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Pulp and Paper Research Division, BCSIR Laboratories, Dhaka
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Education

Ph.D. (2019) Wood Pulp and Paper Engineering
Department of Wood Pulp and Paper, University of Pardubice, Czech Republic

Master of Science (2004, held in 2006)
Organic Chemistry, University of Rajshahi, Bangladesh

Bachelor of Science (2003, held in 2004)
Chemistry, University of Rajshahi, Bangladesh

Professional Information

- **Principal Scientific Officer:** Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhanmondi, Dhaka. October 2024 – Present
- **Senior Scientific Officer:** Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhanmondi, Dhaka. January 2013 – October 2024
- **Scientific Officer:** Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhanmondi, Dhaka. November 2006 – January 2013

Technical Skills and Competences

- Lignocellulosic biorefinery
- Nonwood pulping
- Biomass fractionation
- Lignin valorization
- Hemicellulose recovery
- Nanocellulose
- Sustainable paper and packaging
- Bio-based functional materials
- Circular bioeconomy
- Agricultural residue utilization

Publications

1. Hemicellulose as an additive in papermaking, **Rahman, M. Mostafizur**, Taslima Ferdous, Yangcan Jin, and M. Sarwar Jahan, *Nordic Pulp & Paper Research Journal* 40, no. 2 (**2025**): 357-364.
2. Recovery of cellulose nanocrystal from mixed office wastepaper and the development of bio-based coating matrixes with enhanced water, gas, oil, and grease resistances for packaging, Baral, Anik, Niloy Roy Kerjee, Nazia Afrin Jashi, Md Ismail Hossen Emon, Munmun Basak, **Md Mostafizur Rahman**, AFM Mustafizur Rahman et al., *RSC advances* 15, no. 17 (**2025**): 13188-13198.
3. Sustainable Utilization of Cyanodon dactylon Biomass for Cellulose Derivatives and Biofilm Production, Saeed, Md Abu, Shahidul Islam, Md Abdul Jalil, Shahin Hossain, Sanjay Belowar, Farjana Akter, Md Mahbubur Rahman Bhuiyan, and **Md Mostafizur Rahman**, *Waste and Biomass Valorization* (**2025**): 1-16.
4. Molecular and spectroscopic characterization of technical lignin from Trema orientalis and Trewia nudiflora obtained from formic acid biorefinery, Likhon, Md Nur Alam, Sharmin Islam, **M. Mostafizur Rahman**, Bo Jiang, Yangcan Jin, and M. Sarwar Jahan, *Cellulose Chemistry and Technology* 59, no. 5-6 (**2025**): 579-587.
5. Chemometric Model for Rapid Determination of Syringyl/Guaiacyl Ratio in Non-Wood by FT-NIR Spectroscopic Data, Uddin, M. Nashir, Taslima Ferdous, Yangcan Jin, **M. Mostafizur Rahman**, and M. Sarwar Jahan, *Analytical Science Advances* 6, no. 1 (**2025**): e70005.
6. A strong, tough, fatigue-resistant, and biocompatible biogel via lignin-induced multiscale energy dissipation mechanisms, Gu, Yihui, Chuchu Chen, Yufeng Yuan, Xuyang Guo, Chaofeng Zhang, Wenjuan Wu, **M. Mostafizur Rahman**, Bo Jiang, and Yongcan Jin, *Advanced Composites and Hybrid Materials* 8, no. 5 (**2025**): 372.
7. Determination of aliphatic and phenolic hydroxyl groups in lignin by chemometric analysis of FTIR spectroscopic data, Uddin, Mohammad Nashir, M. Nur Alam Likhon, **M. Mostafizur Rahman**, Yangcan Jin, Bo Jiang, M. Tushar Uddin, And M. Sarwar Jahan, *TAPPI JOURNAL* 24, no. 10 (**2025**).
8. Interfacial strategies and bioengineering of lignin-derived strong and tough gels, Gu, Yihui, Yufeng Yuan, Chaofeng Zhang, Wenjuan Wu, **M. Mostafizur Rahman**, Bo Jiang, and Yongcan Jin, *Renewable and Sustainable Energy Reviews* 226 (2025): 116415.
9. Wood characteristics of 16 years old teak (Tectona grandis) cultivated in Kaptai, Bangladesh, Uddin, M. Tushar, **M. Mostafizur Rahman**, MN A. Likhon, AS M. Jahir Uddin Akon, Munira Sultana, and M. Sarwar Jahan, *Wood Material Science & E ngineering* (**2025**): 1-9.
10. Collaboration of lignin solvent self-assembly and Ca2+ crosslinking triggered a highly compressible and ion-conductive hydrogel, Shi, Dongsheng, Yihui Gu, Wenjuan Wu, Chaofeng Zhang, Wangxia Wang, Yongcan Jin, Yiqin Yang, **Md Mostafizur Rahman**, and Bo Jiang. *Chemical Engineering Journal* (**2025**): 167539.

