

Synthesis of polyaniline nanoparticles and their application in the adsorption of Violet dye by ultrasonicated adsorption process based on

Ultrasonics Sonochemistry

34, 600-608

DOI: 10.1016/j.ultsonch.2016.06.022

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Preparation and characterization of hexagonal mesoporous silica/polyacrylamide nanocomposite capsule (PAM-HMS) for dye removal from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2017, 238, 499-507. | 4.9 | 24 |
| 3 | Optimization by response surface methodology for vanadium (V) removal from aqueous solutions using PdO-MWCNTs nanocomposites. <i>Journal of Molecular Liquids</i> , 2017, 234, 117-123. | 4.9 | 23 |
| 4 | Green synthesis of Ag-Cr-AC nanocomposites by <i>Azadirachta indica</i> and its application for the simultaneous removal of binary mixture of dyes by ultrasonicated assisted adsorption process using Response Surface Methodology. <i>Ultrasonics Sonochemistry</i> , 2017, 38, 197-213. | 8.2 | 44 |
| 5 | Synthesis of carbon loaded γ -Fe ₂ O ₃ nanocomposite and their applicability for the selective removal of binary mixture of dyes by ultrasonic adsorption based on response surface methodology. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 393-408. | 8.2 | 33 |
| 6 | Accurate investigation to determine the best conditions for using NiTiO ₃ for bromophenol blue degradation in the environment under UV-vis light based on concentration reduction and to compare it with TiO ₂ . <i>Environmental Nanotechnology, Monitoring and Management</i> , 2017, 8, 244-253. | 2.9 | 10 |
| 7 | Amine rich functionalized mesoporous silica for the effective removal of alizarin yellow and phenol red dyes from waste waters based on response surface methodology. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 226, 188-198. | 3.5 | 31 |
| 8 | Mechanistic links between magnetic nanoparticles and recovery potential and enhanced capacity for crystal violet of nanoparticles-coated kaolin. <i>Journal of Cleaner Production</i> , 2017, 164, 695-702. | 9.3 | 20 |
| 9 | Synthesis of low-cost adsorbent from rice bran for the removal of reactive dye based on the response surface methodology. <i>Applied Surface Science</i> , 2017, 423, 800-809. | 6.1 | 48 |
| 10 | Polyaniline Nanoparticles: Synthesis, Dispersion and Biomedical Applications. <i>Mini-Reviews in Organic Chemistry</i> , 2017, 14, 56-64. | 1.3 | 17 |
| 11 | Sonocatalytic activity of a heterostructured γ -Bi ₂ O ₃ /Bi ₂ O ₂ CO ₃ nanoplate in degradation of bisphenol A. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 64-72. | 8.2 | 33 |
| 12 | The performance study on ultrasonic/Fe ₃ O ₄ /H ₂ O ₂ for degradation of azo dye and real textile wastewater treatment. <i>Journal of Molecular Liquids</i> , 2018, 256, 462-470. | 4.9 | 118 |
| 13 | Nanoparticle formation in a low pressure argon/aniline RF plasma. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3 | 14 |
| 14 | Biochemical responses of <i>Gammarus pulex</i> to malachite green solutions decolorized by <i>Coriolus versicolor</i> as a biosorbent under batch adsorption conditions optimized with response surface methodology. <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 41-47. | 6.0 | 24 |
| 15 | Facile synthesis and characterisation of AINs using Protein Rich Solution extracted from sewage sludge and its application for ultrasonic assisted dye adsorption: Isotherms, kinetics, mechanism and RSM design. <i>Journal of Environmental Management</i> , 2018, 206, 215-227. | 7.8 | 37 |
| 16 | Ultrasound-assisted surface treatment of ZrO ₂ with BSA and incorporating in PVC to improve the properties of the obtained nanocomposites: Fabrication and characterization. <i>Ultrasonics Sonochemistry</i> , 2018, 41, 350-360. | 8.2 | 9 |
| 17 | Preparation and characterization of γ -Fe ₂ O ₃ nanoparticles and investigation of its adsorption performance for sulfide, sulfite and thiosulfate from aqueous solutions using ultrasonic assisted method: Modeling and optimization. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 1049-1058. | 8.2 | 6 |
| 18 | Fuzzy logic modeling of Pb (II) sorption onto mesoporous NiO/ZnCl ₂ -Rosa Canina-L seeds activated carbon nanocomposite prepared by ultrasound-assisted co-precipitation technique. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 748-762. | 8.2 | 41 |
