

Aamna Balouch

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

1,271
citations

331670

21
h-index

434195

31
g-index

76
all docs

76
docs citations

76
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-Friendly Conversion of <i>p</i> -Nitrophenol into <i>p</i> -Aminophenol Using Calix[4]arene Derived CuO Nanoparticles: An Excellent Catalytic Agent. <i>Polycyclic Aromatic Compounds</i> , 2023, 43, 4843-4855.	2.6	5
2	Ultrasensitive colorimetric detection of Hg ²⁺ in aqueous media via green synthesis by <i>Ziziphus mauritiana</i> Leaf extract-based silver nanoparticles. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 7046-7061.	3.3	8
3	Effective photocatalytic methylene orange dye degradation ability in coloured textile contaminated water by highly efficient catalyst Schiff-based resin-encapsulated supported on TiO ₂ @SiO ₂ metal oxide nanoparticles. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 3561-3575.	3.3	4
4	Efficient mitigation of cadmium and lead toxicity in coriander plant utilizing magnetite (Fe ₃ O ₄) nanofertilizer as growth regulator and antimicrobial agent. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 3868-3879.	3.3	23
5	Synthesis of zinc oxide nanoparticles and their functionalisation with chrysin: exploration of its applications. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1662-1671.	3.3	7
6	Preparation of MgO@SiO ₂ encapsulated polymethylene bis(pyrrrole-2-carboxaldehyde)-o-phenylenediimine: applied as efficient adsorbent for Cu (II) ions from aqueous system. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 159-173.	3.3	3
7	Selective and sensitive detoxification of toxic lead ions from drinking water using lead (II) ion-imprinted interpenetrating polymer linkage. <i>Polymer Bulletin</i> , 2022, 79, 1887-1909.	3.3	9
8	Highly efficient and selective heterogeneous catalytic reduction of 2-nitroaniline by cerium oxide nanocatalyst under microwave irradiation. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 3631-3645.	2.2	6
9	Fabrication of Cobalt tagged smart ion-imprinted polymeric material applied for the elimination of Co ²⁺ ions from real environmental samples. <i>Polymer Bulletin</i> , 2022, 79, 10135-10153.	3.3	5
10	Fabrication of Fe/Bi bimetallic magnetic nano-oxides (IBBMNOs) as efficient remediator for hexavalent chromium from aqueous environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 65161-65175.	5.3	2
11	Evaluation of the performance of a selective magnetite molecularly imprinted polymer for extraction of quercetin from onion samples. <i>Microchemical Journal</i> , 2021, 162, 105849.	4.5	13
12	Fabrication of TiO ₂ @ITO-grown nanocatalyst as efficient applicant for catalytic reduction of Eosin Y from aqueous media. <i>Environmental Science and Pollution Research</i> , 2021, 28, 947-959.	5.3	11
13	Voltammetric detection of caffeine content in different tea stuffs by using Co ₃ O ₄ /GCE-Nafion electrode. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 701-708.	2.2	4
14	Remediation of toxic fluoride from aqueous media by various techniques. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 482-505.	3.3	12
15	Fabrication of silane-modified magnetic nano sorbent for enhanced ultrasonic wave driven removal of methylene blue from aqueous media: Isotherms, kinetics, and thermodynamic mechanistic studies. <i>Turkish Journal of Chemistry</i> , 2021, 45, 181-191.	1.2	2
16	Green synthesis of MgO nanocatalyst by using <i>Ziziphus mauritiana</i> leaves and seeds for biodiesel production. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6199.	3.5	26
17	Fabrication of nickel-tagged magnetic imprinted polymeric network for the selective extraction of Ni(II) from the real aqueous samples. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40022-40034.	5.3	7
18	Electrochemical sensing of dopamine via bio-assisted synthesized silver nanoparticles. <i>International Nano Letters</i> , 2021, 11, 263-271.	5.0	9

