

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	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
2	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
3	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
4	Application of magnetic nanocomposite in adsorptive remediation of synthetic dye-laden wastewater. , 2022, , 621-651.		2
5	Fabrication of PANI@Fe-Mn-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
6	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
7	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
8	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
9	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
10	A short review on different techniques used for site selection of air quality monitoring stations. <i>Journal of Industrial Engineering and Decision Making</i> , 2021, 2, 27-30.	1.1	1
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Sono-assisted rapid adsorption of anionic dye onto magnetic CaFe ₂ O ₄ /MnFe ₂ O ₄ nanocomposite from aqua matrix. Powder Technology, 2019, 354, 496-504.	4.2	64
20	Polyaniline encapsulated graphite: A sensitive system for resistive detection of methanol. Surfaces and Interfaces, 2019, 16, 141-146.	3.0	7
21	Mature landfill leachate treatment using sonolytic-persulfate/hydrogen peroxide oxidation: Optimization of process parameters. Ultrasonics Sonochemistry, 2019, 54, 210-219.	8.2	55
22	Interaction of anionic dyes with polyaniline implanted cellulose: Organic π -conjugated macromolecules in environmental applications. Journal of Molecular Liquids, 2018, 261, 189-198.	4.9	41
23	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
24	Mixed Phase Crystalline Hausmannite and Manganese Ferrite Nanoparticles with Magnetic Properties for Environmental Application. Materials Today: Proceedings, 2018, 5, 2300-2305.	1.8	6
25	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. Applied Organometallic Chemistry, 2018, 32, e4186.	3.5	83
26	Enhanced adsorption performance of a novel Fe-Mn-Zr metal oxide nanocomposite adsorbent for anionic dyes from binary dye mix: Response surface optimization and neural network modeling. Applied Organometallic Chemistry, 2018, 32, e4165.	3.5	35
27	Fabrication of mixed phase calcium ferrite and zirconia nanocomposite for abatement of methyl orange dye from aqua matrix: Optimization of process parameters. Applied Organometallic Chemistry, 2018, 32, e4607.	3.5	35
28	Polaron localization in polyaniline through methylene blue dye interaction for tuned charge transport and optical properties. Colloid and Polymer Science, 2018, 296, 1927-1934.	2.1	18
29	GAME THEORY BASED MULTI CRITERIA DECISION MAKING PROBLEM UNDER UNCERTAINTY: A CASE STUDY ON INDIAN TEA INDUSTRY. Journal of Business Economics and Management, 2018, 19, 154-175.	2.4	21
30	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. Water Science and Technology, 2017, 76, 3368-3378.	2.5	36
31	Facile additive-free synthesis of hematite nanoparticles for enhanced adsorption of hexavalent chromium from aqueous media: Kinetic, isotherm, and thermodynamic study. Inorganic and Nano-Metal Chemistry, 2017, 47, 1605-1613.	1.6	26
32	A Hybrid MCDM Approach for Strategic Project Portfolio Selection of Agro By-Products. Sustainability, 2017, 9, 1302.	3.2	67
33	Studies on magnetic properties of chemically synthesized crystalline calcium ferrite nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	8
34	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. Journal of Molecular Liquids, 2016, 219, 1010-1022.	4.9	74
35	Enhanced Adsorption of Hexavalent Chromium onto Magnetic Calcium Ferrite Nanoparticles: Kinetic, Isotherm, and Neural Network Modeling. Journal of Dispersion Science and Technology, 2016, 37, 1806-1818.	2.4	59
36	Potential of Fuzzy-ELECTRE MCDM in Evaluation of Cyanobacterial Toxins Removal Methods. Arabian Journal for Science and Engineering, 2016, 41, 3931-3944.	1.1	12

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37	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. Journal of Dispersion Science and Technology, 2016, 37, 775-785.	2.4	47
38	Methyl orange adsorption onto simple chemical route synthesized crystalline γ -Fe ₂ O ₃ nanoparticles: kinetic, equilibrium isotherm, and neural network modeling. Desalination and Water Treatment, 2016, 57, 13549-13560.	1.0	39
39	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
40	Spectroscopic Studies on Interaction of Congo Red with Ferric Chloride in Aqueous Medium for Wastewater Treatment. Separation Science and Technology, 2015, 50, 1684-1688.	2.5	10
41	A Cognitive Approach in Selection of Source for Water Treatment Plant based on Climatic Impact. Water Resources Management, 2015, 29, 1907-1919.	3.9	14
42	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
43	Mesoporous Iron-Manganese Magnetic Bimetal Oxide for Efficient Removal of Cr(VI) from Synthetic Aqueous Solution. Applied Mechanics and Materials, 0, 877, 33-38.	0.2	12
44	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
45	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