| 19 | Adsorption properties and mechanisms of palygorskite for removal of various ionic dyes from water. <i>Applied Clay Science</i> , 2018, 151, 20-28. | 5.2 | 137 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 20 | Modified Sugarcane Bagasse with Tartaric Acid for Removal of Diazonium Blue from Aqueous Solutions. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2424-2433. | 5.0 | 12 |
| 21 | A conceptual study on the formulation of a permeable reactive pavement with activated carbon additives for controlling the fate of non-point source environmental organic contaminants. <i>Chemosphere</i> , 2018, 193, 438-446. | 8.2 | 17 |
| 22 | Synthesizing ZrO ₂ Nanoparticle as a Catalyst Through Thermal Decomposition of Phenol-Zirconium Complexes in Order to Degradation of Harmful Organic Substances Under UV Light. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 472. | 0.3 | 0 |
| 23 | Optimization of Ultrasonication Process for the Degradation of Linear Alkyl Benzene Sulfonic Acid by Response Surface Methodology. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700508. | 1.1 | 5 |
| 24 | Facile preparation of hybrid porous polyanilines for highly efficient Cr(VI) removal. <i>RSC Advances</i> , 2018, 8, 33217-33227. | 3.6 | 13 |
| 25 | Facile synthesis, growth process, characterisation of a nanourchin-structured γ -MnO ₂ and their application on ultrasonic-assisted adsorptive removal of cationic dyes: A half-life and half-capacity concentration approach. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 175-189. | 8.2 | 34 |
| 26 | Sono-assisted adsorption of Cristal Violet dye onto Tunisian Smectite Clay: Characterization, kinetics and adsorption isotherms. <i>Ecotoxicology and Environmental Safety</i> , 2018, 163, 365-371. | 6.0 | 77 |
| 27 | Amine-modified silica surface applied as adsorbent in the phenol adsorption assisted by ultrasound. <i>Chemical Engineering Communications</i> , 2019, 206, 1554-1569. | 2.6 | 5 |
| 28 | Formation and behavior of negative ions in low pressure aniline-containing RF plasmas. <i>Scientific Reports</i> , 2019, 9, 10886. | 3.3 | 5 |
| 29 | Kinetic, isotherm and mechanism studies of organic dye adsorption on poly(4,4'-oxybisbenzenamine) and copolymer of poly(4,4'-oxybisbenzenamine-pyrrole) macro-nanoparticles synthesized by multifunctional carbon dots. <i>New Journal of Chemistry</i> , 2019, 43, 1926-1935. | 2.8 | 39 |
| 30 | Ultrasonic assisted enhanced adsorption of methyl orange dye onto polyaniline impregnated zinc oxide nanoparticles: Kinetic, isotherm and optimization of process parameters. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 290-301. | 8.2 | 117 |
| 31 | Polymers and Polymer Composites for Adsorptive Removal of Dyes in Water Treatment. , 2019, , 519-556. | | 5 |
| 32 | Empirical modelling and optimization of pressure-coupled infusion gyration parameters for the nanofibre fabrication. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190008. | 2.1 | 6 |
| 33 | Response Surface Methodology as a Powerful Tool for the Synthesis of Polypyrrole-Doped Organic Sulfonic Acid and the Optimization of its Thermoelectric Properties. <i>Journal of Electronic Materials</i> , 2019, 48, 3662-3675. | 2.2 | 13 |
| 34 | A critical review on ultrasonic-assisted dye adsorption: Mass transfer, half-life and half-capacity concentration approach with future industrial perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1959-2015. | 12.8 | 52 |
| 35 | Thermodynamic and kinetic investigation of heavy metals sorption in packed bed columns by recycled lignocellulosic materials from olive oil production. <i>Chemical Engineering Communications</i> , 2019, 206, 1715-1730. | 2.6 | 13 |
| 36 | Activated carbon prepared from pistachio waste for dye adsorption: experimental and CCD-based design. <i>Pigment and Resin Technology</i> , 2019, 49, 136-144. | 0.9 | 9 |
| 37 | Magnetic chitosan nanocomposite: Fabrication, properties, and optimization for adsorptive removal of crystal violet from aqueous solutions. <i>Carbohydrate Polymers</i> , 2019, 206, 844-853. | 10.2 | 105 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 38 | Preparation of Magnetic Fe ₃ O ₄ /MIL-88A Nanocomposite and Its Adsorption Properties for Bromophenol Blue Dye in Aqueous Solution. <i>Nanomaterials</i> , 2019, 9, 51. | 4.1 | 50 |
