

## Total published paper: 44

### Publication List

1. Yasmin, S., Kabir, M.H., Shaikh, M.A.A. and Jeon\*, S., 2023. Electrochemically Reduced Graphene Oxide Supported Palladium-Cobalt Alloy Nanoparticles as Highly Efficient Electrocatalyst for Oxygen Reduction Reaction, *ECS Journal of Solid State Science and Technology*, 12, 111004. <http://dx.doi.org/10.1149/2162-8777/ad0d04>
2. Roy, N., Yasmin, S., Mohiuddin, A.K., Shaikh M.A.A. and Jeon\*, S., 2023. Pyridinic and Pyrrolic-N induced carbon nanotubes support bimetallic oxide nanoparticles as high-performance electrocatalysts for oxygen reduction reaction, *Applied Surface Science Advances* 18, 100517. <http://dx.doi.org/10.1016/j.apsadv.2023.100517>
3. Hossain, M.S., Kabir\* M.H., Shaikh\*, M.A.A., Haque, M.A. and Yasmin\*, S., 2024. Ultrafast and simultaneous removal of four tetracyclines from aqueous solutions using waste material-derived graphene oxide-supported cobalt–iron magnetic nanocomposites†*RSC Adv.*, 14, 1431–1444, <http://dx.doi.org/10.1039/d3ra07597d>
4. Pabel, M.Y., Yasmin\*, S., Shaikh, M.A.A., Kabir\*, M.H., 2024. Electronic waste derived reduced graphene oxide supported silver nanoparticles for the electrochemical sensing of trace level arsenite in aqueous medium. *Sensors and Actuators A: Physical* 366, 115028, <https://doi.org/10.1016/j.sna.2024.115028>
5. Mojumder, F., Yasmin, S., Shaikh, M.A.A., Chowdhury, P. and Kabir\*, M.H., 2024. Synthesis of Reusable Graphene Oxide Based Nickel-Iron Superparamagnetic nanoadsorbent from Electronic Waste for the Removal of Doxycycline in aqueous media, *Journal of Hazardous Materials Advances*, <https://doi.org/10.1016/j.hazadv.2024.100429>
6. Hossain, M.S., Yasmin\*, S., Kabir\*, M.H., 2024. Cost-effective synthesis of magnetic graphene oxide nanocomposite from waste battery for the removal of arsenic from aqueous solutions: Adsorption mechanism with DFT calculation, *Journal of Saudi Chemical Society*, 28,101873, <http://dx.doi.org/10.1016/j.jscs.2024.101873>
7. Bhuiya, A., Yasmin\*, S., Shaikh, M.A.A., Mustafa, M.G., Kabir\*, M.H., 2024. Method development of multi pesticide residue analysis in country beans collected from Dhaka, Bangladesh, and their dietary risk assessment, *Food Chemistry*, 445, 138741, <https://doi.org/10.1016/j.foodchem.2024.138741>
8. Yasmin\*, S., Azam, M.G., Hossain, M.S., Akhtar, U.S., Kabir\*, M.H., 2024. Efficient removal of ciprofloxacin from aqueous solution using Zn–C battery derived graphene oxide enhanced by hydrogen bonding, electrostatic and  $\pi$ - $\pi$  interaction, *Heliyon*, 10,12. <https://doi.org/10.1016/j.heliyon.2024.e33317>.

9. Hossain, M.S., Kabir\*, M.H., Shaikh, M.A.A., Pabel, M.Y., Yasmin, S., 2024. Development of a high-capacitance flexible supercapacitor with enhanced cycling stability based on nanotubular polyaniline-modified titanium sheet, *Materials Chemistry and Physics*, 322,129586, <https://doi.org/10.1016/j.matchemphys.2024.129586>.
10. Bhuiya, A., Yasmin\*, S., Mustafa, M.G., Shaikh, M.A.A., Saima, J., Moniruzzaman, M., Kabir\*, M.H., 2024. Spatiotemporal distribution, ecological risk assessment, and human health implications of currently used pesticide (CUP) residues in the surface water of Feni River, Bangladesh, *Science of The Total Environment*, 944,173857. <https://doi.org/10.1016/j.scitotenv.2024.173857>.
11. Kabir\*, M.H., Yasmin\*, S., Islam, S., Shaikh, M.A.A., Moniruzzaman, M., 2024. Residue determination of thiamethoxam and its metabolite clothianidin in okra using the modified QuEChERS method with d-SPE clean-up coupled with LC-MS/MS, *Food Chemistry Advances*, 5,100754, <https://doi.org/10.1016/j.focha.2024.100754>.
12. Cai, A., Chen, Y., Zhang, X., Zou, J., Yang, J., Mondal\*, A.K., Wu, Y. and Tang, Z., 2024. “Facile strategy of supramolecular adhesives based on water-soluble polymers and tannic acid.” *Polymer*, 2127343. <https://doi.org/10.1016/j.polymer.2024.127343>.
13. Chen, Y., Zou, J., Yu, M., Mondal\*, A.K., Li, S. and Tang, Z., 2024. “Physically crosslinked tannic acid-based adhesive for bonding wood.” *Cellulose*, 1-10. <http://dx.doi.org/10.1007/s10570-024-05971-0>
14. Tang, Z., Yang, J., Li, S., Wu, Z. and Mondal\*, A.K., 2024. “Anti-swellable, stretchable, self-healable, shape-memory and supramolecular conductive TA-based hydrogels for amphibious motion sensors.” *European Polymer Journal* 211, 113034. <https://doi.org/10.1016/j.eurpolymj.2024.113034>
15. Tang, Z., Lin, X., Yu, M., Yang, J., Li, S., Mondal\*, A.K., and Wu. H., 2024. “A review of cellulose-based catechol-containing functional materials for advanced applications.” *International Journal of Biological Macromolecules*, 131243. <https://doi.org/10.1016/j.ijbiomac.2024.131243>
16. Cai, A., Zhang, X., Cai, P., Wu, Z., Mondal\*, A.K. and Tang, Z., 2024. “Preparation of tannic acid-reinforced cellulose nanofiber composites for all-water-based high-performance wood adhesives.” *International Journal of Biological Macromolecules*, 130770.
17. Tang, Z., Lin, X., Yu, M., Mondal\*, A.K. and Wu, H., 2023. “Recent advances in TEMPO-oxidized cellulose nanofibers: Oxidation mechanism, characterization, properties and applications.” *International Journal of Biological Macromolecules*, 129081. <https://doi.org/10.1016/j.ijbiomac.2024.130770>
18. Tasnim, K.T., Debnath, A., Uddin, M.T., Alam, M.A., Razzaq, M.A., Zaman, S.Z., Shaikh, M.A.A. and Mondal\*, A.K., 2024. “Comparative Evaluation of Tannin from Banana

