

### **List of Publications (Dr. Mehwish Akram)**

- Spectrochemical analysis of Brassica juncea seeds extract and in vivo assessment as phytomedicine having antidiabetic potential using rat model, Nutrire (2026), Volum 51, NO. 32 pg 1-20.
- Amalgamation of electro-catalysts using manganese, iron, and nickel oxide Embedded in g C3N4 and rGO for efficient water splitting, Journal of Separation Science and Technology, 2026 Taylor & Francis Group.  
<https://doi.org/10.1080/01496395.2026.2632053>, ISSN: 0149-6395 (Print) 1520-5754 (Online) Journal homepage: [www.tandfonline.com/journals/lsst20](http://www.tandfonline.com/journals/lsst20)
- Cutting-edge developments in revolutionizing Chemical Technologies using hybrid trends in Modern and Solar Powered Wastewater treatment plants for conservation of water resources, Journal of Physics and Chemistry of the Earth, 2026, 143 104355 (Impact Factor: 4.1).
- Latest advances in adsorptive decontamination of antibiotics remnants from wastewater by physiochemically fabricated Phyto waste materials, Journal of Dispersion Science and Technology, 2025, VOL. 46, NO. 14, 2226–2243
- Exploring chemically processed Symplocos racemosa sustainable material feasibility for sorptive amputation of Methylene Blue Dye from waste-water by green technology, Biomass Conversion and Biorefinery, 15, pages 13609–13626, (2025). (Impact Factor: 3.5).
- Biomaterial consisting of ZnO infused Musa paradisiaca peels for bioremediation of mutagenic Methylene blue dye from wastewater, Biomass Conversion and Biorefinery, 1-16 (2025) (Impact Factor: 3.5).
- Recent Era Developments in Green synthesis of Emerging Chromium oxide Nanoparticles and their applications in mitigating organic pollutants and drug delivery, Comments on Inorganic Chemistry, 1–32(2025). Published online: 25 Sep 2025 (Impact Factor: 2.7).
- Process modeling of Direct Red-28 dye Eradication by biopolymeric composite of Polyaniline with Mango leafy biowaste material, Journal of Dispersion Science and Technology, 46 (13), 1996-2009 (2025).Published on: 8th July, 2024 (Impact Factor:1.9).
- Effective application of citric acid treated Trapa natans and Citrullus lanatus Lignocellulosic macromolecules for adsorptive remediation of Acid Violet-7 Dye, International Journal of Biological Macromolecules,256, Article ID: 128285, 2024. (Impact Factor: 7.7 W).
- Isothermal and Kinetic investigation of sorption efficacy of Titania and Bentonite composite for Brilliant Green Dye removal for wastewater treatment, Journal of Dispersion Science and Technology, 1–11 (2024) (Impact Factor: 1.9 X). 11. Process modeling of Methylene Blue Dye adsorptive removal by physio-chemically treated Cicer arietinum Husk for effective wastewater treatment by green chemistry, Water, Air, & Soil Pollution, 235, 267 (2024) (Impact Factor: 3,8 W).