| 39 | Application of polyaniline-based adsorbents for dye removal from water and wastewater—a review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 5333-5356. | 5.3 | 234 |
| 40 | Sol-gel synthesis of gelatin-zirconium(IV) tungstophosphate nanocomposite ion exchanger and application for the estimation of Cd(II) ions. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 700-712. | 2.4 | 15 |
| 41 | Ultrasonic assisted synthesis of magnetic Ni-Ag bimetallic nanoparticles supported on reduced graphene oxide for sonochemical simultaneous removal of sunset yellow and tartrazine dyes by response surface optimization: Application of derivative spectrophotometry. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 239-250. | 8.2 | 44 |
| 42 | Silver nanoparticle-embedded pectin-based hydrogel for adsorptive removal of dyes and metal ions. <i>Polymer Bulletin</i> , 2020, 77, 541-564. | 3.3 | 29 |
| 43 | A review on polyaniline-based materials applications in heavy metals removal and catalytic processes. <i>Separation and Purification Technology</i> , 2020, 231, 115901. | 7.9 | 118 |
| 44 | A new Schiff's base polymer for remediation of phenol, 2-chlorophenol and 2,4-dichlorophenol from contaminated aqueous systems. <i>Polymer Bulletin</i> , 2020, 77, 2367-2383. | 3.3 | 7 |
| 45 | Sonochemical preparation of polyaniline@TiO ₂ and polyaniline@SiO ₂ for the removal of anionic and cationic dyes. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104864. | 8.2 | 33 |
| 46 | Experimental investigation on the perfluorooctanoic and perfluorooctane sulfonic acids fate and behaviour in the activated sludge reactor. <i>Chemical Engineering Research and Design</i> , 2020, 134, 406-415. | 5.6 | 25 |
| 47 | Rice husk ash derived nanocrystalline ZSM-5 for highly efficient removal of a toxic textile dye. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14853-14864. | 5.8 | 28 |
| 48 | L-Ascorbic Acid-g-Polyaniline Mesoporous Silica Nanocomposite for Efficient Removal of Crystal Violet: A Batch and Fixed Bed Breakthrough Studies. <i>Nanomaterials</i> , 2020, 10, 2402. | 4.1 | 9 |
| 49 | Bovine serum albumin adsorption by Bi-functionalized HMS, nitrilotriacetic acid -amine modified hexagonal mesoporous silicate. <i>Solid State Sciences</i> , 2020, 103, 106194. | 3.2 | 11 |
| 50 | Anionic dye uptake via composite using chitosan-polyacrylamide hydrogel as matrix containing TiO ₂ nanoparticles; comprehensive adsorption studies. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 150-162. | 7.5 | 61 |
| 51 | Optimization of synergistic biosorption of oxytetracycline and cadmium from binary mixtures on reed-based beads: modeling study using Brouers-Sotolongo models. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46431-46447. | 5.3 | 18 |
| 52 | Adsorptive Removal of Crystal Violet from Water by Chemically Modified Coconut Shell. <i>Water Conservation Science and Engineering</i> , 2020, 5, 159-168. | 1.7 | 4 |
| 53 | The Nanosized Dye Adsorbents for Water Treatment. <i>Nanomaterials</i> , 2020, 10, 295. | 4.1 | 114 |
| 54 | Calcined lotus leaf as a low-cost and highly efficient biosorbent for removal of methyl violet dye from aqueous media. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 2761-2784. | 3.3 | 27 |
| 55 | Innovative sequential combination of fixed bed adsorption/desorption and photocatalysis cost-effective process to remove antibiotics in solution. <i>Progress in Organic Coatings</i> , 2021, 151, 106014. | 3.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 56 | Recent advances on the removal of dyes from wastewater using various adsorbents: a critical review. <i>Materials Advances</i> , 2021, 2, 4497-4531. | 5.4 | 421 |
| 57 | Crystal violet dye removal from aqueous water using polyacrylonitrile precursor beads. <i>Materials Today: Proceedings</i> , 2021, 42, 2185-2192. | 1.8 | 5 |
| 58 | A Review on Polymer Nanocomposites and Their Effective Applications in Membranes and Adsorbents for Water Treatment and Gas Separation. <i>Membranes</i> , 2021, 11, 139. | 3.0 | 89 |