- Bunch and Stem Syrup for Leather Processing.” *Heliyon* 10(11), e31787. <https://doi.org/10.1016/j.heliyon.2024.e31787>
19. Alam, M.A., Uddin, M.T., Tasnim, K.T., Sarker, S.S., Razzaq, M.A., Kabir, M.A., Sujan, S.M.A. and Mondal\*, A.K., 2024. “Comparative evaluation of physicochemical and antimicrobial properties of rubber seed oil from different regions of Bangladesh.” *Heliyon* 10(4), e25544. <https://doi.org/10.1016/j.heliyon.2024.e25544>.
  20. Tang, Z., Lin, X., Yu, M., Mondal\*, A.K., Huang, L., Chen, L., and Wu, H., 2023. “Antiswellable, Conductive, and Recyclable Coacervate Polyacrylamide/Tannic Acid Composite Hydrogel for Underwater Wearable Sensors.” *ACS Applied Polymer Materials* 6(1), 806-816. <https://doi.org/10.1021/acsapm.3c02433>
  21. Tang, Z., Lin, X., Chen, Y., Pan, Y., Yang, Y., Mondal\*, A.K., Yu, M., and Wu, H., 2023. “Preparation of mussel-inspired polydopamine-functionalized TEMPO-oxidized cellulose nanofiber-based composite aerogel as reusable adsorbent for water treatment.” *Industrial Crops and Products* 206, 117735. <https://doi.org/10.1016/j.indcrop.2023.117735>
  22. Tang, Z., Lin, X., Yu, M., Mondal\*, A.K., and Wu, H., 2024. “Development of Biocompatible Mussel-Inspired Cellulose-Based Underwater Adhesives.” *ACS omega* 9(3), 3877-3884. <https://doi.org/10.1021/acsomega.3c07972>
  23. Tang, Z., Yang, Y., Pan, Y., Yu, M., Lin, X. and Mondal\*, A.K., 2024. “Biocompatible, Injectable, and Self-Healing Poly (N-vinylpyrrolidone)/Carboxymethyl Cellulose Hydrogel for Drug Release.” *ACS omega*. <https://doi.org/10.1021/acsomega.3c09156>
  24. Xu, D., Cheng, Y., Lin, W., Han, S., Wu, S., Mondal, A.K., Li, A., and Huang, F., 2024. “Di-aldehyde tunicate cellulose nanocrystal (D-tCNC) aerogels for drug delivery: Effect of D-tCNC composition on aerogel structure and release properties.” *International Journal of Biological Macromolecules* 256 (2024): 128345. <https://doi.org/10.1016/j.ijbiomac.2023.128345>
  25. Lin, W., Han, H., Yan, X., Xie, J., He, H., Han, S., Ning, D., Mondal, A.K., Wu, S. and Huang, F., 2024. “Development of lignin hydrogel reinforced polypyrrole rich electrode material for supercapacitor and sensing applications.” *International Journal of Biological Macromolecules*, 132962. <https://doi.org/10.1016/j.ijbiomac.2024.132962>.
  26. Zou, Q., Han, S., Xie, J., He, H., Lin, W., Mondal, A.K. and Huang, F., 2023. “Study on the quality improvement of bio-oil prepared by catalytic pyrolysis of kraft lignin: the role of micropore/mesopore beta zeolites.” *Biomass Conversion and Biorefinery*, 1-14. <http://dx.doi.org/10.1007/s13399-023-05218-1>
  27. Debnath, A., Alam, M.A., Mondal, A.K., Uddin, M.T., Shaikh, M.A.A and Sujan, S.M., 2023. “Development of Flexible Composite Sheet with Chrome Shavings Using Polyvinyl Alcohol as a Cross-Linker.” *International Journal of Polymer Science* <https://doi.org/10.1155/2023/6694850>.
  28. Hasan, A.B., Reza, A.S., Siddique, M.A.B., Akbor, M.A., Nahar, A., Hasan, M., Uddin, M.R., Zaman, M.N. and Islam, I., 2024. Origin, spatial distribution, sediment contamination, ecological and health risk evaluation of trace metals in sediments of ship