11. Conversion of paper-grade pulp from rice straw into dissolving pulp, Islam, Sharmin, **M. Mostafizur Rahman**, M. Nakib Hossen, M. Likhon, Nur Alam, Hasan Jameel, and M. Sarwar Jahan, *TAPPI Journal* 24, no. 6 (**2025**).
12. Method for Rapid Determination of Hexeneuronic Acid in Non-Wood Pulp by Multivariate Analysis of FT-NIR Spectroscopic Data, Uddin, Mohammad Nashir, Taslima Ferdous, Md Nur Alam Likhon, Riyadh Hossen Bhuiyan, Yonghao Ni, **Md Mostafizur Rahman**, and M. Sarwar Jahan, *Journal of Applied Polymer Science* 142, no. 44 (**2025**): e57698.
13. Md Nakib Hossen, **M Mostafizur Rahman**, Taslima Ferdous, Jannatun Nayeem, M Sarwar Jahan, 2024. Biobased nanocomposite coating of paper for packaging. *Nordic Pulp & Paper Research Journal*, *39*(4), pp.655-665.
14. Shouvroneel Roy, **M. Mostafizur Rahman**, Taslima Ferdous, M. Nur Alam Likhon, M. Sarwar Jahan., 2024. Preparation of chitosan derivative and its application in papermaking. *International Journal of Biological Macromolecules*, *256*, p.128371. https://doi.org/10.1016/j.ijbiomac.2023.128371
15. Mohammad Azarmi, Alex Berg, Sonja Geier, Elisabeth Gerhardt, Martin Greimel, Daniela Groiß-Fuertner, Felipe Guzman, Henrik Heräjärvi, Anu Laakkonen, Joona Lampela, **Mostafizur Rahman**, Niels Müller, Sabine Ober, Tahiana Ramananantoandro, Andry Clarel Raobelina, Martin Riegler, M. Jahan Sarwar, Pascal Wacker, 2024. SCIENTIFIC BACKGROUND PAPER.
16. Mohammad Nashir Uddin, Md. Nur Alam Likhon, **Md. Mostafizur Rahman**, and Md. Sarwar Jahan, 2024. Effect of fibre-quality parameters on pulp properties by using multiple linear regression and artificial neural network. *International Wood Products Journal*, *15*(2-4), pp.91-99. https://doi.org/10.1177/20426445241284492
17. Sharmin Islam, **M. Mostafizur Rahman** and M. Sarwar Jahan, 2024. Kraft pulping of Eucalyptus camaldulensis planted in homestead forestry in Bangladesh. *Journal of the Indian Academy of Wood Science*, pp.1-8. https://doi.org/10.1007/s13196-015-0153-3
18. Lubna Jahan Sarkar Hany, **M Mostafizur Rahman**, Razia Sultana Popy, Taslima Ferdous, Ashis K. Sarker and M Sarwar Jahan , 2024. High strength hydrogel using phenolated lignin. *European Journal of Wood and Wood Products*, pp.1-11. https://doi.org/10.1007/s00107-024-02094-y
19. M. Nakib Hossen, **M. Mostafizur Rahman**, Sharmin Islam and M. Sarwar Jahan, 2024. "Alkaline treatment and fractionation of OCC for strength improvement" *Nordic Pulp & Paper Research Journal*.
20. **M. Mostafizur Rahman**, Md. Minhajul Islam, Taslima Ferdous, M. Nakib Hossen and M. Sarwar Jahan. "Fractionation of old corrugated containers for manufacture of test liner and fluting paper." *Cellulose Chemistry & Technology* 58 (2024).
21. Sharmin Islam, Razia Sultana Popy, M. Nur Alam Likhon, **M. Mostafizur Rahman**, M. Sarwar Jahan, 2023. Organic acid fractionation of hardwoods planted in social forestry. *Nordic Pulp & Paper Research Journal*. https://doi.org/10.1515/npprj-2023-0065
22. **M. Mostafizur Rahman**, Esrat Jahan, M. Sarwar Jahan, Muhammad Abul Kashem Liton, 2023. Phenolation of potassium hydroxide lignin and its effect on copolymerization with acrylic acid. *Biomass Conversion and Biorefinery*, pp.1-9. https://doi.org/10.1007/s13399-023-04901-7

