Ahmad Hosseini-Bandegharaei

List of Publications by Year
in descending order

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108 papers	10,562 citations	36203 51 h-index	32761 100 g-index
108 all docs	108 docs citations	108 times ranked	8318 citing authors

#	ARTICLE	IF	CITATIONS
1	Mistakes and inconsistencies regarding adsorption of contaminants from aqueous solutions: A critical review. Water Research, 2017, 120, 88-116.	5.3	1,811
2	A critical review of the estimation of the thermodynamic parameters on adsorption equilibria. Wrong use of equilibrium constant in the Van't Hoof equation for calculation of thermodynamic parameters of adsorption. Journal of Molecular Liquids, 2019, 273, 425-434.	2.3	1,105
3	Carbon quantum dot supported semiconductor photocatalysts for efficient degradation of organic pollutants in water: A review. Journal of Cleaner Production, 2019, 228, 755-769.	4.6	332
4	C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: viewpoints and challenges. Journal of Materials Chemistry A, 2021, 9, 111-153.	5.2	320
5	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. Chemical Engineering Journal, 2020, 391, 123496.	6.6	308
6	Recent advances in enhanced photocatalytic activity of bismuth oxyhalides for efficient photocatalysis of organic pollutants in water: A review. Journal of Industrial and Engineering Chemistry, 2019, 78, 1-20.	2.9	294
7	Review on various strategies for enhancing photocatalytic activity of graphene based nanocomposites for water purification. Arabian Journal of Chemistry, 2020, 13, 3498-3520.	2.3	282
8	Review on augmentation in photocatalytic activity of CoFe2O4 via heterojunction formation for photocatalysis of organic pollutants in water. Journal of Saudi Chemical Society, 2019, 23, 1119-1136.	2.4	224
9	Carbon quantum dots supported AgI /ZnO/phosphorus doped graphitic carbon nitride as Z-scheme photocatalyst for efficient photodegradation of 2, 4-dinitrophenol. Journal of Environmental Chemical Engineering, 2019, 7, 103272.	3.3	194
10	Fabrication of fluorine doped graphene and SmVO4 based dispersed and adsorptive photocatalyst for abatement of phenolic compounds from water and bacterial disinfection. Journal of Cleaner Production, 2018, 203, 386-399.	4.6	169
11	Is one performing the treatment data of adsorption kinetics correctly?. Journal of Environmental Chemical Engineering, 2021, 9, 104813.	3.3	161
12	Ag3PO4 modified phosphorus and sulphur co-doped graphitic carbon nitride as a direct Z-scheme photocatalyst for 2, 4-dimethyl phenol degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 374, 22-35.	2.0	153
13	Recent advances on water disinfection using bismuth based modified photocatalysts: Strategies and challenges. Journal of Cleaner Production, 2021, 297, 126617.	4.6	143
14	Magnetically separable ZnO/ZnFe2O4 and ZnO/CoFe2O4 photocatalysts supported onto nitrogen doped graphene for photocatalytic degradation of toxic dyes. Arabian Journal of Chemistry, 2020, 13, 4324-4340.	2.3	139
15	Efficient acetaminophen removal from water and hospital effluents treatment by activated carbons derived from Brazil nutshells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123966.	2.3	138
16	Converting type II AgBr/VO into ternary Z scheme photocatalyst via coupling with phosphorus doped g-C3N4 for enhanced photocatalytic activity. Separation and Purification Technology, 2019, 227, 115692.	3.9	138
17	Microwave synthesis of silica nanoparticles and its application for methylene blue adsorption. Journal of Environmental Chemical Engineering, 2018, 6, 649-659.	3.3	137
18	Biopolymers and composites: Properties, characterization and their applications in food, medical and pharmaceutical industries. Journal of Environmental Chemical Engineering, 2021, 9, 105322.	3.3	134

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19	A novel route for preparation of chemically activated carbon from pistachio wood for highly efficient Pb(II) sorption. Journal of Environmental Management, 2019, 236, 34-44.	3.8	134
20	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. Journal of Molecular Liquids, 2019, 295, 111684.	2.3	131
21	Spatial variation and probabilistic risk assessment of exposure to fluoride in drinking water. Food and Chemical Toxicology, 2018, 113, 314-321.	1.8	124
