

Animesh Debnath

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,531
citations

279798

23
h-index

330143

37
g-index

47
all docs

47
docs citations

47
times ranked

1161
citing authors

#	ARTICLE	IF	CITATIONS
1	The effective adsorption of tetracycline onto zirconia nanoparticles synthesized by novel microbial green technology. <i>Journal of Environmental Management</i> , 2020, 261, 110235.	7.8	138
2	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
3	Mixed phase Fe ₂ O ₃ /Mn ₃ O ₄ magnetic nanocomposite for enhanced adsorption of methyl orange dye: Neural network modeling and response surface methodology optimization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4186.	3.5	83
4	Synthesis and characterization of mixed phase manganese ferrite and hausmannite magnetic nanoparticle as potential adsorbent for methyl orange from aqueous media: Artificial neural network modeling. <i>Journal of Molecular Liquids</i> , 2016, 219, 1010-1022.	4.9	74
5	A Hybrid MCDM Approach for Strategic Project Portfolio Selection of Agro By-Products. <i>Sustainability</i> , 2017, 9, 1302.	3.2	67
6	Sono-assisted rapid adsorption of anionic dye onto magnetic CaFe ₂ O ₄ /MnFe ₂ O ₄ nanocomposite from aqua matrix. <i>Powder Technology</i> , 2019, 354, 496-504.	4.2	64
7	Enhanced Adsorption of Hexavalent Chromium onto Magnetic Calcium Ferrite Nanoparticles: Kinetic, Isotherm, and Neural Network Modeling. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 1806-1818.	2.4	59
8	Boosted sono-oxidative catalytic degradation of Brilliant green dye by magnetic MgFe ₂ O ₄ catalyst: Degradation mechanism, assessment of bio-toxicity and cost analysis. <i>Ultrasonics Sonochemistry</i> , 2021, 75, 105592.	8.2	57
9	Mature landfill leachate treatment using sonolytic-persulfate/hydrogen peroxide oxidation: Optimization of process parameters. <i>Ultrasonics Sonochemistry</i> , 2019, 54, 210-219.	8.2	55
10	Enhanced adsorptive removal of toxic anionic dye by novel magnetic polymeric nanocomposite: optimization of process parameters. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 880-895.	2.4	52
11	Sono-assisted enhanced adsorption of eriochrome Black-T dye onto a novel polymeric nanocomposite: kinetic, isotherm, and response surface methodology optimization. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 1579-1592.	2.4	48
12	Simple Chemical Route Synthesis of Fe ₂ O ₃ Nanoparticles and its Application for Adsorptive Removal of Congo Red from Aqueous Media: Artificial Neural Network Modeling. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 775-785.	2.4	47
13	Interaction of anionic dyes with polyaniline implanted cellulose: Organic π -conjugated macromolecules in environmental applications. <i>Journal of Molecular Liquids</i> , 2018, 261, 189-198.	4.9	41
14	Fabrication of PANI@Fe ²⁺ Mn ²⁺ Zr hybrid material and assessments in sono-assisted adsorption of methyl red dye: Uptake performance and response surface optimization. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100635.	2.8	41
15	Application of polyaniline impregnated mixed phase Fe ₂ O ₃ , MnFe ₂ O ₄ and ZrO ₂ nanocomposite for rapid abatement of binary dyes from aqua matrix: response surface optimisation. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 5938-5956.	3.3	40
16	Methyl orange adsorption onto simple chemical route synthesized crystalline γ -Fe ₂ O ₃ nanoparticles: kinetic, equilibrium isotherm, and neural network modeling. <i>Desalination and Water Treatment</i> , 2016, 57, 13549-13560.	1.0	39
17	Synthesis of MnFe ₂ O ₄ and Mn ₃ O ₄ magnetic nano-composites with enhanced properties for adsorption of Cr(VI): artificial neural network modeling. <i>Water Science and Technology</i> , 2017, 76, 3368-3378.	2.5	36
18	Enhanced adsorption performance of a novel Fe ²⁺ Mn ²⁺ Zr metal oxide nanocomposite adsorbent for anionic dyes from binary dye mix: Response surface optimization and neural network modeling. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4165.	3.5	35