23. **M. Mostafizur Rahman,** Nur-Al-Sarah Rafsan, Jannatun Nayeem, Mohammad Moniruzzaman, M. Sarwar Jahan, 2023. Nitric acid-potassium hydroxide fractionation of rice straw: an integrated biorefinery initiative. *Nordic Pulp & Paper Research Journal*, *38*(2), pp.243-252. https://doi.org/10.1515/npprj-2022-0073

24. **M. Mostafizur Rahman**, Amiya Roy, Jannatun Nayeem, Razia Sultana Popy, Taslima Ferdous, M. Sarwar Jahan, 2023. Tissue paper from corn stalk pulp in biorefinery concept. *Biomass Conversion and Biorefinery*, pp.1-8. https://doi.org/10.1007/s13399-023-04470-9

25. Md. Jahural Islam, **M. Mostafizur Rahman**, Taslima Ferdous, Jannatun Nayeem, Razia Sultana Popy, Chao Tian, M. Sarwar Jahan., 2023. Co-pulping of Trewia nudiflora and Trema orientalis. *TAPPI Journal*, *22*(6), pp.411-421. https://doi.org/10.32964/tj22.6.411

26. M. Mahbubur Rahman, Md. Nurul Anwar Khan, Md. Kamrul Hasan, Mahbub Alam, **M. Mostafizur Rahman**, M. Shahriar Bashar, Md. Aftab Ali Shaikh and M. Sarwar Jahan, 2023 Effects of ball milling and enzyme treatment on cellulose acetylation. *Cellulose Chemistry and Technology*, 57 (7-8), pp717-725

27. Md. N. A. Likhon, **Md. Mostafizur Rahman**, Jannatun Nayeem, Razia Sultana Popy, Abul K. M. Golam Sarwar and Md. Sarwar Jahan, 2023 Pulping and papermaking properties of Zara Plant. *Cellulose chemistry and technology*, 57 (5-6), pp557-564

28. Atiar M. Rahman, **M. Mostafizur Rahman,** Kazuhiro Nemoto, and AKM Golam Sarwar, 2023. Proximate composition and thermal properties of hemp and flax fibres. *Bangladesh Journal of Scientific and Industrial Research*, *58*(1), pp.65-70. https://doi.org/10.3329/bjsir.v58i1.64236

29. Jannatun Nayeem, **M. Mostafizur Rahman**, M. Sarwar Jahan, Razia Sultana Popy, 2023. Pulping and papermaking of rice straw. In *Pulping and Papermaking of Nonwood Plant Fibers* (pp. 245-265). Academic Press. https://doi.org/10.1016/b978-0-323-91625-7.00001-1

30. **M. Mostafizur Rahman**, M. Sarwar Jahan, Yonghao Ni., 2023. Pulping and papermaking of jute. In *Pulping and Papermaking of Nonwood Plant Fibers* (pp. 121-141). Academic Press. https://doi.org/10.1016/b978-0-323-91625-7.00005-9

31. Shahin Hossain, M. Abdul Jalil, Tarikul Islam and **M. Mostafizur Rahman**., 2022. A low-density cellulose rich new natural fiber extracted from the bark of jack tree branches and its characterizations. *Heliyon*, *8*(11). https://doi.org/10.2139/ssrn.4186469

32. Jannatun Nayeem, Chao Tian, **M. Mostafizur Rahman**, Razia Sultana Popy, Taslima Ferdous, M. Sarwar Jahan, 2022. Characteristics of potassium hydroxide lignin from corn stalk and dhaincha. *Nordic Pulp & Paper Research Journal*, *37*(4), pp.553-565. https://doi.org/10.1515/npprj-2022-0053

33. M.Mahbubur Rahman, Mahbub Alam, **M.Mostafizur Rahman**, Md Abu Bin Hasan Susan. Md. Aftab Ali Shaikh, Jannatun Nayeem, M.Sarwar Jahan, 2022. A novel approach in increasing carboxymethylation reaction of cellulose. *Carbohydrate Polymer Technologies and Applications*, *4*, p.100236. https://doi.org/10.1016/j.carpta.2022.100236