22	Tailoring cadmium sulfide-based photocatalytic nanomaterials for water decontamination: a review. Environmental Chemistry Letters, 2021, 19, 271-306.	8.3	124
23	Kinetic, equilibrium and thermodynamic studies on sorption of uranium and thorium from aqueous solutions by a selective impregnated resin containing carminic acid. Journal of Hazardous Materials, 2015, 286, 152-163.	6.5	123
24	Fabrication of dual Z-scheme photocatalyst via coupling of BiOBr/Ag/AgCl heterojunction with P and S co-doped g-C3N4 for efficient phenol degradation. Arabian Journal of Chemistry, 2020, 13, 4538-4552.	2.3	122
25	Use of chicken feather and eggshell to synthesize a novel magnetized activated carbon for sorption of heavy metal ions. Bioresource Technology, 2020, 297, 122452.	4.8	120
26	Fabrication of Ag3VO4 decorated phosphorus and sulphur co-doped graphitic carbon nitride as a high-dispersed photocatalyst for phenol mineralization and E. coli disinfection. Separation and Purification Technology, 2019, 212, 887-900.	3.9	119
27	A comparative study on capability of different tree species in accumulating heavy metals from soil and ambient air. Chemosphere, 2017, 172, 459-467.	4.2	110
28	Aloe vera waste biomass-based adsorbents for the removal of aquatic pollutants: A review. Journal of Environmental Management, 2018, 227, 354-364.	3.8	110
29	Efficient mercury removal from wastewater by pistachio wood wastes-derived activated carbon prepared by chemical activation using a novel activating agent. Journal of Environmental Management, 2018, 223, 1001-1009.	3.8	110
30	Systematic review on applicability of magnetic iron oxidesâ€“integrated photocatalysts for degradation of organic pollutants in water. Materials Today Chemistry, 2019, 14, 100186.	1.7	108
31	Effect of metal ions adsorption on the efficiency of methylene blue degradation onto MgFe2O4 as Fenton-like catalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 571, 17-26.	2.3	106
32	Review on advances in photocatalytic water disinfection utilizing graphene and graphene derivatives-based nanocomposites. Journal of Environmental Chemical Engineering, 2019, 7, 103132.	3.3	103
33	Use of nanoparticles for dye adsorption: Review. Journal of Dispersion Science and Technology, 2018, 39, 836-847.	1.3	102
34	Response to â€œSome remarks on a critical review of the estimation of the thermodynamic parameters on adsorption equilibria. Wrong use of equilibrium constant in the van't Hoff equation for calculation of thermodynamic parameters of adsorption - Journal of Molecular Liquids 273 (2019) 425â€“434.â€• Journal of Molecular Liquids, 2019, 280, 298-300.	2.3	101
35	An overview of heterojunctioned ZnFe2O4 photocatalyst for enhanced oxidative water purification. Journal of Environmental Chemical Engineering, 2021, 9, 105812.	3.3	101
36	Photocatalytic performance and quick recovery of BiOI/Fe3O4@graphene oxide ternary photocatalyst for photodegradation of 2,4-dintirophenol under visible light. Materials Today Chemistry, 2019, 12, 85-95.	1.7	84

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37	Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review. Environmental Chemistry Letters, 2021, 19, 1065-1095.	8.3	83
38	Kinetics, equilibrium and thermodynamic study of Cr(VI) sorption into toluidine blue o-impregnated XAD-7 resin beads and its application for the treatment of wastewaters containing Cr(VI). Chemical Engineering Journal, 2010, 160, 190-198.	6.6	82
39	Adsorption process and mechanism of acetaminophen onto commercial activated carbon. Journal of Environmental Chemical Engineering, 2020, 8, 104408.	3.3	82
40	Effective Adsorptive Removal of Methylene Blue from Water by Didodecyldimethylammonium Bromide-Modified Brown Clay. ACS Omega, 2020, 5, 16711-16721.	1.6	72
41	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. Biotechnology Advances, 2021, 52, 107815.	6.0	72
42	Fabrication of efficient CuO / graphitic carbon nitride based heterogeneous photo-Fenton like catalyst for degradation of 2, 4 dimethyl phenol. Chemical Engineering Research and Design, 2020, 142, 63-75.	2.7	71
43	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. Critical Reviews in Environmental Science and Technology, 2019, 49, 2155-2219.	6.6	69
44	Highly effective degradation of imidacloprid by H2O2/ fullerene decorated P-doped g-C3N4 photocatalyst. Journal of Environmental Chemical Engineering, 2020, 8, 104483.	3.3	68