| 60 | Grafting of Acrylic Membrane Prepared from Fibers Waste for Dyes Removal: Methylene Blue and Congo Red. <i>Separations</i> , 2021, 8, 42. | 2.4 | 13 |
| 61 | Facile synthesis of Fe ₃ O ₄ anchored polyaniline intercalated graphene oxide as an effective adsorbent for the removal of hexavalent chromium and phosphate ions. <i>Chemosphere</i> , 2021, 272, 129851. | 8.2 | 28 |
| 62 | Evaluation of textile wastewater treatment in sequential anaerobic moving bed bioreactor - aerobic membrane bioreactor. <i>Process Biochemistry</i> , 2021, 105, 62-71. | 3.7 | 16 |
| 63 | Ultrasound facilitates and improves removal of triphenylmethane (crystal violet) dye from aqueous solution by activated charcoal: A kinetic study. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101231. | 5.2 | 9 |
| 64 | Egg yolk/ZIF-8/CLPAA composite aerogel: Preparation, characterization and adsorption properties for organic dyes. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122158. | 2.9 | 12 |
| 65 | Chitosan-graft-poly(N-tert-butylacrylamide) Copolymer: Synthesis, Characterization and Optimization of Tetracycline Removal Using RSM. <i>Journal of Polymers and the Environment</i> , 2022, 30, 752-764. | 5.0 | 3 |
| 66 | Understanding the removal of an anionic dye in textile wastewaters by adsorption on ZnCl ₂ activated carbons from rice and coffee husk wastes: A combined experimental and theoretical study. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105685. | 6.7 | 68 |
| 67 | The superior adsorption capacity of 2,4-Dinitrophenol under ultrasound-assisted magnetic adsorption system: Modeling and process optimization by central composite design. <i>Journal of Hazardous Materials</i> , 2021, 418, 126348. | 12.4 | 78 |
| 68 | Enhanced sono-assisted adsorptive uptake of malachite green dye onto magnesium ferrite nanoparticles: Kinetic, isotherm and cost analysis. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100506. | 2.9 | 22 |
| 70 | Conductive Polymers and Their Nanocomposites as Adsorbents in Environmental Applications. <i>Polymers</i> , 2021, 13, 3810. | 4.5 | 33 |
| 71 | A comprehensive review on the removal of noxious pollutants using carrageenan based advanced adsorbents. <i>Chemosphere</i> , 2022, 289, 133100. | 8.2 | 29 |
| 72 | Preparation of Magnetic Composite Polyaniline/Fe ₃ O ₄ ~Hydrotalcite and Performance in Removal of Methyl Orange. <i>Adsorption Science and Technology</i> , 2021, 2021, 1-18. | 3.2 | 3 |
| 73 | Fabrication of polyaniline-coated porous and fibrous nanocomposite with granular morphology using tea waste carbon for effective removal of rhodamine B dye from water samples. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1711-1730. | 4.6 | 20 |
| 74 | Anti-microbial and methylene blue dye adsorption properties of cotton fabrics modified with TiO ₂ , Fe, Ag-doped TiO ₂ , and graphene oxide nanomaterials. <i>Textile Research Journal</i> , 2022, 92, 3299-3315. | 2.2 | 4 |
| 75 | Sulfonatocalix[6]arene-decorated magnetite nanomaterials for the removal of organic pollutants from water. <i>International Journal of Environmental Science and Technology</i> , 0, , . | 3.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 76 | Hierarchical graphite oxide decorated UiO-66 for ultrahigh adsorption of dye with synergistic effect of ultrasonication: Experimental and density functional theory study. Separation and Purification Technology, 2022, 294, 121217. | 7.9 | 17 |
| 77 | Novel acoustic-activated alkali-functionalized Trapa bispinosa peel biochar for green immobilization of chlorpyrifos from wastewater: artificial intelligence modelling and experimental validation. Biomass Conversion and Biorefinery, 0, , . | 4.6 | 7 |
| 78 | Adsorptive removal of crystal violet dye from aqueous solution onto coconut coir. Chemical Industry and Chemical Engineering Quarterly, 2023, 29, 11-22. | 0.7 | 0 |
| 79 | Fabrication, characterization, and photocatalytic degradation potential of chitosan-conjugated manganese magnetic nano-biocomposite for emerging dye pollutants. Chemosphere, 2022, 306, 135647. | 8.2 | 21 |
| 80 | Mycosynthesis of Hematite (α -Fe ₂ O ₃) Nanoparticles Using Aspergillus niger and Their Antimicrobial and Photocatalytic Activities. Bioengineering, 2022, 9, 397. | 3.5 | 47 |
