

Esraa M Bakhsh

List of Publications by Year in descending order

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72
papers

1,507
citations

331538

21
h-index

345118

36
g-index

72
all docs

72
docs citations

72
times ranked

956
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and radiation shielding properties of tellurite glasses doped with ZnO and NiO. <i>Ceramics International</i> , 2020, 46, 19078-19083.	2.3	139
2	Synthesis and characterization of metal nanoparticles templated chitosan-SiO ₂ catalyst for the reduction of nitrophenols and dyes. <i>Carbohydrate Polymers</i> , 2018, 192, 217-230.	5.1	95
3	Anti-bacterial PES-cellulose composite spheres: dual character toward extraction and catalytic reduction of nitrophenol. <i>RSC Advances</i> , 2016, 6, 110077-110090.	1.7	80
4	Versatility of Hydrogels: From Synthetic Strategies, Classification, and Properties to Biomedical Applications. <i>Gels</i> , 2022, 8, 167.	2.1	75
5	Electrochemical detection and catalytic removal of 4-nitrophenol using CeO ₂ -Cu ₂ O and CeO ₂ -Cu ₂ O/CH nanocomposites. <i>Applied Surface Science</i> , 2019, 492, 726-735.	3.1	68
6	Performance of cellulose acetate-ferric oxide nanocomposite supported metal catalysts toward the reduction of environmental pollutants. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 668-677.	3.6	53
7	Adsorption efficiency of date palm based activated carbon-alginate membrane for methylene blue. <i>Chemosphere</i> , 2022, 302, 134793.	4.2	51
8	Copper nanoparticles embedded chitosan for efficient detection and reduction of nitroaniline. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 666-675.	3.6	49
9	Metal nanoparticles decorated sodium alginate-carbon nitride composite beads as effective catalyst for the reduction of organic pollutants. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1087-1098.	3.6	49
10	Potential application of Allium Cepa seeds as a novel biosorbent for efficient biosorption of heavy metals ions from aqueous solution. <i>Chemosphere</i> , 2021, 279, 130545.	4.2	46
11	Cellulose acetate-Ce/Zr@CuO catalyst for the degradation of organic pollutant. <i>International Journal of Biological Macromolecules</i> , 2020, 153, 806-816.	3.6	45
12	Chitosan coated NiAl layered double hydroxide microsphere templated zero-valent metal NPs for environmental remediation. <i>Journal of Cleaner Production</i> , 2021, 285, 124830.	4.6	44
13	Carboxymethyl cellulose nanocomposite beads as super-efficient catalyst for the reduction of organic and inorganic pollutants. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 101-116.	3.6	41
14	Efficient electrochemical detection and extraction of copper ions using ZnSe@CdSe/SiO ₂ core-shell nanomaterial. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 118-127.	2.9	36
15	Lignocellulosic biomass supported metal nanoparticles for the catalytic reduction of organic pollutants. <i>Environmental Science and Pollution Research</i> , 2020, 27, 823-836.	2.7	36
16	Polymer supported metallic nanoparticles as a solid catalyst for the removal of organic pollutants. <i>Cellulose</i> , 2020, 27, 5907-5921.	2.4	36
17	Exploration of calcium doped zinc oxide nanoparticles as selective adsorbent for extraction of lead ion. <i>Desalination and Water Treatment</i> , 2016, 57, 19311-19320.	1.0	29
18	A template of cellulose acetate polymer-ZnAl/C layered double hydroxide composite fabricated with Ni NPs: Applications in the hydrogenation of nitrophenols and dyes degradation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 241, 118671.	2.0	27