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19	A Practical Non-Enzymatic, Ultra-Sensitive Molybdenum Oxide (MoO ₃) Electrochemical Nanosensor for Hydroquinone. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056503.	2.9	11
20	Importance and Analytical Perspective of Green Synthetic Strategies of Copper, Zinc, and Titanium Oxide Nanoparticles and their Applications in Pathogens and Environmental Remediation. <i>Current Analytical Chemistry</i> , 2021, 17, 1169-1181.	1.2	11
21	Effective and viable photocatalytic degradation of rhodamine B dye in aqueous media using CuO/PVA nanocomposites. <i>New Journal of Chemistry</i> , 2021, 45, 16500-16510.	2.8	11
22	Highly selective nanomolar level colorimetric sensing of Cr ³⁺ through biosynthesized gold nanoparticles in the presence of Cr ⁶⁺ . <i>Optik</i> , 2021, 248, 168188.	2.9	4
23	Preparation of novel arsenic-imprinted polymer for the selective extraction and enhanced adsorption of toxic As ³⁺ ions from the aqueous environment. <i>Polymer Bulletin</i> , 2020, 77, 5261-5279.	3.3	12
24	Synthesis and catalytic practicality of titania@ITO-grown nanoflakes: an excellent candidate for isopropanol conversion to acetone. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 739-749.	3.1	13
25	Ultrasonic mediated synthesis of arsenic imprinted polymer and their analytical practicality as a selective sorbent for removal of toxic As ³⁺ ion from real samples. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	4
26	Application of synthesized copper nanoparticles using aqueous extract of <i>Ziziphus mauritiana</i> L. leaves as a colorimetric sensor for the detection of Ag ⁺ . <i>Turkish Journal of Chemistry</i> , 2020, 44, 1376-1385.	1.2	9
27	Fabrication of chromium-imprinted polymer: a real magneto-selective sorbent for the removal of Cr(VI) ions in real water samples. <i>New Journal of Chemistry</i> , 2020, 44, 18668-18678.	2.8	12
28	Synthesis and catalytic practicality of CeO ₂ nanoparticle: an excellent heterogenous candidate for 4-nitrophenol reduction. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3443-3455.	3.1	15
29	Fabrication of cadmium tagged novel ion imprinted polymer for detoxification of the toxic Cd ²⁺ ion from aqueous environment. <i>Microchemical Journal</i> , 2020, 158, 105247.	4.5	30
30	Fabrication of Pt-Pd@ITO grown heterogeneous nanocatalyst as efficient remediator for toxic methyl parathion in aqueous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9970-9978.	5.3	11
31	5,7-Dihydroxy-2-(4-hydroxyphenyl)chroman-4-one Functionalized CuO Nanoparticles: Synthesis, Characterization and Antioxidant activity. <i>Pakistan Journal of Analytical and Environmental Chemistry</i> , 2020, 21, 107-114.	0.5	1
32	Synthesis and Catalytic Applicability of Pt-Pd ITO Grown Nano Catalyst: An Excellent Candidate for Reduction of Toxic Hexavalent Chromium. <i>Catalysis Letters</i> , 2019, 149, 2415-2424.	2.6	11
33	Novel chromium imprinted polymer: synthesis, characterization and analytical applicability for the selective remediation of Cr(VI) from an aqueous system. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, 99, 454-473.	3.3	18
34	Synthesis, adsorption and analytical applicability of Ni-imprinted polymer for selective adsorption of Ni ²⁺ ions from the aqueous environment. <i>Polymer Testing</i> , 2019, 77, 105871.	4.8	22
35	Synthesis of ultrasonic-assisted lead ion imprinted polymer as a selective sorbent for the removal of Pb ²⁺ in a real water sample. <i>Microchemical Journal</i> , 2019, 146, 1160-1168.	4.5	45
36	Biogenic Silver Nanoparticles for Trace Colorimetric Sensing of Enzyme Disrupter Fungicide Vinclozolin. <i>Nanomaterials</i> , 2019, 9, 1604.	4.1	21

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37	Remediation of Nickel ion from wastewater by applying various techniques: a review. Acta Chemica Malaysia, 2019, 3, 1-15.	0.6	23
38	Sensitive fluorescence detection of Ni ²⁺ ions using fluorescein functionalized Fe ₃ O ₄ nanoparticles. Journal of Materials Chemistry C, 2018, 6, 1105-1115.	5.5	44
39	Degradation of 4-Chlorophenol Under Sunlight Using ZnO Nanoparticles as Catalysts. Journal of Electronic Materials, 2018, 47, 2177-2183.	2.2	18
40	Succinic acid functionalized silver nanoparticles (Suc-Ag NPs) for colorimetric sensing of melamine. Applied Surface Science, 2018, 435, 1080-1086.	6.1	20
41	Geant4 Step towards the Durability and Smooth Response of Silicon Based Neutron Dosimeter, and Protection from Thermal Neutrons. , 2018, , .		0
42	Microwave-assisted synthesis of imprinted polymer for selective removal of arsenic from drinking water by applying Taguchi statistical method. European Polymer Journal, 2018, 109, 133-142.	5.4	46
43	Hierarchical Bimetallic AgPt Nanoferns as High-Performance Catalysts for Selective Acetone Hydrogenation to Isopropanol. ACS Omega, 2018, 3, 11526-11536.	3.5	15
44	Utilization of Pleurotus eryngii biosorbent as an environmental bioremedy for the decontamination of trace cadmium(II) ions from water system. Water Science and Technology, 2018, 78, 1148-1158.	2.5	3
45	Pyranine functionalized Fe ₃ O ₄ nanoparticles for the sensitive fluorescence detection of Cu ²⁺ ions. Journal of Alloys and Compounds, 2018, 767, 151-162.	5.5	21
46	Efficient entrapping of toxic Pb(II) ions from aqueous system on a fixed-bed column of fungal biosorbent. , 2018, 2, 39-44.		6
47	Synthesis of Magnetite Nanoparticles and Its Application As Electrode Material for the Electrochemical Oxidation of Methanol. Journal of Electronic Materials, 2018, 47, 5321-5333.	2.2	14
48	Synthesis of Molecularly Imprinted Polymer for the Selective Removal of Mercury. Eurasian Journal of Analytical Chemistry, 2018, 13, .	0.4	1
49	Suberic acid functionalized CuO NFs for enhanced electrochemical oxidation of formoterol fumarate. Sensors and Actuators B: Chemical, 2017, 246, 1030-1038.	7.8	4
50	SiO ₂ capped Fe ₃ O ₄ nanostructures as an active heterogeneous catalyst for 4-nitrophenol reduction. Microsystem Technologies, 2017, 23, 5745-5758.	2.0	43
51	Statistical methodology for biosorption of nitrate (NO ₃ ⁻) ions from aqueous solution by Pleurotus eryngii fungal biomass. Modeling Earth Systems and Environment, 2017, 3, 1101-1112.	3.4	2
52	Remediation techniques applied for aqueous system contaminated by toxic Chromium and Nickel ion. , 2017, 1, 143-153.		16
53	Eco-efficient Fungal Biomass for the Removal of Pb(II) Ions from Water System: A Sorption Process and Mechanism. International Journal of Environmental Research, 2017, 11, 315-325.	2.3	6
54	Tannic acid assisted copper oxide nanoglobules for sensitive electrochemical detection of bisphenol A. International Journal of Food Properties, 2017, 20, 1359-1367.	3.0	32