| 81 | Combining pH-triggered adsorption and photocatalysis for the remediation of complex water matrices. Journal of Environmental Chemical Engineering, 2022, 10, 108468. | 6.7 | 12 |
| 82 | Formation of Polyaniline (PANI) multilayer film using humic acid as the bridging agent: Screening on the fabrication technique. , 2022, 20, 16-23. | | 0 |
| 83 | Unravelling the Methylene Blue Adsorption Mechanism on Doped and Nondoped Polyaniline: A Combined Molecular Modeling and Experimental Investigation. International Journal of Chemical Engineering, 2022, 2022, 1-18. | 2.4 | 5 |
| 84 | Sonophotocatalytic degradation of malachite green in aqueous solution using six competitive metal oxides as a benchmark. Photochemical and Photobiological Sciences, 2023, 22, 579-594. | 2.9 | 4 |
| 85 | Sustainable Synthesis of Iron-Zinc Nanocomposites by Azadirachta indica Leaves Extract for RSM-Optimized Sono-Adsorptive Removal of Crystal Violet Dye. Materials, 2023, 16, 1023. | 2.9 | 5 |
| 86 | Granite waste mediated synthesis of polyaniline nanofibers for the catalytic reduction of hazardous organic water toxins. Inorganic Chemistry Communication, 2023, 152, 110688. | 3.9 | 4 |
| 87 | Grafting the ferrites of cobalt and zinc on MWCNTs for adsorption of crystal violet. International Journal of Environmental Science and Technology, 2023, 20, 12465-12480. | 3.5 | 1 |
| 88 | Remarkable High Adsorption of Methylene Blue Dye from Aqueous Solutions Using Facilely Synthesized MgFe ₂ O ₄ Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2023, 33, 2035-2045. | 3.7 | 7 |
| 89 | Polyvinyl Alcohol Assisted Iron-Zinc Nanocomposite for Enhanced Optimized Rapid Removal of Malachite Green Dye. Nanomaterials, 2023, 13, 1747. | 4.1 | 3 |
| 90 | Synthesis, Characterization and Potential Application of Functionalised Binary Metallic Sulphide for Water Reclamation. , 2023, 1, 100011. | | 2 |
| 91 | Fabrication and characterization of organometallic nanocomposite for efficient abatement of dye laden wastewater: CCD optimization, adsorption mechanism, co-existing ions, and cost analysis. Chemical Physics Letters, 2023, 830, 140820. | 2.6 | 6 |
| 92 | Fabrication of Size-Controlled MOF-74-Derived Porous Nanospheres toward Efficient Water Treatment. Crystal Growth and Design, 2023, 23, 7345-7354. | 3.0 | 1 |
| 93 | Nanocomposites of PVA-PVP and l-ascorbic acid modified ZnO:Fe via ultrasonic irradiation as a green technique: Latent fingerprint detection, food packing and anti-bacterial applications. Inorganic Chemistry Communication, 2023, 156, 111161. | 3.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 94 | Polyaniline-based adsorbents for water treatment: Roles of low-cost materials and 2D materials. Chemical Engineering Journal, 2023, 478, 147506. | 12.7 | 4 |
| 95 | Adsorptive performance of bentonite-chitosan nanocomposite as a dual antibacterial and reusable adsorbent for Reactive Red 195 and crystal violet removal: kinetic and thermodynamic studies. Biomass Conversion and Biorefinery, 0, , . | 4.6 | 1 |
| 96 | Synergistic adsorption/photodegradation effect for effective removal of crystal violet dye and acetamiprid pesticide using Fe ³⁺ cross-linked ternary carboxymethyl cellulose/polyaniline/TiO ₂ photocomposites. Journal of Water Process Engineering, 2024, 57, 104670. | 5.6 | 0 |
| 97 | Fabrication of polyaniline based calcium ferrite nanocomposite and its application in sequestration of Victoria blue dye from wastewater. Journal of Dispersion Science and Technology, 0, , 1-15. | 2.4 | 1 |
| 98 | Synthesis of NFO-immobilized yeast nanobiocomposite for ultrasound-assisted photo-fenton degradation of methylene blue by using central composite design. Surfaces and Interfaces, 2024, 44, 103725. | 3.0 | 0 |
| 99 | Starch Grafted Pyrolusite Composite for Enhanced Removal of Malachite Green from Water and Wastewater. Water, Air, and Soil Pollution, 2024, 235, . | 2.4 | 0 |
| 100 | Surfactant-Assisted synthesis of Fe^{2+} - and Fe^{3+} -Ag ₂ WO ₄ modified with Sulphur, Phosphorous, and boron and their applications in wastewater elimination. Journal of Photochemistry and Photobiology A: Chemistry, 2024, 450, 115458. | 3.9 | 0 |