

Hamedreza Javadian

List of Publications by Year in descending order

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66
papers

2,747
citations

159525

30
h-index

189801

50
g-index

66
all docs

66
docs citations

66
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental design for the optimization of paraquat removal from aqueous media using a fixed-bed column packed with Pinus Eldarica stalks activated carbon. <i>Chemosphere</i> , 2022, 291, 132670.	4.2	12
2	Synthesis of resorcinol-functionalized multi-walled carbon nanotubes as a nanoadsorbent for the solid-phase extraction and determination of diclofenac in human plasma and aqueous samples. <i>Colloids and Interface Science Communications</i> , 2022, 46, 100555.	2.0	9
3	Synthesis of poly(dopamine quinone-chromium(III) complex) @hierarchical cabbage flower-like cobalt as a novel mesoporous nanocomposite modifier of graphite paste electrode for electrochemical determination of quercetin in biological samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 643, 128739.	2.3	7
4	Nano-sized FeO@SiO ₂ -molecular imprinted polymer as a sorbent for dispersive solid-phase microextraction of melatonin in the methanolic extract of , biological, and water samples. <i>Talanta</i> , 2021, 221, 121620.	2.9	67
5	Photoelectro-Fenton/photocatalytic process for decolorization of an organic compound by Ag:Cd-1,4-BDOAH ₂ nano-photocatalyst: Response surface modeling and central composite design optimization. <i>Journal of Molecular Liquids</i> , 2021, 335, 113689.	2.3	10
6	Ultrasound-assisted solid phase microextraction-HPLC method based on Fe ₃ O ₄ @SiO ₂ -NH ₂ -molecularly imprinted polymer magnetic nano-sorbent for rapid and efficient extraction of harmaline from Peganum harmala extract. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1171, 122640.	1.2	26
7	Decorating graphene oxide with zeolitic imidazolate framework (ZIF-8) and pseudo-boehmite offers ultra-high adsorption capacity of diclofenac in hospital effluents. <i>Chemosphere</i> , 2021, 271, 129610.	4.2	105
8	Encapsulation of rose essential oil using whey protein concentrate-pectin nanocomplexes: Optimization of the effective parameters. <i>Food Chemistry</i> , 2021, 356, 129731.	4.2	22
9	Treatment of nano-oil polluted wastewater in an expanded bed adsorption column based on carboxymethyl cellulose-cellulose-nickel composite beads. <i>Journal of Hazardous Materials</i> , 2021, 417, 126038.	6.5	8
10	Synthesis of magnetic tungsten disulfide/carbon nanotubes nanocomposite (WS ₂ /Fe ₃ O ₄ /CNTs-NC) for highly efficient ultrasound-assisted rapid removal of amaranth and brilliant blue FCF hazardous dyes. <i>Journal of Hazardous Materials</i> , 2021, 420, 126644.	6.5	57
11	Highly effective pre-concentration of thymol and carvacrol using nano-sized magnetic molecularly imprinted polymer based on experimental design optimization and their trace determination in summer savoury, Origanum majorana and Origanum vulgare extracts. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1182, 122941.	1.2	9
12	Green and selective synthesis of sulfonated poly(pyrimidine-amides) in ionic liquid and their nanocomposites based on carboxylated MWCNTs: Investigation on photophysical, solubility, thermal, and removal of ions behaviors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 631, 127759.	2.3	1
13	Highly sensitive biosensor for detection of DNA nucleobases: Enhanced electrochemical sensing based on polyaniline/single-layer MoS ₂ nanosheets nanocomposite modified carbon paste electrode. <i>Microchemical Journal</i> , 2020, 152, 104315.	2.3	27
14	Rapid ultrasound-assisted microextraction of atorvastatin in the sample of blood plasma by nickel metal organic modified with alumina nanoparticles. <i>Journal of Separation Science</i> , 2020, 43, 4469-4479.	1.3	5
15	Fast improved polyol method for synthesis of Pd/C catalyst with high performance toward ethanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27312-27319.	3.8	22
16	A new approach for microextraction of trace albendazole sulfoxide drug from the samples of human plasma and urine, and water by the molecularly imprinted polymer nanoparticles combined with HPLC. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1158, 122249.	1.2	3
17	Biocompatible chitosan-zinc oxide nanocomposite based dispersive micro-solid phase extraction coupled with HPLC-UV for the determination of rosmarinic acid in the extracts of medical plants and water sample. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 528-537.	3.6	26
18	Novel magnetic nanocomposite of calcium alginate carrying poly(pyrimidine-thiophene-amide) as a novel green synthesized polyamide for adsorption study of neodymium, terbium, and dysprosium rare-earth ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125252.	2.3	28

