Jae-Kyu Yang

List of Publications by Year
in descending order

65 papers	2,720 citations	172207 29 h-index	182168 51 g-index
65 all docs	65 docs citations	65 times ranked	3203 citing authors

#	Article	IF	Citations
1	Magnetic-watermelon rinds biochar for uranium-contaminated water treatment using an electromagnetic semi-batch column with removal mechanistic investigations. Chemosphere, 2022, 286, 131776.	4.2	70
2	Biopolymer mixture-entrapped modified graphene oxide for sustainable treatment of heavy metal contaminated real surface water. Journal of Water Process Engineering, 2022, 46, 102631.	2.6	20
3	Portable SA/CMC entrapped bimetallic magnetic fly ash zeolite spheres for heavy metals contaminated industrial effluents treatment via batch and column studies. Scientific Reports, 2022, 12, 3430.	1.6	18
4	Facile synthesis of economical feasible fly ashâ€“based zeoliteâ€“supported nano zerovalent iron and nickel bimetallic composite for the potential removal of heavy metals from industrial effluents. Chemosphere, 2021, 267, 128889.	4.2	71
5	Application of an electrochemical sensor using copper oxide nanoparticles/polyalizarin yellow R nanocomposite for hydrogen peroxide. Environmental Science and Pollution Research, 2021, 28, 38809-38816.	2.7	7
6	Facile synthesis of lanthanum hydroxide doped graphene oxide for scavenged of radioactive and heavy elements from water. Synthetic Metals, 2021, 273, 116691.	2.1	10
7	Potential electromagnetic column treatment of heavy metal contaminated water using porous Gd2O3-doped graphene oxide nanocomposite: Characterization and surface interaction mechanisms. Journal of Water Process Engineering, 2021, 41, 102083.	2.6	25
8	Sulfur-anchored palm shell waste-based activated carbon for ultrahigh sorption of Hg(II) for in-situ groundwater treatment. Journal of Hazardous Materials, 2021, 417, 125995.	6.5	12
9	Facile provision of CuO-Kaolin nanocomposite for boosted sonocatalytic removal of Cr(VI) from hydrous media. Environmental Technology (United Kingdom), 2021, , 1-12.	1.2	2
10	Encapsulated zerovalent iron/nickel-fly ash zeolite foam for treating industrial wastewater contaminated by heavy metals. Materials Today Chemistry, 2021, 22, 100577.	1.7	14
11	Polyvinyl Alcohol Polymer Functionalized Graphene Oxide Decorated with Gadolinium Oxide for Sequestration of Radionuclides from Aqueous Medium: Characterization, Mechanism, and Environmental Feasibility Studies. Polymers, 2021, 13, 3835.	2.0	13
12	Process optimization and modeling of lead removal using iron oxide nanocomposites generated from bio-waste mass. Chemosphere, 2020, 243, 125257.	4.2	84
13	Process modeling and optimization of an iron oxide immobilized graphene oxide gadolinium nanocomposite for arsenic adsorption. Journal of Molecular Liquids, 2020, 299, 112261.	2.3	47
14	Application of ZnO nanorods doped with Cu for enhanced sonocatalytic removal of Cr(VI) from aqueous solutions. Environmental Science and Pollution Research, 2020, 27, 2691-2706.	2.7	15
15	Green Activated Magnetic Graphitic Carbon Oxide and Its Application for Hazardous Water Pollutants Removal. Metals, 2019, 9, 935.	1.0	5
16	Facile synthesis of flowered mesoporous graphene oxide-lanthanum fluoride nanocomposite for adsorptive removal of arsenic. Journal of Molecular Liquids, 2019, 279, 32-42.	2.3	54
17	Synthesis and application of Fe-N-Cr-TiO2 nanocatalyst for photocatalytic degradation of Acid Black 1 under LED light irradiation. Journal of Molecular Liquids, 2019, 279, 232-240.	2.3	18
18	Removal of U(VI) by sugar-based magnetic pseudoâ€“graphene oxide and its application to authentic groundwater using electromagnetic system. Environmental Science and Pollution Research, 2019, 26, 22323-22337.	2.7	21

