow (Kumamoto University, Japan)
2005	<b>Doctor of Philosophy (Ph.D.)</b> in Analytical and Environmental Chemistry, Graduate School of Science and Technology, Kumamoto University, Japan: Field of Study: Materials and Life Sciences; Grade: Conferred
1996	<b>Master of Science (MSc)</b> in Applied Chemistry and Chemical Engineering, University of Dhaka. Field of Study: Polymers and Biomaterials; Grade/Class: <i>First Class Second Position</i>
1995	<b>Bachelor of Science (BSc)</b> in Applied Chemistry and Chemical Engineering, University of Dhaka. Grade/Class: <i>First Class Fourth Position</i>
1991	<b>Higher Secondary Certificate (HSC)</b> , Field of Study: Science; Division: First Division, Dhaka Board
1989	<b>Secondary School Certificate (SSC)</b> , Field of Study: Science; Division: First Division, Dhaka Board

## **LIST OF PUBLICATIONS**

1. S H Rimu and **M M Rahman**, Insight of chitosan-based nanocomposite for removal of hexavalent chromium from wastewater- a review, *International Journal of Environmental Analytical Chemistry*; pp 1-18, (2020) <https://doi.org/10.1080/03067319.2020.1817426>
2. **MM Rahman** and SH Rimu, Recent development in cellulose nanocrystal-based hydrogel for decolouration of methylene blue from aqueous solution: a review, *International Journal of Environmental Analytical Chemistry*; pp 1-18, (2020) <https://doi.org/10.1080/03067319.2020.1817424>
3. **M M Rahman**, S H Rimu, S Biswas, T U Rashid, A H Chisty, M A Rahman, S Murad, P Haque, Recent development in cellulose nanocrystal-based hydrogel for decolouration of methylene blue from aqueous solution: a review, *International Journal of Environmental Analytical Chemistry*; pp 1-17, (2020) <https://doi.org/10.1080/03067319.2020.1813732>
4. MD Islam, MM Hasan, A Rahaman, P Haque, MS Islam, **MM Rahman** "Translocation and bioaccumulation of trace metals from industrial effluent to locally grown vegetables and assessment of human health risk in Bangladesh", *SN Applied Sciences* 2 (8), 1-11 (2020).
5. MM Hasan, ML Habib, M Anwaruzzaman, M Kamruzzaman, MN Khan, **MM Rahman** "Processing techniques of chitosan-based interpenetrating polymer networks, gels, blends, composites and nanocomposites" *In Handbook of Chitin and Chitosan: Volume 2: Composites and Nanocomposites*, 2020.
6. AH Chisty, RA Masud, M Mehedi, M Hasan, AK Mallik, **MM Rahman** "PEGylated chitin and chitosan derivatives" *In Handbook of Chitin and Chitosan: Volume 1: Preparation and Properties*, 2020.
7. RA Masud, MS Islam, P Haque, MNI Khan, M Shahruzzaman, M Khan, M. Takafuji, **MM Rahman** "Preparation of novel chitosan/poly (ethylene glycol)/ZnO bionanocomposite for wound healing application: effect of gentamicin loading" *Materialia*, 100785 (2020).
8. MA Rahman, MS Islam, P Haque, M N Khan, M Takafuji, M Begum, G W Chowdhury, M Khan, **MM Rahman** "Calcium ion mediated rapid wound healing by nano-ZnO doped calcium phosphate-chitosan-alginate biocomposites" *Materialia*, 2000328 (2020).
9. A Al-Mamun, P Haque, T Debnath, MF Rahman, JMM Islam, **MM Rahman** " $\gamma$ -Irradiated gelatin and polyvinyl alcohol films as artificial articular cartilage" *Journal of Thermoplastic Composite Materials* 33 (5), 614-627 (2020).
10. T Debnath, MS Islam, S Hoque, P Haque, **MM Rahman** "Preparation and characterization of chitosan grafted poly (lactic acid) films for biomedical composites" *Journal of Polymer Engineering*, 40(4), 333-341(2020).
