Aamna Balouch

List of Publications by Year
in descending order

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Version: 2024-02-01

		331670	434195
74	1,271	21	31
papers	citations	h-index	g-index

76	76	76	1420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel green synthesis and characterization of Ag NPs with its ultra-rapid catalytic reduction of methyl green dye. Applied Surface Science, 2014, 290, 499-503.	6.1	66
2	Efficient Heterogeneous Catalytic Hydrogenation of Acetone to Isopropanol on Semihollow and Porous Palladium Nanocatalyst. ACS Applied Materials & Interfaces, 2013, 5, 9843-9849.	8.0	55
3	ZnO nanocubes with (1 0 1) basal plane photocatalyst prepared via a low-frequency ultrasonic assisted hydrolysis process. Ultrasonics Sonochemistry, 2014, 21, 754-760.	8.2	46
4	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
5	Synthesis of ultrasonic-assisted lead ion imprinted polymer as a selective sorbent for the removal of Pb2+ in a real water sample. Microchemical Journal, 2019, 146, 1160-1168.	4.5	45
6	Changes in fatty acid composition in muscle of three farmed carp fish species (Labeo rohita, Cirrhinus) Tj ETQq0 0 0 rgBT /Overlock 10 T	8.2	44
7	Sensitive fluorescence detection of Ni²⁺ions using fluorescein functionalized Fe₃O₄nanoparticles. Journal of Materials Chemistry C, 2018, 6, 1105-1115.	5.5	44
8	Sorption Kinetics, Isotherm and Thermodynamic Modeling of Defluoridation of Ground Water Using Natural Adsorbents. American Journal of Analytical Chemistry, 2013, 04, 221-228.	0.9	44
9	Biosorption of fluoride from aqueous solution by whiteâ€"rot fungus Pleurotus eryngii ATCC 90888. Environmental Nanotechnology, Monitoring and Management, 2015, 3, 30-37.	2.9	43
10	SiO2 caped Fe3O4 nanostructures as an active heterogeneous catalyst for 4-nitrophenol reduction. Microsystem Technologies, 2017, 23, 5745-5758.	2.0	43
11	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. Journal of Materials Chemistry A, 2014, 2, 17655-17665.	10.3	42
12	Poriferous microtablet of anatase TiO2 growth on an ITO surface for high-efficiency dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2014, 122, 174-182.	6.2	40
13	Agâ€"ZnO Nanoreactor Grown on FTO Substrate Exhibiting High Heterogeneous Photocatalytic Efficiency. ACS Combinatorial Science, 2014, 16, 314-320.	3.8	34
14	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
15	Fabrication of cadmium tagged novel ion imprinted polymer for detoxification of the toxic Cd2+ion from aqueous environment. Microchemical Journal, 2020, 158, 105247.	4.5	30
16	Fibrous, ultra-small nanorod-constructed platinum nanocubes directly grown on the ITO substrate and their heterogeneous catalysis application. RSC Advances, 2013, 3, 19789.	3.6	26
17	Green synthesis of MgO nanocatalyst by using <scp>Ziziphus mauritiana</scp> leaves and seeds for biodiesel production. Applied Organometallic Chemistry, 2021, 35, e6199.	3.5	26
18	Selective Heterogeneous Catalytic Hydrogenation of Ketone (Câ•O) to Alcohol (OH) by Magnetite Nanoparticles Following Langmuirâ€"Hinshelwood Kinetic Approach. ACS Applied Materials & Interfaces, 2015, 7, 6480-6489.	8.0	25