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19	Application of cadmium-doped ZnO for the solar photocatalytic degradation of phenol. Water Science and Technology, 2019, 79, 375-385.	1.2	15
20	Effective adsorptive removal of 2,4,6-trinitrotoluene and hexahydro-1,3,5-trinitro-1,3,5-triazine by pseudographitic carbon: kinetics, equilibrium and thermodynamics. Environmental Chemistry, 2018, 15, 100.	0.7	15
21	Multivariate modeling via artificial neural network applied to enhance methylene blue sorption using graphene-like carbon material prepared from edible sugar. Journal of Molecular Liquids, 2018, 265, 416-427.	2.3	58
22	Preparation and characterization of porous reduced graphene oxide based inverse spinel nickel ferrite nanocomposite for adsorption removal of radionuclides. Journal of Hazardous Materials, 2017, 326, 145-156.	6.5	188
23	Biogenic reductive preparation of magnetic inverse spinel iron oxide nanoparticles for the adsorption removal of heavy metals. Chemical Engineering Journal, 2017, 307, 74-84.	6.6	226
24	Enhanced Adsorption Removal of Pb(II) and Cr(III) by Using Nickel Ferrite-Reduced Graphene Oxide Nanocomposite. Metals, 2017, 7, 225.	1.0	45
25	Rapid degradation of phenol by ultrasound-dispersed nano-metallic particles (NMPs) in the presence of hydrogen peroxide: A possible mechanism for phenol degradation in water. Journal of Environmental Management, 2016, 175, 60-66.	3.8	21
26	Porous graphene oxide based inverse spinel nickel ferrite nanocomposites for the enhanced adsorption removal of arsenic. RSC Advances, 2016, 6, 73776-73789.	1.7	57
27	Utilization of nano/micro-size iron recovered from the fine fraction of automobile shredder residue for phenol degradation in water. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	5
28	Photocatalytic degradation of diazinon by illuminated WO₃nanopowder. Desalination and Water Treatment, 2016, 57, 8262-8269.	1.0	39
29	Application of Ni-doped ZnO rods for the degradation of an azo dye from aqueous solutions. Korean Journal of Chemical Engineering, 2016, 33, 812-822.	1.2	31
30	Application of a novel electrochemical sensor containing organo-modified sericite for the detection of low-level arsenic. Environmental Science and Pollution Research, 2016, 23, 1044-1049.	2.7	6
31	Application of C₁₄/SiO₂â€“Fe₃O₄ and ACâ€“Fe₃O₄ nanocomposite for U(VI) removal. Desalination and Water Treatment, 2016, 57, 22519-22532.	1.0	19
32	Quantitative analysis and reduction of the eco-toxicity risk of heavy metals for the fine fraction of automobile shredder residue (ASR) using H2O2. Waste Management, 2016, 48, 374-382.	3.7	17
33	A novel reutilization method for automobile shredder residue as an adsorbent for the removal of methylene blue: Mechanisms and heavy metal recovery using an ultrasonically assisted acid. Chemical Engineering Research and Design, 2016, 99, 88-97.	2.7	18
34	Studies on removal of Pb(II) and Cr(III) using graphene oxide based inverse spinel nickel ferrite nano-composite as sorbent. Hydrometallurgy, 2016, 165, 64-72.	1.8	149
35	Synthesis, characterization, and application of ZnO/TiO₂nanocomposite for photocatalysis of a herbicide (Bentazon). Desalination and Water Treatment, 2016, 57, 13632-13644.	1.0	62
36	Factors affect on bioremediation of Co(II) and Pb(II) ontoLonicera japonicaflowers powder. Desalination and Water Treatment, 2016, 57, 13066-13080.	1.0	18