11. S Biswas, TU Rashid, T Debnath, P Haque, **MM Rahman** "Application of Chitosan-Clay Biocomposite Beads for Removal of Heavy Metal and Dye from Industrial Effluent" *Journal of Composites Science* 4 (1), 1-14 (2020)
12. MM Hasan, AH Chisty, **MM Rahman**, MN Khan "Bioprotein Based IPN Nanoparticles as Potential Vehicles for Anticancer Drug Delivery: Fabrication Technology" *Interpenetrating Polymer Network: Biomedical Applications*, 183-203 (2020).
13. M Shahruzzaman, MM Islam, MS Islam, MN Sakib, AK Mallik, P Haque, **MM Rahman** "Semi-IPN Systems for Drug Delivery" in Book *Interpenetrating Polymer Network: Biomedical Applications*, 205-236 (2020).
14. FT Zohora, MS Islam, MS Bashar, P Haque, **MM Rahman** "Preparation and Characterization of Thin Conductive Nanocomposite Film from Dispersed Multiwall Carbon Nanotubes Reinforced Chitosan/Polyvinyl Alcohol Blend" *Science Research*, 7 (6), 78 (2019).
15. MN Islam, MN Khan, AK Mallik, **MM Rahman** "Preparation of bio-inspired trimethoxysilyl group terminated poly (1-vinylimidazole)-modified-chitosan composite for adsorption of chromium (VI) ions" *Journal of hazardous materials* 379, 120792-13 (2019).
16. AH Chisty, AK Mallik, FN Robel, M Shahruzzaman, P Haque, KS Hossain, **MM Rahman** "Enhanced Epoxy/GO Composites Mechanical and Thermal Properties by Removing Air Bubbles with Shear Mixing and Ultrasonication" *ChemistrySelect* 4 (38), 11417-11425 (2019).
17. M Shahruzzaman, S Biswas, MN Sakib, P Haque, **MM Rahman**, AK Mallik "Pharmaceutical Applications of Agar-Agar" in Book *Natural Polymers for Pharmaceutical Applications*, 71-86, 2019.
18. MN Sakib, MM Islam, M Sharuzzaman, P Haque, **MM Rahman**, "Pharmaceutical Applications of Sterculia Gum" in Book *Natural Polymers for Pharmaceutical Applications: Volume 1: Plant-Derived* 2019.
19. S Biswas, S Sharmeen, MM Islam, **MM Rahman**, P Haque "Pharmaceutical Applications of Okra Gum in Book *Natural Polymers for Pharmaceutical Applications: Volume 1: Plant-Derived* 2019.

20. MA Hannan, P Haque, SMF Kabir, **MM Rahman** "Chemical-Free Scouring and Bleaching of Cotton Knit Fabric for Optimum Dyeing Performance, *Clothing and Textiles Research Journal* 37 (4), 265-280 (2019).
21. AK Mallik, ML Habib, FN Robel, M Shahruzzaman, P Haque, **MM Rahman**, Reduced Graphene Oxide (rGO) Prepared by Metal-Induced Reduction of Graphite Oxide: Improved Conductive Behavior of a Poly (methyl methacrylate)(PMMA)/rGO Composite, *ChemistrySelect* 4 (27), 7954-7958 (2019).
22. Md. Abdulla-Al-Mamun, **MM Rahman** "Dual cocatalysts induced photocurrent enhancement of LaTiO<sub>2</sub>N photoanode" *Materials Letters* 245 (15), 147-150 (2019).
23. **MM Rahman**, M Shahruzzaman, MS Islam, MN Khan, P Haque "Preparation and properties of biodegradable polymer/nano-hydroxyapatite bioceramic scaffold for spongy bone regeneration" *Journal of Polymer Engineering* 39 (2), 134-142 (2019).
24. AK Mallik, S Guragain, **MM Rahman**, M Takafuji, H Ihara "L-Lysine-derived highly selective stationary phases for hydrophilic interaction chromatography: Effect of chain length on selectivity, efficiency, resolution, and asymmetry" *Separation Science Plus* 2 (2), 42-50 (2019).
