

Asad Mahmood

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,465
citations

361296

20
h-index

330025

37
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45
all docs

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docs citations

45
times ranked

2072
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalysts for degradation of dyes in industrial effluents: Opportunities and challenges. <i>Nano Research</i> , 2019, 12, 955-972.	5.8	430
2	Graphene and its nanocomposites as a platform for environmental applications. <i>Chemical Engineering Journal</i> , 2017, 315, 210-232.	6.6	108
3	Carboxymethyl chitosan-modified magnetic-cored dendrimer as an amphoteric adsorbent. <i>Journal of Hazardous Materials</i> , 2016, 317, 608-616.	6.5	100
4	Synthesis and characterization of a heterojunction rGO/ZrO ₂ /Ag ₃ PO ₄ nanocomposite for degradation of organic contaminants. <i>Journal of Hazardous Materials</i> , 2018, 358, 416-426.	6.5	86
5	Near-infrared to visible photon transition by upconverting NaYF ₄ : Yb ³⁺ , Gd ³⁺ , Tm ³⁺ @Bi ₂ WO ₆ core@shell composite for bisphenol A degradation in solar light. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 438-447.	10.8	81
6	Nano zero-valent iron impregnated on titanium dioxide nanotube array film for both oxidation and reduction of methyl orange. <i>Water Research</i> , 2013, 47, 1858-1866.	5.3	47
7	Sorption and reduction of tetrachloroethylene with zero valent iron and amphiphilic molecules. <i>Chemosphere</i> , 2006, 64, 1047-1052.	4.2	40
8	Graphene quantum dots on stainless-steel nanotubes for enhanced photocatalytic degradation of phenanthrene under visible light. <i>Chemosphere</i> , 2020, 246, 125761.	4.2	40
9	Determination of a risk management primer at petroleum-contaminated sites: Developing new human health risk assessment strategy. <i>Journal of Hazardous Materials</i> , 2011, 185, 1374-1380.	6.5	39
10	Stability and reusability of amine-functionalized magnetic-cored dendrimer for heavy metal adsorption. <i>Journal of Materials Science</i> , 2017, 52, 843-857.	1.7	36
11	A novel total petroleum hydrocarbon fractionation strategy for human health risk assessment for petroleum hydrocarbon-contaminated site management. <i>Journal of Hazardous Materials</i> , 2010, 179, 1128-1135.	6.5	35
12	Nano TiO ₂ -functionalized magnetic-cored dendrimer as a photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 973-979.	10.8	34
13	Selective transport and separation of charge carriers by an electron transport layer in NiCo ₂ S ₄ /CdO@CC for excellent water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118564.	10.8	31
14	Effect of generation growth on photocatalytic activity of nano TiO ₂ -magnetic cored dendrimers. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 44, 52-59.	2.9	30
15	Competitive adsorption of heavy metals and uranium on soil constituents and microorganism. <i>Geosciences Journal</i> , 2005, 9, 53-61.	0.6	26
16	Calibration of LEACHN model using LH-OAT sensitivity analysis. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 87, 261-275.	1.1	25
17	Organobentonite for Sorption and Degradation of Phenol in the Presence of Heavy Metals. <i>Water, Air, and Soil Pollution</i> , 2004, 154, 225-237.	1.1	24
18	Iron oxide nanotube layer fabricated with electrostatic anodization for heterogeneous Fenton like reaction. <i>Journal of Hazardous Materials</i> , 2014, 273, 1-6.	6.5	24