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37	Photocatalytic Degradation of a Textile Dye by Illuminated Tungsten Oxide Nanopowder. Journal of Advanced Oxidation Technologies, 2015, 18, .	0.5	23
38	Photocatalytic degradation of Metronidazole with illuminated TiO2 nanoparticles. Journal of Environmental Health Science & Engineering, 2015, 13, 35.	1.4	111
39	Bimetallic oxide-coated sand filter for simultaneous removal of bacteria, Fe(II), and Mn(II) in small- and pilot-scale column experiments. Desalination and Water Treatment, 2015, 54, 3380-3391.	1.0	10
40	Removal studies of Cd(II) and explosive compounds using buffalo weed biochar-alginate beads. Journal of Industrial and Engineering Chemistry, 2015, 26, 226-233.	2.9	60
41	Photocatalytic degradation of diazinon with illuminated ZnOâ€“TiO2 composite. Journal of the Taiwan Institute of Chemical Engineers, 2015, 50, 100-107.	2.7	121
42	Oxidation of sulphide in abandoned mine tailings by ferrate. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.2	3
43	Photocatalytic reduction of hexavalent chromium with illuminated amorphous FeOOH. Environmental Technology (United Kingdom), 2015, 36, 1132-1140.	1.2	23
44	Influencing factors on sorption of TNT and RDX using rice husk biochar. Journal of Industrial and Engineering Chemistry, 2015, 32, 178-186.	2.9	44
45	Application of Scallop shell-Fe3O4 Nano-Composite for the Removal Azo Dye from Aqueous Solutions. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	22
46	Photocatalytic reduction of hexavalent chromium with illuminated ZnO/TiO2 composite. Journal of Industrial and Engineering Chemistry, 2015, 22, 317-323.	2.9	114
47	Removal of acid blue 113 and reactive black 5 dye from aqueous solutions by activated red mud. Journal of Industrial and Engineering Chemistry, 2014, 20, 1432-1437.	2.9	118
48	Application of ZnOâ€“Fe3O4 Nanocomposite on the Removal of Azo Dye from Aqueous Solutions: Kinetics and Equilibrium Studies. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	90
49	Removal of Arsenic and Phosphate from Aqueous Solution by Metal (Hydr-)oxide Coated Sand. ACS Sustainable Chemistry and Engineering, 2014, 2, 1128-1138.	3.2	62
50	Application of ferrate for the treatment of metal-sulfide. Journal of Environmental Management, 2013, 116, 95-100.	3.8	8
51	Effect of organic matter on cyanide removal by illuminated titanium dioxide or zinc oxide nanoparticles. Journal of Environmental Health Science & Engineering, 2013, 11, 23.	1.4	32
52	Buffalo weed (Ambrosia trifida L. var. trifida) biochar for cadmium (II) and lead (II) adsorption in single and mixed system. Desalination and Water Treatment, 2013, 51, 7732-7745.	1.0	69
53	Improving the clean-up efficiency of field soil contaminated with diesel oil by the application of stabilizers. Environmental Technology (United Kingdom), 2013, 34, 1481-1487.	1.2	20
54	Iron Oxide ImpregnatedMorus albaL. Fruit Peel for Biosorption of Co(II): Biosorption Properties and Mechanism. Scientific World Journal, The, 2013, 2013, 1-14.	0.8	19

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55	Application of activated carbon impregnated with metal oxides to the treatment of multi-contaminants. Environmental Technology (United Kingdom), 2012, 33, 1553-1559.	1.2	5
56	Photocatalytic removal of Cr(VI) and Ni(II) by UV/TiO2: kinetic study. Desalination and Water Treatment, 2012, 40, 77-83.	1.0	54
57	Bacterial removal in flow-through columns packed with iron-manganese bimetallic oxide-coated sand. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1364-1371.	0.9	5
58	Heavy metal removal from aqueous solution by tannins immobilized on collagen. Desalination and Water Treatment, 2012, 48, 1-8.	1.0	12
59	Removal of As(V) and Cr(VI) in aqueous solution by sand media simultaneously coated with Fe and Mn oxides. Journal of Industrial and Engineering Chemistry, 2012, 18, 188-192.	2.9	36
60	Photocatalytic Removal of Reactive Black-5 Dye from Aqueous Solution by UV Irradiation in Aqueous TiO2: Equilibrium and Kinetics Study. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	6
61	Removal of As(III) and As(V) by natural and synthetic metal oxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 202-207.	2.3	33
62	Removal of As(III) in a column reactor packed with iron-coated sand and manganese-coated sand. Journal of Hazardous Materials, 2008, 150, 565-572.	6.5	54
63	Ferrate(VI): A green chemical for the oxidation of cyanide in aqueous/waste solutions. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 803-810.	0.9	32
64	APPLICATIONS OF FERRATE(VI) IN THE TREATMENT OF WASTEWATERS. Environmental Engineering Research, 2005, 10, 269-282.	1.5	35
65	Application of iron-coated sand on the treatment of toxic metals. Water Science and Technology: Water Supply, 2004, 4, 335-341.	1.0	4