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19	Modeling and optimization of ultrasound-assisted high performance adsorption of Basic Fuchsin by starch-capped zinc selenide nanoparticles/AC as a novel composite using response surface methodology. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 913-921.	3.6	47
20	Ca-alginate/carboxymethyl chitosan/Ni _{0.2} Zn _{0.2} Fe _{2.6} O ₄ magnetic bionanocomposite: Synthesis, characterization and application for single adsorption of Nd ³⁺ , Tb ³⁺ , and Dy ³⁺ rare earth elements from aqueous media. <i>Journal of Molecular Liquids</i> , 2020, 306, 112760.	2.3	55
21	Response surface methodology based on central composite design for simultaneous adsorption of rare earth elements using nanoporous calcium alginate/carboxymethyl chitosan microbiocomposite powder containing Ni _{0.2} Zn _{0.2} Fe _{2.6} O ₄ magnetic nanoparticles: Batch and column studies. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 937-953.	3.6	22
22	Synthesis of magnetic CMC bionanocomposite containing a novel biodegradable nanoporous polyamide selectively synthesized in ionic liquid as green media: Investigation on Nd ³⁺ , Tb ³⁺ , and Dy ³⁺ rare earth elements adsorption. <i>Journal of Molecular Liquids</i> , 2020, 308, 113017.	2.3	26
23	RSM-CCD design of malachite green adsorption onto activated carbon with multimodal pore size distribution prepared from <i>Amygdalus scoparia</i> : Kinetic and isotherm studies. <i>Polyhedron</i> , 2019, 171, 464-472.	1.0	106
24	Porous adsorbents derived from coal fly ash as cost-effective and environmentally-friendly sources of aluminosilicate for sequestration of aqueous and gaseous pollutants: A review. <i>Journal of Cleaner Production</i> , 2019, 208, 1131-1147.	4.6	92
25	Nanopowder synthesis of novel Sn(II)-imprinted poly(dimethyl vinylphosphonate) by ultrasound-assisted technique: Adsorption and pre-concentration of Sn(II) from aqueous media and real samples. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 129-136.	3.8	14
26	Synthesis of Fe ₃ O ₄ @CuS@Ni ₂ P-CNTs magnetic nanocomposite for sonochemical-assisted sorption and pre-concentration of trace Allura Red from aqueous samples prior to HPLC-UV detection: CCD-RSM design. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 240-250.	3.8	76
27	Synthesis of poly(acrylamide-co-itaconic acid)/MWCNTs superabsorbent hydrogel nanocomposite by ultrasound-assisted technique: Swelling behavior and Pb (II) adsorption capacity. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 1-12.	3.8	66
28	Ultrasound-accelerated synthesis of gold nanoparticles modified choline chloride functionalized graphene oxide as a novel sensitive bioelectrochemical sensor: Optimized meloxicam detection using CCD-RSM design and application for human plasma sample. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 776-786.	3.8	47
29	Porous catalysts fabricated from coal fly ash as cost-effective alternatives for industrial applications: A review. <i>Fuel</i> , 2018, 217, 320-342.	3.4	108
30	Synthesis of CuS and ZnO/Zn(OH) ₂ nanoparticles and their evaluation for in vitro antibacterial and antifungal activities. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4398.	1.7	15
31	Cu- and S- @SnO ₂ nanoparticles loaded on activated carbon for efficient ultrasound assisted dispersive μ SPE-spectrophotometric detection of quercetin in <i>Nasturtium officinale</i> extract and fruit juice samples: CCD-RSM design. <i>Ultrasonics Sonochemistry</i> , 2018, 47, 1-9.	3.8	73
32	Synthesis of CuS nanoparticles loaded on activated carbon composite for ultrasound-assisted adsorption removal of dye pollutants: Process optimization using CCD-RSM, equilibrium and kinetic studies. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4350.	1.7	14
33	Fuzzy logic modeling of Pb (II) sorption onto mesoporous NiO/ZnCl ₂ -Rosa Canina-L seeds activated carbon nanocomposite prepared by ultrasound-assisted co-precipitation technique. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 748-762.	3.8	41
34	A facile and selective approach for enrichment of l-cysteine in human plasma sample based on zinc organic polymer: Optimization by response surface methodology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 166-171.	1.4	9
35	Ultrasound-assisted extraction of antimicrobial compounds from <i>Thymus daenensis</i> and <i>Silybum marianum</i> : Antimicrobial activity with and without the presence of natural silver nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 76-83.	3.8	28
36	Podophyllotoxin extraction from <i>Linum usitatissimum</i> plant and its anticancer activity against HT-29, A549 and MDA-MB-231 cell lines with and without the presence of gold nanoparticles. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4024.	1.7	11