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19	Simulating alveoli-inspired air pockets in a ZnO/NiMoO ₄ /C ₃ N ₄ catalyst filter for toluene entrapment and photodecomposition. <i>Journal of Hazardous Materials</i> , 2021, 409, 124497.	6.5	23
20	EFFECT OF COEXISTING COMPOUNDS ON THE SORPTION AND REDUCTION OF TRICHLOROETHYLENE WITH IRON. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 11.	2.2	20
21	Radioactive removal by adsorption on Yesan clay and zeolite. <i>Environmental Earth Sciences</i> , 2013, 68, 2393-2398.	1.3	19
22	TiO ₂ /CdS nanocomposite stabilized on a magnetic-cored dendrimer for enhanced photocatalytic activity and reusability. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 801-809.	5.0	18
23	Addressing the OER/HER imbalance by a redox transition-induced two-way electron injection in a bifunctional n ⁺ p ⁺ electrode for excellent water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13218-13230.	5.2	17
24	Decontamination of radioactive cesium-contaminated soil/concrete with washing and washing supernatant – critical review. <i>Chemosphere</i> , 2021, 280, 130419.	4.2	16
25	Analogous crystal orientation for immobilizing rGO/ZrO ₂ /Ag ₃ PO ₄ nanocomposite on a fluorine-doped tin oxide substrate. <i>Journal of Hazardous Materials</i> , 2019, 369, 375-383.	6.5	12
26	The role of terminal groups in dendrimer systems for the treatment of organic contaminants in aqueous environments. <i>Journal of Cleaner Production</i> , 2020, 250, 119494.	4.6	12
27	Lorentz force promoted charge separation in a hierarchical, bandgap tuned, and charge reversible Ni _x Mn _(0.5-x) O photocatalyst for sulfamethoxazole degradation. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120724.	10.8	11
28	Numerical investigation for the isolation effect of in situ capping for heavy metals in contaminated sediments. <i>KSCE Journal of Civil Engineering</i> , 2013, 17, 1275-1283.	0.9	10
29	Leachate modeling for a municipal solid waste landfill for upper expansion. <i>KSCE Journal of Civil Engineering</i> , 2010, 14, 473-480.	0.9	9
30	Adsorption of NH ₄ ⁺ -N and E. coli onto Mg ²⁺ -modified zeolites. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	9
31	Computational calculation identified optimal binding sites in nano-sized magnetic-cored dendrimer. <i>Chemosphere</i> , 2018, 210, 287-295.	4.2	7
32	Application of metal-air fuel cell electrocoagulation for the harvesting of <i>Nannochloropsis salina</i> marine microalgae. <i>Renewable Energy</i> , 2021, 171, 1224-1235.	4.3	7
33	Environmental impact assessment using a GSR tool for a landfarming case in South Korea. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 231.	1.3	4
34	A simplified sampling procedure for the estimation of methane emission in rice fields. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 468.	1.3	4
35	Photodegradation of benzene and phenanthrene in aqueous solution using pulsed ultraviolet light. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 1607-1613.	0.9	4
36	Agglomeration of 10 nm amine-functionalized nano-magnetite does not hinder its efficiency as an environmental adsorbent. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 648-656.	0.9	4

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37	Optimal generation number in magnetic-cored dendrimers as Pb(II) and Cd(II) adsorbents. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3412-3419.	1.2	4
38	Recovery of iron reactivity for removal of Cr(VI) using iron-reducing consortium. <i>KSCE Journal of Civil Engineering</i> , 2006, 10, 175-180.	0.9	3
39	Transformation impacts of dissolved and solid phase Fe(II) on trichloroethylene (TCE) reduction in an iron-reducing bacteria (IRB) mixed column system: A mathematical model. <i>Water Research</i> , 2012, 46, 6391-6398.	5.3	3
40	Contribution of Different Quantities of Leaf Litter to Nitrous Oxide Emission from a Temperate Deciduous Forest. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 1163-1175.	0.9	3
41	UV Spectroscopic Monitoring of Vaporized Monoaromatic Hydrocarbons from Petroleum-Contaminated Soils. <i>Environmental Monitoring and Assessment</i> , 2006, 120, 527-536.	1.3	2
42	Numerical investigation of the gel barrier formation with vertical injection pipe. <i>Environmental Geology</i> , 2007, 53, 635-642.	1.2	2
43	Enhanced Heavy Metal Sorption by Surface-Oxidized Activated Carbon Does Not Affect the PAH Sequestration in Sediments. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3195-3206.	1.1	2
44	<i>Eisenia fetida</i> growth inhibition by amended activated carbon causes less bioaccumulation of heavy metals. <i>Journal of Soils and Sediments</i> , 2014, 14, 1766-1773.	1.5	2
45	An Environmental Impact Assessment Model with Monetary Valuation for Remediation in South Korea. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 4168-4173.	0.9	2