25. AK Mallik, N Sakib, A Zaman, S Rahman, M Islam, S Islam, P Haque, **MM Rahman** "Benefits of Renewable Hydrogels over Acrylate-and Acrylamide-Based Hydrogels" In Books *Springer Science and Business Media LLC*, 4\* 2019.
26. AK Mallik, M Shahruzzaman, A Zaman, S Biswas, T Ahmed, MN Sakib, **MM Rahman** "Fabrication of polysaccharide-based materials using ionic liquids and scope for biomedical use" *Functional Polysaccharides for Biomedical Applications*, 131-171, (2019).
27. S Sharmeen, MS Rahman, MM Islam, MS Islam, M Shahruzzaman, **MM Rahman** "Application of polysaccharides in enzyme immobilization" *Functional Polysaccharides for Biomedical Applications*, 357-395, 2019.
28. MS Rahman, MM Islam, MS Islam, A Zaman, T Ahmed, S Biswas, **MM Rahman** "Morphological Characterization of Hydrogels" in *Book Polymers and Polymeric Composites: A Reference Series*, 819-863, Vol-3, 2019.
29. Md. Abdulla-Al-Mamun; Mohammed Mizanur Rahman; Sayed Md. Shamsuddin (2019): Dual cocatalysts induced photocurrent enhancement of LaTiO<sub>2</sub>N photoanode, *Materials Letters* (accepted for publication, MLBLUE-D-19-00472R4).
30. Abul K. Mallik; Sudhina Guragain; Mohammed Mizanur Rahman; Makoto Takafuji; Hirotaka Ihara (2019): L-Lysine-derived highly selective stationary phases for hydrophilic interaction chromatography: Effect of chain length on selectivity, efficiency, resolution, and asymmetry, *Separation Science Plus*, Vol. 2: pp 42-50.
31. Mohammed Mizanur Rahman, M Shahruzzaman, MS Islam, MN Khan, P Haque (2019): Preparation and properties of biodegradable polymer/nano-hydroxyapatite bioceramic scaffold for spongy bone regeneration, *Journal of Polymer Engineering*, 39 (2), 134-142.
32. Abdullah Al-Mamun; Papia Haque; Tonmoy Debnath; M. Fizur Rahman; Jahid MM Islam; Mohammed Mizanur Rahman; Mubarak Ahmed Khan (2019):  $\gamma$ -Irradiated gelatin and polyvinyl alcohol films as artificial articular cartilage, *Journal of Thermoplastic Composite Materials*, Publication date-2018/12/16 (DOI: 0892705718808555).
33. Tonmoy Debnath; Md. Sazedul Islam; Md. Shirajul Haq; Papia Haque; Mohammed Mizanur Rahman (2019): Preparation and characterization of chitosan grafted poly (lactic acid) films for biomedical application, *Iranian Journal of Materials Science and Engineering*.
34. MA Hannan, P Haque, SMF Kabir and Mohammed Mizanur Rahman (2019): Scope of Sustainable Pretreatment of Cotton Knit Fabric Avoiding Major Chemicals, *Journal of Natural Fibers*, pp 1-12.
35. Abul Mallik, Mohammad Shahruzzaman, Md Nurus Sakib and Mohammed Mizanur Rahman, Benefits of Renewable Hydrogels over Acrylate- and Acrylamide-Based Hydrogels, In book: *Cellulose-Based Superabsorbent Hydrogels* (DOI: 10.1007/978-3-319-77830-3\_10), January 2019.
36. Taslim U. Rashid, Sadia Sharmeen, Shanta Biswas and Mohammed Mizanur Rahman, Gelatin-Based Hydrogels, In book: *Cellulose-Based Superabsorbent Hydrogels* (DOI: 10.1007/978-3-319-77830-3\_53), January 2019.