34. Jannatun Nayeem, Chao Tian, **M. Mostafizur Rahman**, Razia Sultana Popy, Taslima Ferdous, M. Sarwar Jahan, 2022. Characteristics of potassium hydroxide lignin from

corn stalk and dhaincha. *Nordic Pulp & Paper Research Journal*. https://doi.org/10.1515/npprj-2022-0053

35. **M. Mostafizur Rahman**, Razia Sultana Popy, Jannatun Nayeem, Kazi M. Yasin Arafat, M. Sarwar Jahan, 2022. Dissolving pulp and furfural production from jute stick. *Nordic Pulp & Paper Research Journal*. https://doi.org/10.1515/npprj-2022-0046
36. **M. Mostafizur Rahman**, Esrat Jahan, Jannatun Nayeem, Kazi M. Yasin Arafat, A. K. M. Golam Sarwar, M. Nashir Uddin, M. Sarwar Jahan, 2022. Evaluation of Erythrina fusca Lour. as a pulping raw material. *International Wood Products Journal*, *13*(2), pp.107-114. https://doi.org/10.1080/20426445.2022.2039983
37. Maisha Farzana, **M. Mostafizur Rahman**, Taslima Ferdous, M. Sarwar Jahan, 2021. Review on Trema orientalis as a potential bioresource in tropical countries. *Trees*, pp.1-9. https://doi.org/10.1007/s00468-021-02245-1
38. **M. Mostafizur Rahman** and Frantisek Potucek, 2021. Displacement washing of softwood pulp cooked to various levels of residual lignin content. *TAPPI Journal*, *20*(9), pp.553-563. https://doi.org/10.32964/tj20.9.553
39. Akash M. Sarkar, Maisha Farzana, **M. Mostafizur Rahman**, Yangcan Jin and M. Sarwar Jahan, 2021. Future cellulose based industries in Bangladesh—A mini review. *Cellulose chemistry and technology, 55*, pp.443-459. https://doi.org/10.35812/cellulosechemtechnol.2021.55.41
40. **M. Mostafizur Rahman**, Kazi M. Yasin Arafat, Yangcan Jin, Hui Chen, M. Sarwar Jahan, 2021. Structural characterization of potassium hydroxide liquor lignin and its application in biorefinery. *Biomass Conversion and Biorefinery*, pp.1-11. https://doi.org/10.1007/s13399-020-01202-1
41. Akash Mamon Sarkar, Jannatun Nayeem, **M. Mostafizur Rahman** and M. Sarwar Jahan, 2021. Dissolving pulp from non-wood plants by prehydrolysis potassium hydroxide process. *Cellulose chemistry and technology*, *55*(1-2), pp.117-124. https://doi.org/10.35812/cellulosechemtechnol.2021.55.12
42. M Sarwar Jahan, **M. Mostafizur Rahman** and Yonghao Ni, 2021. Alternative initiatives for non-wood chemical pulping and integration with the biorefinery concept: A review. *Biofuels, Bioproducts and Biorefining*, *15*(1), pp.100-118. https://doi.org/10.1002/bbb.2143
43. Akash Mamon Sarkar, M Sarwar Jahan, Jannatun Nayeem, Kazi M Yasin Arafat, **M Mostafizur Rahman**, Razia Sultana Popy, AHM Shofiul Islam Molla Jamal and M. Abdul Quaiyyum, 2021. Chemical and morphological characterization and pulping of *Casuarina equisetifolia*. *Nordic Pulp & Paper Research Journal*. https://doi.org/10.1515/npprj-2021-0032
44. Razia Sultana Popy, Jannatun Nayeem, Kazi M. Yasin Arafat, **M. Mostafizur Rahman** and M. Sarwar Jahan, 2020. Mild potassium hydroxide pulping of straw. *Current Research in Green and Sustainable Chemistry*, *3*, p.100015. https://doi.org/10.1016/j.crgsc.2020.100015
45. František Potucek, **M. Mostafizur Rahman** and Jozef Miklík, 2020. Displacement Washing of Kraft Pulp with Various Consistency. *Cellulose Chemistry and Technology, volume 54, issue: 9-10.* https://doi.org/10.35812/cellulosechemtechnol.2020.54.91

46. František Potucek and **M. Mostafizur Rahman**, 2019. Displacement Washing of Kraft Pulp at Various Wash Water Temperature. *Acta Facultatis Xylologiae Zvolen, volume 61, issue: 2*.