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19	Biosorption of mercury(II) from aqueous solution by fungal biomass Pleurotus eryngii: Isotherm, kinetic, and thermodynamic studies. Environmental Progress and Sustainable Energy, 2016, 35, 1274-1282.	2.3	24
20	Synthesis of Amorphous Platinum Nanofibers Directly on an ITO Substrate and Its Heterogeneous Catalytic Hydrogenation Characterization. ACS Applied Materials & Interfaces, 2015, 7, 7776-7785.	8.0	23
21	Efficient mitigation of cadmium and lead toxicity in coriander plant utilizing magnetite (Fe₃O₄) nanofertilizer as growth regulator and antimicrobial agent. International Journal of Environmental Analytical Chemistry, 2022, 102, 3868-3879.	3.3	23
22	Remediation of Nickel ion from wastewater by applying various techniques: a review. Acta Chemica Malaysia, 2019, 3, 1-15.	0.6	23
23	Synthesis, adsorption and analytical applicability of Ni-imprinted polymer for selective adsorption of Ni2+ ions from the aqueous environment. Polymer Testing, 2019, 77, 105871.	4.8	22
24	Pyranine functionalized Fe3O4 nanoparticles for the sensitive fluorescence detection of Cu2+ ions. Journal of Alloys and Compounds, 2018, 767, 151-162.	5.5	21
25	Biogenic Silver Nanoparticles for Trace Colorimetric Sensing of Enzyme Disrupter Fungicide Vinclozolin. Nanomaterials, 2019, 9, 1604.	4.1	21
26	Succinic acid functionalized silver nanoparticles (Suc-Ag NPs) for colorimetric sensing of melamine. Applied Surface Science, 2018, 435, 1080-1086.	6.1	20
27	Efficient degradation of organic dyes by heterogeneous cefdinir derived silver nanocatalyst. Journal of Industrial and Engineering Chemistry, 2015, 31, 216-222.	5.8	18
28	Degradation of 4-Chlorophenol Under Sunlight Using ZnO Nanoparticles as Catalysts. Journal of Electronic Materials, 2018, 47, 2177-2183.	2.2	18
29	Novel chromium imprinted polymer: synthesis, characterization and analytical applicability for the selective remediation of Cr(VI) from an aqueous system. International Journal of Environmental Analytical Chemistry, 2019, 99, 454-473.	3.3	18
30	Remediation techniques applied for aqueous system contaminated by toxic Chromium and Nickel ion. , 2017, 1, 143-153.		16
31	Hierarchical Bimetallic AgPt Nanoferns as High-Performance Catalysts for Selective Acetone Hydrogenation to Isopropanol. ACS Omega, 2018, 3, 11526-11536.	3.5	15
32	Synthesis and catalytic practicality of CeO2 nanoparticle: an excellent heterogenous candidate for 4-nitrophenol reduction. Applied Nanoscience (Switzerland), 2020, 10, 3443-3455.	3.1	15
33	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
34	Synthesis and catalytic practicality of titania@ITO-grown nanoflakes: an excellent candidate for isopropanol conversion to acetone. Applied Nanoscience (Switzerland), 2020, 10, 739-749.	3.1	13
35	Evaluation of the performance of a selective magnetite molecularly imprinted polymer for extraction of quercetin from onion samples. Microchemical Journal, 2021, 162, 105849.	4.5	13
36	Preparation of novel arsenic-imprinted polymer for the selective extraction and enhanced adsorption ofÂtoxic As3+ ions from the aqueous environment. Polymer Bulletin, 2020, 77, 5261-5279.	3.3	12

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37	Fabrication of chromium-imprinted polymer: a real magneto-selective sorbent for the removal of Cr(<scp>vi</scp>) ions in real water samples. New Journal of Chemistry, 2020, 44, 18668-18678.	2.8	12
38	Remediation of toxic fluoride from aqueous media by various techniques. International Journal of Environmental Analytical Chemistry, 2021, 101, 482-505.	3.3	12
39	Synthesis and Catalytic Applicability of Ptâ€“Pd ITO Grown Nano Catalyst: An Excellent Candidate for Reduction of Toxic Hexavalent Chromium. Catalysis Letters, 2019, 149, 2415-2424.	2.6	11
40	Fabrication of Pt-Pd@ITO grown heterogeneous nanocatalyst as efficient remediator for toxic methyl parathion in aqueous media. Environmental Science and Pollution Research, 2020, 27, 9970-9978.	5.3	11
41	Fabrication of TiO2@ITO-grown nanocatalyst as efficient applicant for catalytic reduction of Eosin Y from aqueous media. Environmental Science and Pollution Research, 2021, 28, 947-959.	5.3	11
42	A Practical Non-Enzymatic, Ultra-Sensitive Molybdenum Oxide (MoO₃) Electrochemical Nanosensor for Hydroquinone. Journal of the Electrochemical Society, 2021, 168, 056503.	2.9	11
43	Importance and Analytical Perspective of Green Synthetic Strategies of Copper, Zinc, and Titanium Oxide Nanoparticles and their Applications in Pathogens and Environmental Remediation. Current Analytical Chemistry, 2021, 17, 1169-1181.	1.2	11
44	Effective and viable photocatalytic degradation of rhodamine B dye in aqueous media using CuO/PVA nanocomposites. New Journal of Chemistry, 2021, 45, 16500-16510.	2.8	11
45	Application of synthesized copper nanoparticles using aqueous extract of Ziziphus mauritiana L. leaves as a colorimetric sensor for the detection of Ag+. Turkish Journal of Chemistry, 2020, 44, 1376-1385.	1.2	9
46	Selective and sensitive detoxification of toxic lead ions from drinking water using lead (II) ion-imprinted interpenetrating polymer linkage. Polymer Bulletin, 2022, 79, 1887-1909.	3.3	9
47	Electrochemical sensing of dopamine via bio-assisted synthesized silver nanoparticles. International Nano Letters, 2021, 11, 263-271.	5.0	9
48	Ultrasensitive colorimetric detection of Hg²⁺ in aqueous media via green synthesis by Ziziphus mauritiana Leaf extract-based silver nanoparticles. International Journal of Environmental Analytical Chemistry, 2022, 102, 7046-7061.	3.3	8
49	Synthesis of zinc oxide nanoparticles and their functionalisation with chrysin: exploration of its applications. International Journal of Environmental Analytical Chemistry, 2022, 102, 1662-1671.	3.3	7
50	Fabrication of nickel-tagged magnetic imprinted polymeric network for the selective extraction of Ni(II) from the real aqueous samples. Environmental Science and Pollution Research, 2021, 28, 40022-40034.	5.3	7
51	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
52	Efficient entrapping of toxic Pb(II) ions from aqueous system on a fixed-bed column of fungal biosorbent. , 2018, 2, 39-44.		6
53	Highly efficient and selective heterogeneous catalytic reduction of 2-nitroaniline by cerium oxide nanocatalyst under microwave irradiation. Environmental Technology (United Kingdom), 2022, 43, 3631-3645.	2.2	6
54	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. Journal of Electroanalytical Chemistry, 2016, 779, 156-160.	3.8	5