37. Md. Shirajur Rahman, Md. Sazedul Islam, Md. Minhajul Islam and Mohammed Mizanur Rahman, Morphological Characterization of Hydrogels, In book: *Cellulose-Based Superabsorbent Hydrogels* (DOI:10.1007/978-3-319-77830-3\_28), January 2019.
38. Md. Nazrul Islam, M. Nuruzzaman Khan, Abul K. Mallik and Mohammed Mizanur Rahman, Preparation and characterization of trimethoxysilyl terminated poly (1-vinylimidazole)-modified-chitosan composite for adsorption of chromium (VI) ions from aqueous solution, *Journal of Hazardous Materials* (Accepted for Publication, February, 2019).

39. Md. Abdul Hannan, Papia Haque and Mohammed Mizanur Rahman, Chemical-free scouring and bleaching of cotton knit fabric for optimum dyeing, *Clothing and Textile Research Journal* (Accepted for Publication, February, 2019).
40. Shanta Biswas, Md. Minhajul Islam, M. Mehedi Hasan, Sunzida H. Rimu, Papia Haque and Mohammed Mizanur Rahman (2018): Evaluation of Cr (VI) Ion Removal from Aqueous Solution by Bio-Inspired Chitosan-Clay Composite: Kinetics and Isotherms, *Iranian Journal of Chemical Engineering*, Vol. 15, No. 4, IACHE, pp 1-18.
41. Sanjida Afrin, M. N. Khan, Papia Haque, Mohammed Mizanur Rahman (2018): Determination of Serum Copper and Zinc Level of Bangladeshi Breast Cancer Patient, *ARC Journal of Cancer Science*, Volume 4, Issue 2, pp.7-11 (DOI: <http://dx.doi.org/10.20431/2455-6009.0402002>).
42. Abul Mallik, Mohammed Mizanur Rahman, Hirotaka Ihara. (2018): Peptide-Based Derivative-Grafted Silica for Molecular Recognition System, in book: *Biopolymer Grafting: Synthesis and Properties*, Chapter 6, pp 235-294, January 2018 (DOI: 10.1016/B978-0-323-48104-5.00006-8).
43. M. Mehedi Hasan; M. Nuruzzaman Khan; Papia Haque; Mohammed Mizanur Rahman (2018): Novel alginate-dialdehyde cross-linked gelatin/nano-hydroxyapatite bioscaffolds for soft tissue regeneration, *International Journal of Biological Macromolecules*, Vol 117, pp. 1110-1117.
44. Tanjina Islam; Khandaker S. Salem; Shanta Biswas; Papia Haque; Sunzida H. Rimu; Mohammed Mizanur Rahman (2018): Preparation of Carbon Nanotube Reinforced Gelatin-Chitosan-Hydroxyapatite Biocomposite for Bone Tissue Engineering, *Open Access Journal of Biomedical Engineering and its Applications*, 1(3)- 2018. OAJBEA.MS.ID.000112.
45. Abul K. Mallik, H. Noguchi, Mohammed Mizanur Rahman, M. Takafuji, H. Ihara. Facile preparation of an alternating copolymer-based high molecular shape-selective organic phase for reversed-phase liquid chromatography, *Journal of Chromatography A*, Vol. 1555, pp. 53-61, 2018.
46. Md. Minhajul Islam, Shanta Biswas, M. Mehedi Hasan, Sunzida H. Rimu, Papia Haque and Mohammed Mizanur Rahman (2018): Studies of Cr (VI) adsorption on novel jute cellulose-kaolinite clay biocomposite, *Desalination and Water Treatment*, Vol. 123, pp.265-276.
47. Md. Shirajur Rahman, Md. Minhajul Islam, Md. Sazedul Islam, Asaduz Zaman, Tanvir Ahmed, Shanta Biswas, Taslim U Rashid, Mohammed Mizanur Rahman (2018): "Morphological Characterization of Hydrogel", in book- "Cellulose based superadsorbent hydrogel" Springer Publisher, Switzerland, pp 1-48.