45	Comparing adsorption properties of NH 4 Cl-modified activated carbon towards chlortetracycline antibiotic with those of commercial activated carbon. Journal of Molecular Liquids, 2017, 232, 367-381.	2.3	66
46	Removal of Hg(II) from aqueous solutions using a novel impregnated resin containing 1-(2-thiazolylazo)-2-naphthol (TAN). Chemical Engineering Journal, 2011, 168, 1163-1173.	6.6	62
47	Adsorption property of Br-PADAP-impregnated multiwall carbon nanotubes towards uranium and its performance in the selective separation and determination of uranium in different environmental samples. Ecotoxicology and Environmental Safety, 2018, 150, 136-143.	2.9	62
48	Metal Organic Frameworks as Desulfurization Adsorbents of DBT and 4,6-DMDBT from Fuels. Molecules, 2019, 24, 4525.	1.7	61
49	Removal of heavy metals by leaves-derived biosorbents. Environmental Chemistry Letters, 2019, 17, 755-766.	8.3	59
50	Comparison of sorption behavior of Th(IV) and U(VI) on modified impregnated resin containing quinizarin with that conventional prepared impregnated resin. Journal of Hazardous Materials, 2011, 190, 755-765.	6.5	58
51	Sorption of Cr(VI) by Amberlite XAD-7 resin impregnated with brilliant green and its determination by quercetin as a selective spectrophotometric reagent. Journal of Hazardous Materials, 2009, 169, 52-57.	6.5	56
52	Activated carbon from wood wastes for the removal of uranium and thorium ions through modification with mineral acid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125516.	2.3	54
53	An overview on bismuth molybdate based photocatalytic systems: Controlled morphology and enhancement strategies for photocatalytic water purification. Journal of Environmental Chemical Engineering, 2020, 8, 104291.	3.3	54
54	Evaluation of the potential of cassava-based residues for biofuels production. Reviews in Environmental Science and Biotechnology, 2018, 17, 553-570.	3.9	47

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55	Facile synthesis and extended visible light activity of oxygen and sulphur co-doped carbon nitride quantum dots modified Bi2MoO6 for phenol degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112588.	2.0	47
56	Fabrication of visible light active BiFeO3/CuS/SiO2 Z-scheme photocatalyst for efficient dye degradation. Materials Letters, 2020, 270, 127693.	1.3	46
57	Synthesis and Photocatalytic Activity of Niâ€“Fe Layered Double Hydroxide Modified Sulphur Doped Graphitic Carbon Nitride (SGCN/Niâ€“Fe LDH) Photocatalyst for 2,4-Dinitrophenol Degradation. Topics in Catalysis, 2020, 63, 1030-1045.	1.3	45
58	NiO nanoparticles for enhanced removal of methyl orange: equilibrium, kinetics, thermodynamic and desorption studies. International Journal of Environmental Analytical Chemistry, 2022, 102, 84-103.	1.8	42
59	A comparative study on the synthesis of magnesium ferrite for the adsorption of metal ions: Insights into the essential role of crystallite size and surface hydroxyl groups. Chemical Engineering Journal, 2021, 411, 128523.	6.6	42
60	Synthesis of Eu3+â^'doped ZnO/Bi2O3 heterojunction photocatalyst on graphene oxide sheets for visible light-assisted degradation of 2,4-dimethyl phenol and bacteria killing. Solid State Sciences, 2020, 102, 106164.	1.5	39
61	Use of a selective extractant-impregnated resin for removal of Pb(II) ion from waters and wastewaters: Kinetics, equilibrium and thermodynamic study. Chemical Engineering Research and Design, 2014, 92, 581-591.	2.7	35
62	Metal-free photo-activation of peroxymonosulfate using graphene supported graphitic carbon nitride for enhancing photocatalytic activity. Materials Letters, 2020, 277, 128277.	1.3	35
63	Sorption efficiency of three novel extractant-impregnated resins containing vesuvin towards Pb(II) ion: Effect of nitrate and amine functionalization of resin backbone. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 504, 62-74.	2.3	34
64	Synthesis and characterization of Ag/TiO2/composite aerogel for enhanced adsorption and photo-catalytic degradation of toluene from the gas phase. Chemical Engineering Research and Design, 2019, 150, 1-13.	2.7	34
65	Adsorption properties of Danthron-impregnated carbon nanotubes and their usage for solid phase extraction of heavy metal ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128528.	2.3	34