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37	Polyvinyl alcohol/Fe ₃ O ₄ @carbon nanotubes nanocomposite: Electrochemical-assisted synthesis, physicochemical characterization, optical properties, cytotoxicity effects and ultrasound-assisted treatment of aqueous based organic compound. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 349-362.	2.9	46
38	Visible-light-driven photocatalytic degradation of fenpyroximate in rotating packed bed reactor using Fe ₃ O ₄ @PbS@Ni ₂ P magnetic nanocomposite photocatalyst: Response surface modelling and optimization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4513.	1.7	13
39	Using fuzzy inference system to predict Pb (II) removal from aqueous solutions by magnetic Fe ₃ O ₄ /H ₂ SO ₄ -activated Myrtus Communis leaves carbon nanocomposite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 186-199.	2.7	27
40	Cytotoxic effect of methanolic extract, alkaloid and terpenoid fractions of <i>Stachys pilifera</i> against HT-29 cell line. <i>Research in Pharmaceutical Sciences</i> , 2018, 13, 404.	0.6	28
41	Synthesis of hydrous iron oxide/aluminum hydroxide composite loaded on coal fly ash as an effective mesoporous and low-cost sorbent for Cr(VI) sorption: Fuzzy logic modeling. <i>Chemical Engineering Research and Design</i> , 2017, 107, 153-167.	2.7	32
42	Fixed-bed column performances of azure-II and auramine-O adsorption by <i>Pinus eldarica</i> stalks activated carbon and its composite with zn nanoparticles: Optimization by response surface methodology based on central composite design. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 172-189.	5.0	53
43	Nanospace engineering and functionalization of MCM-48 mesoporous silica with dendrimer amines based on [1,3,5]-triazines for selective and pH-independent sorption of silver ions from aqueous solution and electroplating industry wastewater. <i>Powder Technology</i> , 2017, 321, 44-54.	2.1	21
44	Application of functionalized nano HMS type mesoporous silica with N-(2-aminoethyl)-3-aminopropyl methylmethoxysilane as a suitable adsorbent for removal of Pb (II) from aqueous media and industrial wastewater. <i>Journal of Saudi Chemical Society</i> , 2017, 21, S219-S230.	2.4	32
45	Pre-concentration of trace amount of bisphenol A in water samples by palm leaf ash and determination with high-performance liquid chromatography. <i>Biomedical Chromatography</i> , 2016, 30, 1256-1262.	0.8	11
46	Kinetics and thermodynamics of Malachite Green dye removal from aqueous phase using iron nanoparticles loaded on ash. <i>Journal of Molecular Liquids</i> , 2016, 223, 1340-1347.	2.3	57
47	Taguchi L8 (27) orthogonal array design method for the optimization of synthesis conditions of manganese phosphate (Mn ₃ (PO ₄) ₂) nanoparticles using water-in-oil microemulsion method. <i>Journal of Molecular Liquids</i> , 2016, 219, 1131-1136.	2.3	7
48	The effect of Na ₂ SO ₄ concentration in aqueous phase on the phase inversion temperature of lemon oil in water nano-emulsions. <i>Journal of Molecular Liquids</i> , 2016, 215, 454-460.	2.3	14
49	Rapid removal of Hg (II) from aqueous solution by rice straw activated carbon prepared by microwave-assisted H ₂ SO ₄ activation: Kinetic, isotherm and thermodynamic studies. <i>Journal of Molecular Liquids</i> , 2016, 215, 144-153.	2.3	55
50	Mo (IV) adsorption from nitric acid media by Di-(2-ethylhexyl) phosphoric acid (D2EHPA) coated silanized magnetite nanoparticles. <i>Journal of Molecular Liquids</i> , 2016, 218, 346-353.	2.3	12
51	Comparison of using formaldehyde and carboxy methyl chitosan in preparation of Fe ₃ O ₄ superparamagnetic nanoparticles-chitosan hydrogel network: Sorption behavior toward bovine serum albumin. <i>Chemical Engineering Research and Design</i> , 2016, 102, 119-128.	2.7	41
52	Microporous nanocrystalline NaA zeolite prepared by microwave assisted hydrothermal method and determination of kinetic, isotherm and thermodynamic parameters of the batch sorption of Ni (II). <i>Journal of Molecular Liquids</i> , 2016, 215, 161-169.	2.3	34
53	Microwave-assisted synthesis of tetraethylenepentamine functionalized activated carbon with high adsorption capacity for Malachite green dye. <i>Journal of Molecular Liquids</i> , 2016, 213, 317-325.	2.3	93
54	Microwave-assisted functionalization of <i>Rosa Canina</i> -L fruits activated carbon with tetraethylenepentamine and its adsorption behavior toward Ni(II) in aqueous solution: Kinetic, equilibrium and thermodynamic studies. <i>Powder Technology</i> , 2015, 274, 362-371.	2.1	51