47. **M. Mostafizur Rahman**, 2019. Displacement washing of spruce pulp with different delignification degree. Thesis

48. František Potucek and **M. Mostafizur Rahman**, 2018. Bed efficiency for displacement washing of kraft softwood and hardwood pulps. *Cellulose Chemistry and Technology*, *52*(5-6), pp.393-401.

49. **M. Mostafizur Rahman** and František Potucek, 2018. Influence of Displacement Washing upon Lignin and Hexenuronic Acid Content of Spruce Kraft Pulp. *PRZEGLĄD PAPIERNICZY 74 WRZESIEŃ*, DOI: 10.15199/54.2018.91, PP. 571-576.

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51. M. Sarwar Jahan, Fahmida Haris, **M. Mostafizur Rahman**, Purabi Rani Samaddar and Shrikanta Sutradhar, 2016. Potassium hydroxide pulping of rice straw in biorefinery initiatives. *Bioresource technology*, *219*, pp.445-450. https://doi.org/10.1016/j.biortech.2016.08.008

52. **M Mostafizur Rahman**, S Siddiqua, F Akter, M Sarwar Jahan and MA Quaiyyum, 2016. Variation of morphological and chemical properties of three varieties of jute stick. *Bangladesh Journal of Scientific and Industrial Research*, *51*(4), pp.307-312. https://doi.org/10.3329/bjsir.v51i4.30451

53. M. Sarwar Jahan, Rajesh Chandra Deb, **M. Mostafizur Rahaman** and M.A. Quaiyyum, 2016. Dissolving pulp from white press cuttings. *TAPPI Journal*, *15*(4), pp.277-282. https://doi.org/10.32964/tj15.4.277

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concept. *Nordic Pulp & Paper Research Journal*, *30*(4), pp.562-567. https://doi.org/10.3183/npprj-2015-30-04-p562-567

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63. M. Sarwar Jahan, Sumon Gosh, **M. Mostafizur Rahman** and Yonghao Ni, 2013. Nonwood pulping: use of jute cuttings and caddis in Bangladesh. *TAPPI Journal*, *12*(9), pp.41-46. https://doi.org/10.32964/tj12.9.41
64. Md. Sarwar Jahan, Md. Milton Hosen and **M. Mostafizur Rahman**, 2013. Comparative study on the prebleaching of bamboo and hardwood pulps produced in Kharnaphuli Paper Mills. *Turkish Journal of Agriculture and Forestry*, *37*(6), pp.812-817. https://doi.org/10.3906/tar-1211-64
65. M. Sarwar Jahan, Naznin Sultana, **M. Mostafizur Rahman** and A. Quaiyyum, 2013. An integrated biorefinery initiative in producing dissolving pulp from agricultural wastes. *Biomass Conversion and Biorefinery*, *3*(3), pp.179-185. https://doi.org/10.1007/s13399-012-0067-x
66. M. Sarwar Jahan, Moshikur Rahman and **M. Mostafizur Rahman**, 2012. Characterization and evaluation of okra fibre (abelmoschus esculentus) as a pulping raw material. *J-FOR*, *2*(5), pp.12-17. https://doi.org/10.3329/bjsir.v50i4.25834
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71. M. Sarwar Jahan, **Mostafizur Rahman**, M. Nuruddin, S.A. Haque and A. Chowdhury, 2011. Effect of preextraction on the pulping and papermaking properties of short rotation Trema orientalis. *Indian Journal of Ecology*, *38*(Special Issue), pp.35-40.

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Awards

1. Best Poster Award in the IUFRO Symposium on "Short Rotation Forestry: Synergies for Wood Production and Environmental Amelioration" February 10-12, 2011, Ludhiana,Punjab, India.
2. Received 1st price in the 60th student conference on 6th May 2019, Student Scientific Activity (ŠVOČ), Technical University in Zvolen, Slovakia.
3. Received 2nd price in the 59th student conference on 10th May 2018, Student Scientific Activity (ŠVOČ), Technical University in Zvolen, Slovakia.

Thesis Supervision

Supervised 20 M.Sc. students from various universities in Bangladesh to successful completion of their thesis research.