48. Mohammad Shaaruzzaman, Md. Minhajul Islam, Md. Sazedul Islam, Shanta Biswas, Papia Haque, Mohammed Mizanur Rahman (2018): "Trends and Evolution of Polymer in Furniture Industry" " Encyclopedia of Polymer Applications" Edited by M K Misra, Taylor and Francis Publications, NY, USA.
49. Sadia Sharmeen and Mohammed Mizanur Rahman (2018) "Application of Polysaccharides in Enzyme Immobilization" in *Functional Polysaccharides for Biomedical Applications* edited by Drs Maiti & Jana, Elsevier Publishers, USA, 2018.
50. Md. Minhajul Islam and Mohammed Mizanur Rahman (2018): "An overview of polysaccharide based porous hydrogels for therapeutic application" in *Functional Polysaccharides for Biomedical Applications* edited by Drs Maiti & Jana, Elsevier Publishers, USA, 2018.
51. Shanta Biswas and Mohammed Mizanur Rahman (2018): "Development and Implantation of Biomaterials in Medical Devices and Artificial Organs" in *Functional Polysaccharides for Biomedical Applications* edited by Drs Maiti & Jana, Elsevier Publishers, USA, 2018.
52. Romana Nasrin, Shanta Biswas, Taslim Ur Rashid, Sanjida Afrin, Rumana Akhter Jahan, Papia Haque, and Mohammed Mizanur Rahman. "Preparation of Chitin-PLA laminated composite for implantable application." *Bioactive Materials*, Vol. 2 (4), pp. I199-207, 2017.
53. Sanjida Afrin, Hasina Akhter Simol, Gazi Nurun Nahar Sultana, Md. Sazedul Islam, Papia Haque, M. Nuruzzaman Khan and Mohammed Mizanur Rahman, Determination of serum methylparaben concentrations of Bangladeshi breast cancer patients by RP-HPLC, *Analytical Chemistry Letters*, Vol. 7 (5), pp. 589-595, 2017.
54. Md. Minhajul Islam, M. Nuruzzaman Khan, Shanta Biswas, Tasrina Rabia Choudhury, Papia Haque, Taslim U. Rashid, and Mohammed Mizanur Rahman. "Preparation and characterization of bijoypur clay-crystalline cellulose composite for application as an adsorbent." *Advanced Material Science* Vol. 2(3), pp 1-9, 2017.
55. Md Sazedul Islam, Papia Haque, Taslim U. Rashid, M. Nuruzzaman Khan, Abul K. Mallik, M. Nazrul I. Khan, Mala Khan, and Mohammed Mizanur Rahman. "Core-shell drug carrier from folate conjugated chitosan obtained

from prawn shell for targeted doxorubicin delivery." *Journal of Materials Science: Materials in Medicine* Vol. 28(4), pp 55, 2017.

56. Shanta Biswas, Taslim U. Rashid, Abul K. Mallik, Md Minhajul Islam, M. Nuruzzaman Khan, Papia Haque, Mala Khan, and Mohammed Mizanur Rahman. "Facile Preparation of Biocomposite from Prawn Shell Derived Chitosan and Kaolinite-Rich Locally Available Clay." *International Journal of Polymer Science*, 2017, pp 1-8, 2017 (<https://doi.org/10.1155/2017/6472131>).
57. Rashid, Taslim U., Md Islam, Sadia Sharmeen, Shanta Biswas, Asaduz Zaman, M. Nuruzzaman Khan, Abul K. Mallik, Papia Haque, and Mohammed Mizanur Rahman. "Applications of Chitosan Derivatives in Wastewater Treatment." *Handbook of Composites from Renewable Materials* (July, 2017), Wiley Online Library, NJ, USA. Chapter 17, Page: 471-517.
58. M. Nuruzzaman Khan, Shanta Biswas, Md. Sazedul Islam, Taslim Ur Rashid, Sadia Sharmeen, Md. Shaharuzzaman, Md. Minhajul Islam, Md. Shirajur Rahman, Abul K Mallik, Asaduzzaman, Papia Haque, and Mohammed Mizanur Rahman "Green Biocomposites from Renewable Biopolymers and Their Biomedical Application." *Biocomposites: Properties, Performance and Applications* (2017), Nova Scientific Publishers, NY, USA. Page: 473-541.