66	Selective extraction of Th(IV) over U(VI) and other co-existing ions using eosin B-impregnated Amberlite IRA-410 resin beads. Journal of Radioanalytical and Nuclear Chemistry, 2010, 283, 23-30.	0.7	32
67	Adsorptive potential of Znâ€“Al and Mgâ€“Fe layered double hydroxides for the removal of 2â€“nitrophenol from aqueous solutions. Journal of Environmental Chemical Engineering, 2020, 8, 103913.	3.3	32
68	Recent advances in silver bromide-based Z-scheme photocatalytic systems for environmental and energy applications: A review. Journal of Environmental Chemical Engineering, 2021, 9, 105157.	3.3	31
69	Solar light assisted degradation of oxytetracycline from water using Bi2O3/Fe3O4 supported graphitic carbon nitride photocatalyst. , 0, 148, 338-350.		30
70	Column-mode separation and pre-concentration of some heavy metal ions by solvent-impregnated resins containing quinizarin before the determination by flame atomic absorption spectrometry. International Journal of Environmental Analytical Chemistry, 2009, 89, 35-48.	1.8	29
71	A novel extractant-impregnated resin containing carminic acid for selective separation and pre-concentration of uranium(VI) and thorium(IV). International Journal of Environmental Analytical Chemistry, 2013, 93, 108-124.	1.8	29
72	Magnetic dispersive micro-solid phase extraction merged with micro-sampling flame atomic absorption spectrometry using (Zn-Al LDH)-(PTh/DBSNa)-Fe3O4 nanosorbent for effective trace determination of nickel(II) and cadmium(II) in food samples. Microchemical Journal, 2020, 159, 105450.	2.3	27

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73	Peroxymonosulphate-mediated metal-free pesticide photodegradation and bacterial disinfection using well-dispersed graphene oxide supported phosphorus-doped graphitic carbon nitride. Applied Nanoscience (Switzerland), 2020, 10, 4115-4137.	1.6	27
74	Silver-mediated Bi2O3 and graphitic carbon nitride nanocomposite as all solid state Z scheme photocatalyst for imidacloprid pesticide abatement from water. , 0, 171, 344-355.		27
75	Preconcentration and determination of ultra-trace amounts of U(VI) and Th(IV) using titan yellow-impregnated Amberlite XAD-7 resin. International Journal of Environmental Analytical Chemistry, 2015, 95, 277-290.	1.8	26
76	Thorium removal from weakly acidic solutions using titan yellow-impregnated XAD-7 resin beads: kinetics, equilibrium and thermodynamic studies. Journal of Radioanalytical and Nuclear Chemistry, 2016, 309, 761.	0.7	26
77	A Strategy to Develop Efficient Ag₃PO₄â€based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges. ChemCatChem, 2021, 13, 2965-2987.	1.8	25
78	Effect of nitrate and amine functionalization on the adsorption properties of a macroporous resin towards tetracycline antibiotic. Journal of the Taiwan Institute of Chemical Engineers, 2016, 66, 143-153.	2.7	24
79	Kinetics and regression analysis of phenanthrene adsorption on the nanocomposite of CaO and activated carbon: Characterization, regeneration, and mechanistic approach. Journal of Molecular Liquids, 2021, 334, 116080.	2.3	24
80	Solvent Impregnated Resins containing Quinizarin: Preparation and Application to Batchâ€mode Separation of Cd(II), Cu(II), Ni(II), and Zn(II) in Aqueous Media Prior to the Determination by Flame Atomic Absorption Spectrometry. Separation Science and Technology, 2007, 42, 3465-3480.	1.3	22
81	Solid-Phase Extraction of Trace Amounts of Uranium(VI) in Environmental Water Samples Using an Extractant-Impregnated Resin Followed by Detection with UV-Vis Spectrophotometry. Journal of Chemistry, 2013, 2013, 1-10.	0.9	21
82	Sorption of Cobalt (II) Ions from Aqueous Solutions Using Chemically Modified Chitosan. Global Nest Journal, 2018, 20, 620-627.	0.3	21
83	Acenaphthene adsorption onto ultrasonic assisted fatty acid mediated porous activated carbon-characterization, isotherm and kinetic studies. Chemosphere, 2021, 284, 131249.	4.2	20
84	Response to â€œLetter to Editor: Minor correction to the thermodynamic calculation using the distribution constant by Shan et al. and Rahmani-Sani et al.â€• Journal of Hazardous Materials, 2017, 325, 367-368.	6.5	18
85	Constructing a novel all-solid-state Z-scheme BiVO4/CQDs/FeVO4 photocatalyst and its enhancement to the photocatalytic activity. Materials Letters, 2021, 297, 129940.	1.3	18