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55	Fabrication of Cobalt tagged smart ion-imprinted polymeric material applied for the elimination of Co2+ ions from real environmental samples. Polymer Bulletin, 2022, 79, 10135-10153.	3.3	5
56	Eco-Friendly Conversion of p-Nitrophenol into p-Aminophenol Using Calix[4]arene Derived CuO Nanoparticles: An Excellent Catalytic Agent. Polycyclic Aromatic Compounds, 2023, 43, 4843-4855.	2.6	5
57	Suberic acid functionalized CuO NFs for enhanced electrochemical oxidation of formoterol fumarate. Sensors and Actuators B: Chemical, 2017, 246, 1030-1038.	7.8	4
58	Effective photocatalytic methylene orange dye degradation ability in coloured textile contaminated water by highly efficient catalyst Schiff-based resin-encapsulated supported on TiO₂@SiO₂ metal oxide nanoparticles. International Journal of Environmental Analytical Chemistry, 2022, 102, 3561-3575.	3.3	4
59	Ultrasonic mediated synthesis of arsenic imprinted polymer and their analytical practicality as a selective sorbent for removal of toxic As3+ ion from real samples. Journal of Polymer Research, 2020, 27, 1.	2.4	4
60	Voltammetric detection of caffeine content in different tea stuffs by using Co3O4/GCE-Nafion electrode. Journal of the Iranian Chemical Society, 2021, 18, 701-708.	2.2	4
61	Highly selective nanomolar level colorimetric sensing of Cr3+ through biosynthesized gold nanoparticles in the presence of Cr6+. Optik, 2021, 248, 168188.	2.9	4
62	Deposition of Au/TiO2 Nanocomposite on ITO Surface by Seed-Mediated Liquid Phase Deposition Method. Journal of Physics: Conference Series, 2013, 431, 012011.	0.4	3
63	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
64	Preparation of MgO@SiO2 encapsulated polymethylene bis (pyrrole-2-carboxaldehyde)o-phenylenediimine: applied as efficient adsorbent for Cu (II) ions from aqueous system. International Journal of Environmental Analytical Chemistry, 2022, 102, 159-173.	3.3	3
65	Statistical methodology for biosorption of nitrate (NO3 â^') ions from aqueous solution by Pleurotus eryngii fungal biomass. Modeling Earth Systems and Environment, 2017, 3, 1101-1112.	3.4	2
66	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. Turkish Journal of Chemistry, 2021, 45, 181-191.	1.2	2
67	Fabrication of Fe/Bi bimetallic magnetic nano-oxides (IBBMNOs) as efficient remediator for hexavalent chromium from aqueous environment. Environmental Science and Pollution Research, 2022, 29, 65161-65175.	5.3	2
68	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. Journal of AOAC INTERNATIONAL, 2009, 92, 248-256.	1.5	1
69	Synthesis of Molecularly Imprinted Polymer for the Selective Removal of Mercury. Eurasian Journal of Analytical Chemistry, 2018, 13, .	0.4	1
70	5,7-Dihydroxy-2-(4-hydroxyphenyl)chroman-4-one Functionalized CuO Nanoparticles: Synthesis, Characterization and Antioxidant activity. Pakistan Journal of Analytical and Environmental Chemistry, 2020, 21, 107-114.	0.5	1
71	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. Journal of AOAC INTERNATIONAL, 2009, 92, 248-56.	1.5	1
72	Geant4 Step towards the Durability and Smooth Response of Silicon Based Neutron Dosimeter, and Protection from Thermal Neutrons. , 2018, , .		0

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73	Synthesis of ZnO Nanostructures, Their Characterization and Sensitive Sensing of Dopamine. Sensor Letters, 2017, 15, 419-423.	0.4	0
74	Fabrication and Catalytic Efficiency of ZnO/PVP Nanocatalysts: A Tremendous Applicant for Methyl Orange Dye Degradation in Aqueous Medium. Journal of Nano Research, 0, 73, 121-138.	0.8	0