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19	Fabrication of mixed phase calcium ferrite and zirconia nanocomposite for abatement of methyl orange dye from aqua matrix: Optimization of process parameters. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4607.	3.5	35
20	Reactive orange 12 dye adsorption onto magnetically separable CaFe ₂ O ₄ nanoparticles synthesized by simple chemical route: kinetic, isotherm and neural network modeling. <i>Water Practice and Technology</i> , 2021, 16, 1141-1158.	2.0	35
21	Ultrasound-aided rapid and enhanced adsorption of anionic dyes from binary dye matrix onto novel hematite/polyaniline nanocomposite: Response surface methodology optimization. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5353.	3.5	34
22	Fabrication of mixed phase CaFe ₂ O ₄ and MnFe ₂ O ₄ magnetic nanocomposite for enhanced and rapid adsorption of methyl orange dye: statistical modeling by neural network and response surface methodology. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1937-1948.	2.4	31
23	Facile additive-free synthesis of hematite nanoparticles for enhanced adsorption of hexavalent chromium from aqueous media: Kinetic, isotherm, and thermodynamic study. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 1605-1613.	1.6	26
24	Ultrasound-assisted enhanced and rapid uptake of anionic dyes from the binary system onto MnFe ₂ O ₄ /polyaniline nanocomposite at neutral pH. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5711.	3.5	26
25	Ultrasonically enhanced dye removal using conducting polymer functionalised ZnO nanocomposite at near neutral pH: kinetic study, isotherm modelling and adsorbent cost analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 8055-8074.	3.3	22
26	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
27	GAME THEORY BASED MULTI CRITERIA DECISION MAKING PROBLEM UNDER UNCERTAINTY: A CASE STUDY ON INDIAN TEA INDUSTRY. <i>Journal of Business Economics and Management</i> , 2018, 19, 154-175.	2.4	21
28	Effective Remediation of an Antibacterial Drug from Aqua Matrix Using CaFe ₂ O ₄ /ZrO ₂ Nanocomposite Derived via Inorganic Chemical Pathway: Statistical Modelling by Response Surface Methodology. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7289-7303.	3.0	19
29	Enhanced persulfate activated sono-catalytic degradation of brilliant green dye by magnetic CaFe ₂ O ₄ nanoparticles: Degradation pathway study, assessment of bio-toxicity and cost analysis. <i>Surfaces and Interfaces</i> , 2021, 26, 101412.	3.0	19
30	Polaron localization in polyaniline through methylene blue dye interaction for tuned charge transport and optical properties. <i>Colloid and Polymer Science</i> , 2018, 296, 1927-1934.	2.1	18
31	A Cognitive Approach in Selection of Source for Water Treatment Plant based on Climatic Impact. <i>Water Resources Management</i> , 2015, 29, 1907-1919.	3.9	14
32	Preparation and characterization of magnetic CaFe ₂ O ₄ nanoparticles for efficient adsorption of toxic Congo Red dye from aqueous solution: predictive modelling by artificial neural network. , 0, , 197-209.		14
33	Potential of Fuzzy-ELECTRE MCDM in Evaluation of Cyanobacterial Toxins Removal Methods. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 3931-3944.	1.1	12
34	Mesoporous Iron-Manganese Magnetic Bimetal Oxide for Efficient Removal of Cr(VI) from Synthetic Aqueous Solution. <i>Applied Mechanics and Materials</i> , 0, 877, 33-38.	0.2	12
35	Microwave induced catalytic treatment of brilliant green dye with carbon doped zinc oxide nanoparticles: Central composite design, toxicity assessment and cost analysis. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 14, 100361.	2.9	11
36	Spectroscopic Studies on Interaction of Congo Red with Ferric Chloride in Aqueous Medium for Wastewater Treatment. <i>Separation Science and Technology</i> , 2015, 50, 1684-1688.	2.5	10

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37	Measuring Corporate Social Responsibility Based on Fuzzy Analytic Networking Process-Based Balance Scorecard Model. International Journal of Information Technology and Decision Making, 2018, 17, 1203-1235.	3.9	9
38	Quick and enhanced separation of Eosin Yellow dye from aqueous solution by FeCl ₃ interaction: thermodynamic study and treatment cost analysis. International Journal of Environmental Analytical Chemistry, 0, , 1-21.	3.3	9
39	Studies on magnetic properties of chemically synthesized crystalline calcium ferrite nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	8
40	Experimental design to optimise colour removal of diazo dye Congo Red using Zero-Valent Iron. International Journal of Environment and Waste Management, 2013, 11, 267.	0.3	7
41	Polyaniline encapsulated graphite: A sensitive system for resistive detection of methanol. Surfaces and Interfaces, 2019, 16, 141-146.	3.0	7
42	Mixed Phase Crystalline Hausmannite and Manganese Ferrite Nanoparticles with Magnetic Properties for Environmental Application. Materials Today: Proceedings, 2018, 5, 2300-2305.	1.8	6
43	Thermodynamic Studies on the Interaction of Congo Red with Ferric Chloride in Aqueous Medium for Waste Water Treatment. Advanced Science Letters, 2016, 22, 242-245.	0.2	2
44	Application of magnetic nanocomposite in adsorptive remediation of synthetic dye-laden wastewater. , 2022, , 621-651.		2
45	A short review on different techniques used for site selection of air quality monitoring stations. Journal of Industrial Engineering and Decision Making, 2021, 2, 27-30.	1.1	1