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55	Investigation of various feed conditions on NGL recovery plant energy and exergy performance: A case study. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 83-89.	2.1	20
56	Study of the adsorption of Cd (II) from aqueous solution using zeolite-based geopolymer, synthesized from coal fly ash; kinetic, isotherm and thermodynamic studies. <i>Arabian Journal of Chemistry</i> , 2015, 8, 837-849.	2.3	195
57	Application of kinetic, isotherm and thermodynamic models for the adsorption of Co(II) ions on polyaniline/polypyrrole copolymer nanofibers from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4233-4241.	2.9	101
58	Application of novel Polypyrrole/thiol-functionalized zeolite Beta/MCM-41 type mesoporous silica nanocomposite for adsorption of Hg ²⁺ from aqueous solution and industrial wastewater: Kinetic, isotherm and thermodynamic studies. <i>Applied Surface Science</i> , 2014, 289, 487-494.	3.1	90
59	Adsorption kinetics, isotherm, and thermodynamics of Hg ²⁺ to polyaniline/hexagonal mesoporous silica nanocomposite in water/wastewater. <i>Journal of Materials Science</i> , 2014, 49, 232-242.	1.7	40
60	Experimental investigation on enhancing aqueous cadmium removal via nanostructure composite of modified hexagonal type mesoporous silica with polyaniline/polypyrrole nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3678-3688.	2.9	41
61	Adsorption performance of suitable nanostructured novel composite adsorbent of poly(N-methylaniline) for removal of heavy metal from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4344-4352.	2.9	29
62	Synthesis and characterization of polyaniline/ γ -alumina nanocomposite: A comparative study for the adsorption of three different anionic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3890-3900.	2.9	116
63	Removal of Cr(VI) by modified brown algae <i>Sargassum bevanom</i> from aqueous solution and industrial wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 977-989.	2.7	77
64	Adsorption characteristics of Ni(II) from aqueous solution and industrial wastewater onto Polyaniline/HMS nanocomposite powder. <i>Applied Surface Science</i> , 2013, 284, 13-22.	3.1	90
65	Batch and column removal of copper by modified brown algae <i>sargassum bevanom</i> from aqueous solution. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 665-678.	0.8	15
66	Microwave-induced H ₂ SO ₄ activation of activated carbon derived from rice agricultural wastes for sorption of methylene blue from aqueous solution. <i>Desalination and Water Treatment</i> , 0, 1-14.	1.0	12