59. Shamima Eaysmine, Papia Haque, Taslima Ferdous, Md Abdul Gafur, and Mohammed M. Rahman "Potato starch-reinforced poly (vinyl alcohol) and poly (lactic acid) composites for biomedical applications." *Journal of Thermoplastic Composite Materials* Vol. 29(11), pp 1536-1533, 2016.
60. MA Rahman Bhuiyan, Mohammed Mizanur Rahman, Abu Shaid, M. M. Bashar, and Mubarak A. Khan. "Scope of reusing and recycling the textile wastewater after treatment with gamma radiation." *Journal of Cleaner Production* Vol. 112, pp 3063-3071, 2016.
61. M Nuruzzaman Khan, Ismat Zerin Luna, Md Minhajul Islam, Sadia Sharmeen, Khandaker S Salem, Taslim U Rashid, Asaduz Zaman, Papia Haque and Mohammed Mizanur Rahman, *Cellulase in Waste Management Applications, New and Future Developments in Microbial Biotechnology and Bioengineering*, Gupta, V. K., Ed. Chapter 21, Elsevier, The Netherlands, 2016, 1st Edition Page: 237-256.
62. Khandoker Samaher Salem , Taslim Ur Rashid , Asaduzzaman , Md. Minhajul Islam , Md. Nuruaman Khan , Sadia Sharmeen, Mohammed Mizanur Rahman and Papia Haque. "Recent Updates on Immobilization of Microbial Cellulase. *New and Future Developments in Microbial Biotechnology and Bioengineering*, Gupta, V. K., Ed. Chapter 11, Elsevier, The Netherlands, 2016, 1st Edition Pages: 107-139.
63. Taslim Ur Rashid, Khandoker S. Salem, Md. Minhajul Islam, Asaduz Zaman, M. Nuruzzaman Khan, Ismat Z. Luna, Papia Haque and Mohammed Mizanur Rahman. "Recent Developments of Microbial Fuel Cell as Sustainable Bio-Energy Sources." *Microbial Catalysts*, Gupta, V. K., Ed. Springer: Germany, 2015.
64. M. Nuruzzaman Khan, Ismat Z. Luna, Taslim Ur Rashid, Khandoker S. Salem, Md. Minhajul Islam, Asaduz Zaman, Sadia Sharmeen, PapiaHaque and Mohammed Mizanur Rahman. "Microbial Enzyme: an Effective Replacement of Industrial Catalyst." *Microbial Catalysts*, Gupta, V. K., Ed. Springer: Germany, 2016.
65. Asaduz Zaman, Papia Haque, Taslim U. Rashid, Md. Minhajul Islam, Khandoker S. Salem, Sadia Sharmeen, M. Nuruzzaman Khan, and Mohammed Mizanur Rahman. "Potential Application of Microbial Catalyst in Food Biotechnology." *Microbial Catalysts*, Gupta, V. K., Ed. Springer: Germany, 2016 (Published).
66. Md. Minhajul Islam, Ismat Z. Luna, Sadia Sharmeen, Taslim U. Rashid, Md. Nuruzzaman Khan, Khandoker S. Salem, Asad Uzzaman, Papia Haque and Mohammed Mizanur Rahman. "Beneficial Role of Microbial Catalyst for Sustainable Environment." *Microbial Catalysts*, Gupta, V. K., Ed. Springer: Germany, 2016 (Published).
67. Taslim U. Rashid, Md. Sazedul Islam, Sadia Sharmeen, Shanta Biswas, Asaduz Zaman, M. Nuruzzaman Khan, Abul K. Mallik, Papia Haque, and Mohammed Mizanur Rahman. "Applications of Chitosan Derivatives in Wastewater Treatment." Volume 6: "Polymeric Composites" In *Handbook of Composite from Renewable Materials*, Thakur, V.; Thakur, M.; and Kessler, M. R.; Ed. Wiley- Scrivener Publishing LLC, USA 2016.