- Sequestration of Cyanide ions from Aqueous medium by physio-chemically fabricated Biochar of peels of banana and Grape fruit in ecofriendly way, *International Journal of Phytoremediation*, 26(10), 1701–1715 (2024) (Impact Factor: 3.7 W).
- Process modeling of Direct Red-28 dye Eradication by biopolymeric composite of Polyaniline with Mango leafy biowaste material, *Journal of Dispersion Science and Technology*, 1.14 (2024) (Impact Factor: 1.9).
- Mechanistic studies of phytoremediative sorptive eradication of Brilliant Green dye from water by oxalic acid treated *Acacia concinna* lignocellulosic waste, *International Journal of Phytoremediation*, 1-14 (2024) (Impact Factor:3.4 W ).
- Exploring feasibility of Citric Acid infused lignocellulosic waste derived from chestnut and water melon peels for phytofiltration of Eosin Yellow dye from water, *International Journal of Biological Macromolecules*, 276(Part 2), September, 133878 (2024).
- Latest Advances in Adsorptive decontamination of Antibiotics Remnants from wastewater by Physiochemically fabricated phytowaste materials, *Journal of Dispersion Science and Technology*, 1–18 (2024) (Impact Factor:1.9 X ).
- Exploring chemically processed *Symplocos racemosa* sustainable material feasibility for sorptive amputation of Methylene Blue Dye from waste-water by green technology, *Biomass Conversion and Biorefinery*, Reference No. ID: BCAB-D-24-02241 (Impact Factor: 3.5 X).
- Use of physio-chemically fabricated *Musa paradisiaca* mulch for Congo Red dye sorptive detoxification in eco-friendly way from water, *Journal of Dispersion Science and Technology* Reference No. ID: 243592956 (Impact Factor:1.9X ).
- Effective application of citric acid treated *Trapa natans* and *Citrullus lanatus* lignocellulosic macromolecules for adsorptive remediation of acid Violet-7 dye, *International Journal of Biological Macromolecules*, 256 (2024) 128285: ((Impact Factor: 8.2).
- Detoxification of Malachite Green and Victoria Blue-B dye by Photocatalyzer using Titania and Zinc Oxide as catalyst, *Journal of Water Process Engineering*, 53, July 2023, 103757 (page: 1-12) (Impact Factor: 7).
- Exploring Use of Titania-Bentonite composite for Sorptive Removal of Crystal violet dye in eco-friendly way, *Journal of Dispersion Science and Technology*, Page: 1-10 Published online: 16 May 2023. (Impact Factor: 2.2).
- Fabrication and testing of edible films incorporated with ZnO nanoparticles to enhance the shelf life of food, *Food Bioscience*, 56, December (2023), Article ID: 103111 (Impact Factor: 5.2).
- Process optimization of adsorptive phytoremediation of mutagenic Brilliant Green Dye for health risk management using chemically activated *Symplocos racemosa* agro-waste, *International Journal of Phytoremediation*, 1-13(2023) (Impact Factor: 3.7 )

- Adsorptive elimination of Rhodamine-B dye by synthetic clay based hetero metallic oxides nanocomposite KAB-Ben for rapid wastewater treatment, *Water, Air, & Soil Pollution*, Oct;234(10):654. 2023 (Impact Factor: 2.984).
- Use of Green Chemistry for Amputation of Chromium Ions from Wastewater by Alkali-Treated Composts of Fruit Peels in Economical Way, *Hindawi Journal of Chemistry* Volume 2022, Article ID 9924164, 14 pages.
- Eco-Friendly Detoxification of Congo Red Dye from Water by Citric Acid Activated Bioadsorbents Consisting of Watermelon and Water Chestnuts Peels Collected from Indigenous Resources, *Hindawi Adsorption Science & Technology* Volume 2022, Article ID 9056288, 20 pages .
- Post flood water quality discrepancies in Physiochemical Scenarios, Sialkot, Pakistan, *Int'l Journal of Advances in Agriculture and Environmental Engg.(IJAAEE)* ,3(1),2016 ISSN2349-1523EISSN2349-1531.
- Effect of temperature variations during cooking and storage on Ascorbic acid contents of vegetables: A comparative study, *Journal of Chemical Society of Pakistan*, 34(1), 2013, 1-4. (Impact Factor: 0.612).
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- Chemistry of Ice: Migration of Ions and Gases by Directional Freezing of Water, *Arabian Journal of Chemistry*, (2016) 9, S47-S53pg (Impact Factor: 5.2).
- Removal of Chromium from water using Peas waste , Green chemistry approach, *Green Chemistry Letters and Reviews* , 3(3), 2010, 239 – 243. (Impact Factor: 1.216).
- Synthesis of Tallow Based Esterquat, *journal of Scientific Research*, 40(1), 2010, 31-36.