86	Z-scheme photocatalytic dye degradation on AgBr/Zn(Co)Fe2O4 photocatalysts supported on nitrogen-doped graphene. Materials Today Sustainability, 2020, 9, 100043.	1.9	16
87	Application of Fusarium sp. immobilized on multi-walled carbon nanotubes for solid-phase extraction and trace analysis of heavy metal cations. Food Chemistry, 2020, 322, 126757.	4.2	16
88	Preparation and characterization of cassava stem biochar for mixed reactive dyes removal from simulated effluent. , 0, 189, 440-451.		16
89	Application of supramolecular solvent-based dispersive liquidâ€“liquid microextraction for trace monitoring of lead in food samples. Analytical Methods, 2016, 8, 5533-5539.	1.3	15
90	Back-propagation neural network: Boxâ€“Behnken design modelling for optimization of copper adsorption on orange zest biochar. International Journal of Environmental Science and Technology, 2022, 19, 4321-4336.	1.8	15

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91	Effect of Mg2+ ions on competitive metal ions adsorption/desorption on magnesium ferrite: Mechanism, reusability and stability studies. Journal of Hazardous Materials, 2021, 411, 124902.	6.5	15
92	Efficacy evaluation of NH₄Cl-induced activated carbon inÂremoval of aniline from aqueous solutions and comparing its performance with commercial activated carbon. Desalination and Water Treatment, 2016, 57, 23779-23789.	1.0	13
93	Sorption and mechanism studies of Cu2+, Sr2+ and Pb2+ ions on mesoporous aluminosilicates/zeolite composite sorbents. Water Science and Technology, 2020, 82, 984-997.	1.2	13
94	A novel solvent-impregnated resin containing 3-hydroxy-2-naphthoic acid for stepwise extraction of Th(IV) and U(VI) over other coexistence ions. Separation Science and Technology, 2016, 51, 1328-1335.	1.3	12
95	The application of pine-based adsorbents to remove potentially toxic elements from aqueous solutions. , 2021, , 113-133.		12
96	Simvastatin prevents morphine-induced tolerance and dependence in mice. Biomedicine and Pharmacotherapy, 2017, 93, 406-411.	2.5	11
97	Solidified floating organic drop microextraction for pre-concentration and trace monitoring of cadmium ions in environmental food and water samples. Journal of the Iranian Chemical Society, 2017, 14, 1725-1733.	1.2	10
98	Synthesis and comparison of two different morphologies of graphitic carbon nitride as adsorbent for preconcentration of heavy metal ions by effervescent salt-assisted dispersive micro solid phase extraction method. Journal of Dispersion Science and Technology, 2023, 44, 2093-2102.	1.3	10
99	Chitosan-Based Materials for the Removal of Nickel Ions from Aqueous Solutions. Russian Journal of Physical Chemistry A, 2020, 94, 748-755.	0.1	9
100	Comparing cadmium removal efficiency of a magnetized biochar based on orange peel with those of conventional orange peel and unmodified biochar. , 0, 82, 157-169.		9
101	Structural changes of waste biomass induced by alkaline treatment: the effect on crystallinity and thermal properties. Biomass Conversion and Biorefinery, 2022, 12, 2377-2387.	2.9	8
102	Thermally treated aluminium waste-filings, a low cost and efficient adsorbent for phosphorus removal from water. Global Nest Journal, 2018, 20, 488-496.	0.3	6
103	Coating of porous graphitic carbon nitride modified with titanium dioxide (OH-g-C3N4/TiO2) on Ag wire as an SPME fiber for extraction of lead. Journal of Sol-Gel Science and Technology, 2022, 103, 345-359.	1.1	6
104	Use of NH4Cl for activation of carbon xerogel to prepare a novel efficacious adsorbent for benzene removal from contaminated air streams in a fixed-bed column. Journal of Environmental Health Science & Engineering, 2020, 18, 1141-1149.	1.4	5
105	Adsorption and photocatalysis compiled toxic dyes mineralization using graphitic carbon nitride modified ZnFe2O4 and CoFe2O4 photocatalysts supported onto N-doped graphene. , 0, 191, 381-399.		4
106	Adsorptive removal of phenol from aqueous solutions using chemically activated rice husk ash: equilibrium, kinetic, and thermodynamic studies. , 0, 158, 233-244.		3
107	Leaf Biosorbents for the Removal of Heavy Metals. Environmental Chemistry for A Sustainable World, 2018, , 87-126.	0.3	2
108	Synthetic Oil-Spills Decontamination by Using Sawdust and Activated Carbon from Aloe vera as Absorbents. Biointerface Research in Applied Chemistry, 2021, 11, 11778-11796.	1.0	2