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55	Synthesis of ZnO Nanostructures, Their Characterization and Sensitive Sensing of Dopamine. <i>Sensor Letters</i> , 2017, 15, 419-423.	0.4	0
56	Biosorption of mercury(II) from aqueous solution by fungal biomass <i>Pleurotus eryngii</i> : Isotherm, kinetic, and thermodynamic studies. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1274-1282.	2.3	24
57	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. <i>Journal of Electroanalytical Chemistry</i> , 2016, 779, 156-160.	3.8	5
58	Biosorption of fluoride from aqueous solution by white-rot fungus <i>Pleurotus eryngii</i> ATCC 90888. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2015, 3, 30-37.	2.9	43
59	Efficient degradation of organic dyes by heterogeneous cefdinir derived silver nanocatalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 216-222.	5.8	18
60	Synthesis of Amorphous Platinum Nanofibers Directly on an ITO Substrate and Its Heterogeneous Catalytic Hydrogenation Characterization. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7776-7785.	8.0	23
61	Selective Heterogeneous Catalytic Hydrogenation of Ketone (C=O) to Alcohol (OH) by Magnetite Nanoparticles Following Langmuir-Hinshelwood Kinetic Approach. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6480-6489.	8.0	25
62	ZnO nanocubes with (1 0 1) basal plane photocatalyst prepared via a low-frequency ultrasonic assisted hydrolysis process. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 754-760.	8.2	46
63	Poriferous microtablet of anatase TiO ₂ growth on an ITO surface for high-efficiency dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 174-182.	6.2	40
64	A novel green synthesis and characterization of Ag NPs with its ultra-rapid catalytic reduction of methyl green dye. <i>Applied Surface Science</i> , 2014, 290, 499-503.	6.1	66
65	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17655-17665.	10.3	42
66	Ag-ZnO Nanoreactor Grown on FTO Substrate Exhibiting High Heterogeneous Photocatalytic Efficiency. <i>ACS Combinatorial Science</i> , 2014, 16, 314-320.	3.8	34
67	Efficient Heterogeneous Catalytic Hydrogenation of Acetone to Isopropanol on Semihollow and Porous Palladium Nanocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9843-9849.	8.0	55
68	Fibrous, ultra-small nanorod-constructed platinum nanocubes directly grown on the ITO substrate and their heterogeneous catalysis application. <i>RSC Advances</i> , 2013, 3, 19789.	3.6	26
69	Deposition of Au/TiO ₂ Nanocomposite on ITO Surface by Seed-Mediated Liquid Phase Deposition Method. <i>Journal of Physics: Conference Series</i> , 2013, 431, 012011.	0.4	3
70	Sorption Kinetics, Isotherm and Thermodynamic Modeling of Defluoridation of Ground Water Using Natural Adsorbents. <i>American Journal of Analytical Chemistry</i> , 2013, 04, 221-228.	0.9	44
71	Changes in fatty acid composition in muscle of three farmed carp fish species (<i>Labeo rohita</i> , <i>Cirrhinus</i>) <i>Tj ETQq1 1 0,784314 ggBT /Over</i>	8.2	44
72	Utilization of Picolinaldehyde-4-phenyl-3-thiosemicarbazone in Sodium Dodecylsulfate Micelles for the Spectrophotometric Determination of Iron, Vanadium, and Cobalt Following Partial Least-Squares Regression Analysis. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 248-256.	1.5	1

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73	Utilization of picolinaldehyde-4-phenyl-3-thiosemicarbazone in sodium dodecylsulfate micelles for the spectrophotometric determination of iron, vanadium, and cobalt following partial least-squares regression analysis. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 248-56.	1.5	1
74	Fabrication and Catalytic Efficiency of ZnO/PVP Nanocatalysts: A Tremendous Applicant for Methyl Orange Dye Degradation in Aqueous Medium. <i>Journal of Nano Research</i> , 0, 73, 121-138.	0.8	0