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19	Photo-degradation, thermodynamic and kinetic study of carcinogenic dyes via zinc oxide/graphene oxide nanocomposites. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3171-3191.	2.6	24
20	Effect of short time ball milling on physicochemical and adsorption performance of activated carbon prepared from mangosteen peel waste. <i>Renewable Energy</i> , 2021, 168, 723-733.	4.3	23
21	Development of alginate@tin oxide-cobalt oxide nanocomposite based catalyst for the treatment of wastewater. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 386-398.	3.6	22
22	Sodium alginate nanocomposite based efficient system for the removal of organic and inorganic pollutants from wastewater. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 243-254.	3.6	22
23	Selective adsorption of 4-chlorophenol based on silica-ionic liquid composite developed by sol-gel process. <i>Chemical Engineering Journal</i> , 2017, 326, 794-802.	6.6	21
24	Cerium oxide-cadmium oxide nanomaterial as efficient extractant for yttrium ions. <i>Journal of Molecular Liquids</i> , 2018, 269, 252-259.	2.3	21
25	Design of chitosan nanocomposite hydrogel for sensitive detection and removal of organic pollutants. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 276-286.	3.6	19
26	Emerging Fabrication Strategies of Hydrogels and Its Applications. <i>Gels</i> , 2022, 8, 205.	2.1	19
27	Biomass impregnated zero-valent Ag and Cu supported-catalyst: Evaluation in the reduction of nitrophenol and discoloration of dyes in aqueous medium. <i>Journal of Organometallic Chemistry</i> , 2021, 938, 121756.	0.8	18
28	Design of simple and efficient metal nanoparticles templated on ZnO-chitosan coated textile cotton towards the catalytic reduction of organic pollutants. <i>Journal of Industrial Textiles</i> , 2022, 51, 1703S-1728S.	1.1	17
29	Zn/Fe nanocomposite based efficient electrochemical sensor for the simultaneous detection of metal ions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 130, 114671.	1.3	17
30	Highly efficient and recoverable Ag-Cu bimetallic catalyst supported on taro-rhizome powder applied for nitroarenes and dyes reduction. <i>Journal of Materials Research and Technology</i> , 2022, 18, 769-787.	2.6	16
31	Iron doped nanocomposites based efficient catalyst for hydrogen production and reduction of organic pollutant. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125502.	2.3	13
32	Synthesis of Activated Carbon from <i>Trachycarpus fortunei</i> Seeds for the Removal of Cationic and Anionic Dyes. <i>Materials</i> , 2022, 15, 1986.	1.3	13
33	Silica Gel Supported Hydrophobic Ionic Liquid for Selective Extraction and Determination of Coumarin. <i>American Journal of Analytical Chemistry</i> , 2013, 04, 8-16.	0.3	12
34	Adsorptive removal of lanthanum based on hydrothermally synthesized iron oxide-titanium oxide nanoparticles. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5408-5417.	2.7	12
35	Metal nanoparticles supported chitosan coated carboxymethyl cellulose beads as a catalyst for the selective removal of 4-nitrophenol. <i>Chemosphere</i> , 2022, 291, 133010.	4.2	12
36	Photocatalytic degradation of the antibiotic ciprofloxacin in the aqueous solution using Mn/Co oxide photocatalyst. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4255-4267.	1.1	12

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37	Poly(propylene carbonate)/exfoliated graphite nanocomposites: Selective adsorbent for the extraction and detection of gold(III). <i>Bulletin of Materials Science</i> , 2015, 38, 327-333.	0.8	11
38	Super adsorption performance of carboxymethyl cellulose/copper oxide-nickel oxide nanocomposite toward the removal of organic and inorganic pollutants. <i>Environmental Science and Pollution Research</i> , 2021, 28, 38476-38496.	2.7	11
39	Reduction of nitrophenol isomers and degradation of azo dyes through zero-valent Ni nanoparticles anchored on cellulose acetate coated Ce/Zr composite. <i>Journal of Water Process Engineering</i> , 2021, 44, 102383.	2.6	11
40	Enhanced catalytic reduction/degradation of organic pollutants and antimicrobial activity with metallic nanoparticles immobilized on copolymer modified with NaY zeolite films. <i>Journal of Molecular Liquids</i> , 2022, 359, 119246.	2.3	11
41	Chitosan hydrogel wrapped bimetallic nanoparticles based efficient catalysts for the catalytic removal of organic pollutants and hydrogen production. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	1.7	11
42	Cellulose acetate-iron oxide nanocomposites for trace detection of fluorene from water samples by solid-phase extraction technique. <i>Separation Science and Technology</i> , 2018, 53, 887-895.	1.3	10
43	Design of efficient solar photocatalytic system for hydrogen production and degradation of environmental pollutant. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2497-2512.	2.6	10
44	Kinetics and thermodynamic study of <i>Calligonum polygonoides</i> pyrolysis using model-free methods. <i>Chemical Engineering Research and Design</i> , 2022, 160, 130-138.	2.7	10
45	Synthesis of zero-valent Au nanoparticles on chitosan coated NiAl layered double hydroxide microspheres for the discoloration of dyes in aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 250, 119370.	2.0	8
46	Copper Oxide-Antimony Oxide Entrapped Alginate Hydrogel as Efficient Catalyst for Selective Reduction of 2-Nitrophenol. <i>Polymers</i> , 2022, 14, 458.	2.0	8
47	Removal of hexavalent chromium from aqueous solutions using Ni@SiO ₂ nanomaterials. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	7
48	Alginate biopolymer as a reactor container for copper oxide-tin oxide: Efficient nanocatalyst for reduction of different pollutants. <i>Chemosphere</i> , 2022, 291, 132811.	4.2	7
49	Alginate/Banana Waste Beads Supported Metal Nanoparticles for Efficient Water Remediation. <i>Polymers</i> , 2021, 13, 4054.	2.0	7
50	Photocatalytic degradation of organic dyes by U ₃ MnO ₁₀ nanoparticles under UV and sunlight. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109075.	1.8	7
51	Bimetallic cobalt-iron diselenide nanorod modified glassy carbon electrode: an electrochemical sensing platform for the selective detection of isoniazid. <i>RSC Advances</i> , 2021, 11, 12649-12657.	1.7	6
52	Chitosan@Carboxymethylcellulose/CuO-Co ₂ O ₃ Nanoadsorbent as a Super Catalyst for the Removal of Water Pollutants. <i>Gels</i> , 2022, 8, 91.	2.1	6
53	Nickel oxide and carboxymethyl cellulose composite beads as catalyst for the pollutant degradation. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3585-3595.	1.6	6
54	Phenolic water toxins: redox mechanism and method of their detection in water and wastewater. <i>RSC Advances</i> , 2021, 11, 35783-35795.	1.7	5