68. Mohammed Mizanur Rahman, XLO Barajas, JLH Luján, MA Jochmann, C Mayer Core-Shell Hybrid Particles by Alternating Copolymerization of Ionic Liquid Monomers from Silica as Sorbent for Solid Phase Microextraction, *Macromolecular Materials and Engineering* Vol.300 (11), 1049-1056, 2015
69. MA Rahman Bhuiyan, Mohammed Mizanur Rahman, Abu Shaid, and M. A. Khan. "Decolorization of textile wastewater by gamma irradiation and its reuse in dyeing process." *Desalination and Water Treatment* Vol. 54(10), pp 2848-2855, 2015.
70. Md Minhajul Islam, Mubarak A. Khan, Mohammed Mizanur Rahman "Preparation of gelatin based porous biocomposite for bone tissue engineering and evaluation of gamma irradiation effect on its properties." *Materials Science and Engineering: C* Vol. 49, pp 648-655, 2015.

71. Asaduz Zaman, Taslim Ur Rashid, Mubarak A. Khan, Mohammed Mizanur Rahman "Preparation and characterization of multiwall carbon nanotube (MWCNT) reinforced chitosan nanocomposites: Effect of gamma radiation." *BioNanoScience* Vol. 5 (1), pp 31-38, 2015.
72. Taslim Ur Rashid, Khandoker S. Salem, Md. Minhajul Islam, Asaduz Zaman, M. Nuruzzaman Khan, Ismat Z. Luna, Papia Haque and Mohammed Mizanur Rahman, 'Recent Developments of Microbial Fuel Cell as Sustainable Bio-Energy Sources.' *Microbial Catalysts*, Gupta, V. K., Ed. Springer: Germany, 2015 (Published).
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74. Taslim Ur Rashid, Mubarak A. Khan, Mohammed Mizanur Rahman "Evaluation of fat binding capacity of gamma irradiated chitosan extracted from prawn shell." *Soft Materials* Vol. 12 (3), pp 262-267, 2014.
75. Md Minhajul Islam, Asaduz Zaman, Md Shahidul Islam, Mubarak A. Khan, Mohammed Mizanur Rahman "Physico-chemical characteristics of gamma-irradiated gelatin." *Progress in Biomaterials* Vol 3(1) p 21, 2014.
76. Mohammed Mizanur Rahman, Sanjida Afrin, and Papia Haque. "Characterization of crystalline cellulose of jute reinforced poly (vinyl alcohol)(PVA) biocomposite film for potential biomedical applications." *Progress in Biomaterials* Vol 3(1) (2014): 23.
77. Mohammed Mizanur Rahman, Sanjida Afrin, Papia Haque, Md Minhajul Islam, Mohammed Shahidul Islam, and Md Abdul Gafur. "Preparation and characterization of jute cellulose crystals-reinforced poly (l-lactic acid) biocomposite for biomedical applications." *International Journal of Chemical Engineering* Vol. 2014, pp 1-9, 2014.
78. Md Shafiu Islam, Mohammed Mizanur Rahman, Md Abdul Gafur, Ahmad I. Mustafa, and Mubarak A. Khan. "Preparation and characterization of cellulose-gelatin nanocomposite isolated from jute for biomedical application." *Materials Science: An Indian Journal*, Vol 11 (3), pp 105-112, 2014.
79. MA Rahman Bhuiyan, Mohammed Mizanur Rahman, Abu Shaid, and M. A. Khan. "Application of gamma irradiated textile wastewater for the pretreatment of cotton fabric." *Environment and Ecology Research* Vol 2(3) (2014): 149-152.
80. Zaman, A., Rashid, T. U., Khan, M. A., Mohammed Mizanur Rahman (2015) Preparation and Characterization of Multiwall Carbon Nanotube (MWCNT) Reinforced Chitosan Nanocomposites: Effect of Gamma Radiation, *BioNanoScience* 5 (1), 31-38.
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