- breaking area of Bangladesh. *Journal of Hazardous Materials*, 465, p.133214. <https://doi.org/10.1016/j.jhazmat.2023.133214>
29. Rahman, M.M., Yeasmin, M.S., Uddin, M.J., Hasan, M., Shaikh, M.A.A., Rahman, M.S. and Maniruzzaman, M., 2023. Simultaneous abatement of Ni<sup>2+</sup> and Cu<sup>2+</sup> effectually from industrial wastewater by a low cost natural clay-chitosan nanocomposite filter: synthesis, characterization and fixed bed column adsorption study. *Environmental Nanotechnology, Monitoring & Management*, 20, p.100797. <https://doi.org/10.1016/j.enmm.2023.100797>.
30. Rahman, M.M., Maniruzzaman, M., Yeasmin, M.S., Gafur, M.A., Shaikh, M.A.A., Alam, M.A., Uddin, M.J., Hasan, M., Al Bashera, M., Chowdhury, T.A. and Maitra, B., 2023. Adsorptive abatement of Pb<sup>2+</sup> and crystal violet using chitosan-modified coal nanocomposites: A down flow column study. *Groundwater for Sustainable Development*, 23, p.101028. <https://doi.org/10.1016/j.gsd.2023.101028>.
31. Hasan, M., Hossain, M.M., Abrarin, S., Kormoker, T., Billah, M.M., Bhuiyan, M.K.A., Akbor, M.A., Salam, S.M., Khan, R., Naher, K. and Salam, M.A., 2023. Heavy metals in popularly sold branded cigarettes in Bangladesh and associated health hazards from inhalation exposure. *Environmental Science and Pollution Research*, 30(45), pp.100828-100844. <https://doi.org/10.1007/s11356-023-29491-9>
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33. Rahman, M.A., Haque, M.A., Shaikh, M.A.A., Roy, C.K., Reaz, A.H., Shawon, M.T.A., Baksi, P.K., et al., 2024. "Titanium Sulfide Thin Film Coated Titanium Foil for High-Performance Symmetric Supercapacitor." *Journal of Energy Storage* 99, 113205. <https://doi.org/10.1016/j.est.2024.113205>
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37. Urmi, M. A., Akbor, M. A., Sarker, S., Nahar, A., Shaikh, M. A. A., Siddique, M. A. B., & Rahman, M. M. (2023). A pioneering study on endocrine disruptors (phthalates esters) in urban rivers of Bangladesh: An appraisal of possible risk assessment to ecology and human health. *Journal of Hazardous Materials Advances*, 12, 100369. <https://doi.org/10.1016/j.hazadv.2023.100369>
38. Hasan, I., Reza, S., Siddique, A. B., Akbor, A., Hasan, M., Nahar, A., & Islam, I., 2023. Assessment of groundwater vulnerability for seawater intrusion using DRASTIC model in coastal area at Patuakhali District, Bangladesh. *Environmental Science and Pollution Research*, 30(50), 109021-109040. <http://dx.doi.org/10.1007/s11356-023-29988-3>.
39. Nahar, A., Dhar, S. A., Pinky, N. S., Ahmed, A. N., Miah, M. Y., Alam, M. A. & Gafur, M. A. (2024). Extrinsic properties of unsaturated polyester resin-based hybrid composite reinforced with waste-fibers versus waste-fibers and talc: A comparative study. *Bangladesh Journal of Scientific and Industrial Research*, 59(1), 17-26.
40. Rayhan, M. R. I., Akbor, M. A., Nahar, A., Chowdhury, N. J., Rahman, M. M., & Saadat, A. H. M. (2024). Exposure of polychlorinated biphenyls via indoor dust particles and their health risks in Dhaka City, Bangladesh. *Journal of Hazardous Materials Advances*, 14, 100421. <https://doi.org/10.1016/j.hazadv.2024.100421>
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43. Uddin, M. R., Akhter, F., Abedin, M. J., Shaikh, M. A. A., Al Mansur, M. A., Rahman, M. S., Akbor, M. A. & Khandaker, M. U. 2024. Comprehensive analysis of phytochemical profiling, cytotoxic and antioxidant potentials, and identification of bioactive constituents in methanolic extracts of *Sonneratia apetala* fruit. *Heliyon*, 10(13). <https://doi.org/10.1016/j.heliyon.2024.e33507>.
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