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55	Efficient fabrication, antibacterial and catalytic performance of Ag-NiO loaded bacterial cellulose paper. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 917-926.	3.6	5
56	Metallic nanoparticles decorated chitosan hydrogel wrapped pencil graphite: Effective catalyst for reduction of water pollutants and hydrogen production. <i>Surfaces and Interfaces</i> , 2022, 31, 102004.	1.5	5
57	Development of PU-ZnO solid-phase extractor for selective detection of mercury in complex matrices. <i>Polymer Composites</i> , 2017, 38, 2106-2112.	2.3	4
58	Modification of cellulose filter paper with bimetal nanoparticles for catalytic reduction of nitroaromatics in water. <i>Cellulose</i> , 2021, 28, 11067.	2.4	4
59	Structural, optical and photocatalytic properties of silver-doped magnesia: computational and experimental study. <i>Journal of Molecular Liquids</i> , 2021, 339, 117176.	2.3	4
60	Preparation, Characterization, and Biological Features of Cactus Coated Bacterial Cellulose Hydrogels. <i>Gels</i> , 2022, 8, 88.	2.1	3
61	Effect of Humidity and Temperature on the Impedances and Voltage of Al/Gr-Jelly/Cu-Rubber Composite-Based Flexible Electrochemical Sensors. <i>Gels</i> , 2022, 8, 73.	2.1	3
62	Ni-Al-layered double-hydroxide photocatalyst for the visible light-assisted photodegradation of organic dye pollutants. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3597-3606.	1.6	3
63	<i>Nigella sativa</i> L. seeds extract assisted synthesis of silver nanoparticles and their antibacterial and catalytic performance. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3185-3196.	1.6	2
64	Nanostructured Materials and their Potential as Electrochemical Sensors. <i>Current Nanoscience</i> , 2020, 16, 534-543.	0.7	2
65	Polyethersulphone coated Ag-SiO ₂ nanoparticles: a multifunctional and ultrafiltration membrane with improved performance. , 0, 239, 217-227.		2
66	Clove oil-mediated green synthesis of silver-doped cadmium sulfide and their photocatalytic degradation activity. <i>Inorganic Chemistry Communication</i> , 2022, 138, 109256.	1.8	2
67	Nanoarchitected Cu based catalysts supported on alginate/glycyl leucine hybrid beads for tainted water treatment. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 56-69.	3.6	2
68	Assessment of cellulose acetate/manganese oxide thin film as adsorbent for selective extraction of flavone. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	1
69	Ultraviolet and Infrared Irradiations Sensing of Gel-Orange Dye Composite-Based Flexible Electrochemical Cells. <i>Gels</i> , 2022, 8, 83.	2.1	1
70	Natural Crude Dye from Cucurbita Pepo Leaves for Dying, Antimicrobial, and Antioxidant Activities. <i>Letters in Organic Chemistry</i> , 2021, 18, 969-976.	0.2	0
71	Selective adsorption of iron(III) ions based on nickel(II) oxide-copper(II) oxide nanoparticles. <i>Current Analytical Chemistry</i> , 2022, 18, .	0.6	0
72	High effective catalyst based on Ni doped TiO ₂ coated natural cotton fibers for catalytic reduction of organic pollutants. <i>Journal of Natural Fibers</i> , 0, , 1-14.	1.7	0