

Jae-Kyu Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8993063/publications.pdf>

Version: 2024-02-01

65
papers

2,720
citations

172386

29
h-index

182361

51
g-index

65
all docs

65
docs citations

65
times ranked

3203
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic reductive preparation of magnetic inverse spinel iron oxide nanoparticles for the adsorption removal of heavy metals. <i>Chemical Engineering Journal</i> , 2017, 307, 74-84.	6.6	226
2	Preparation and characterization of porous reduced graphene oxide based inverse spinel nickel ferrite nanocomposite for adsorption removal of radionuclides. <i>Journal of Hazardous Materials</i> , 2017, 326, 145-156.	6.5	188
3	Studies on removal of Pb(II) and Cr(III) using graphene oxide based inverse spinel nickel ferrite nano-composite as sorbent. <i>Hydrometallurgy</i> , 2016, 165, 64-72.	1.8	149
4	Photocatalytic degradation of diazinon with illuminated ZnO@TiO ₂ composite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 100-107.	2.7	121
5	Removal of acid blue 113 and reactive black 5 dye from aqueous solutions by activated red mud. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1432-1437.	2.9	118
6	Photocatalytic reduction of hexavalent chromium with illuminated ZnO/TiO ₂ composite. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 317-323.	2.9	114
7	Photocatalytic degradation of Metronidazole with illuminated TiO ₂ nanoparticles. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 35.	1.4	111
8	Application of ZnO@Fe ₃ O ₄ Nanocomposite on the Removal of Azo Dye from Aqueous Solutions: Kinetics and Equilibrium Studies. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	90
9	Process optimization and modeling of lead removal using iron oxide nanocomposites generated from bio-waste mass. <i>Chemosphere</i> , 2020, 243, 125257.	4.2	84
10	Facile synthesis of economical feasible fly ash-based zeolite-supported nano zerovalent iron and nickel bimetallic composite for the potential removal of heavy metals from industrial effluents. <i>Chemosphere</i> , 2021, 267, 128889.	4.2	71
11	Magnetic-watermelon rinds biochar for uranium-contaminated water treatment using an electromagnetic semi-batch column with removal mechanistic investigations. <i>Chemosphere</i> , 2022, 286, 131776.	4.2	70
12	Buffalo weed (<i>Ambrosia trifida</i> L. var. <i>trifida</i>) biochar for cadmium (II) and lead (II) adsorption in single and mixed system. <i>Desalination and Water Treatment</i> , 2013, 51, 7732-7745.	1.0	69
13	Removal of Arsenic and Phosphate from Aqueous Solution by Metal (Hydr-)oxide Coated Sand. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1128-1138.	3.2	62
14	Synthesis, characterization, and application of ZnO/TiO ₂ nanocomposite for photocatalysis of a herbicide (Bentazon). <i>Desalination and Water Treatment</i> , 2016, 57, 13632-13644.	1.0	62
15	Removal studies of Cd(II) and explosive compounds using buffalo weed biochar-alginate beads. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 26, 226-233.	2.9	60
16	Multivariate modeling via artificial neural network applied to enhance methylene blue sorption using graphene-like carbon material prepared from edible sugar. <i>Journal of Molecular Liquids</i> , 2018, 265, 416-427.	2.3	58
17	Porous graphene oxide based inverse spinel nickel ferrite nanocomposites for the enhanced adsorption removal of arsenic. <i>RSC Advances</i> , 2016, 6, 73776-73789.	1.7	57
18	Removal of As(III) in a column reactor packed with iron-coated sand and manganese-coated sand. <i>Journal of Hazardous Materials</i> , 2008, 150, 565-572.	6.5	54

#	ARTICLE	IF	CITATIONS
19	Photocatalytic removal of Cr(VI) and Ni(II) by UV/TiO ₂ : kinetic study. <i>Desalination and Water Treatment</i> , 2012, 40, 77-83.	1.0	54
20	Facile synthesis of flowered mesoporous graphene oxide-lanthanum fluoride nanocomposite for adsorptive removal of arsenic. <i>Journal of Molecular Liquids</i> , 2019, 279, 32-42.	2.3	54
21	Process modeling and optimization of an iron oxide immobilized graphene oxide gadolinium nanocomposite for arsenic adsorption. <i>Journal of Molecular Liquids</i> , 2020, 299, 112261.	2.3	47
22	Enhanced Adsorption Removal of Pb(II) and Cr(III) by Using Nickel Ferrite-Reduced Graphene Oxide Nanocomposite. <i>Metals</i> , 2017, 7, 225.	1.0	45
23	Influencing factors on sorption of TNT and RDX using rice husk biochar. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 178-186.	2.9	44
24	Photocatalytic degradation of diazinon by illuminated WO ₃ nanopowder. <i>Desalination and Water Treatment</i> , 2016, 57, 8262-8269.	1.0	39
25	Removal of As(V) and Cr(VI) in aqueous solution by sand media simultaneously coated with Fe and Mn oxides. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 188-192.	2.9	36
26	APPLICATIONS OF FERRATE(VI) IN THE TREATMENT OF WASTEWATERS. <i>Environmental Engineering Research</i> , 2005, 10, 269-282.	1.5	35
27	Removal of As(III) and As(V) by natural and synthetic metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 346, 202-207.	2.3	33
28	Ferrate(VI): A green chemical for the oxidation of cyanide in aqueous/waste solutions. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 803-810.	0.9	32
29	Effect of organic matter on cyanide removal by illuminated titanium dioxide or zinc oxide nanoparticles. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 23.	1.4	32
30	Application of Ni-doped ZnO rods for the degradation of an azo dye from aqueous solutions. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 812-822.	1.2	31
31	Potential electromagnetic column treatment of heavy metal contaminated water using porous Gd ₂ O ₃ -doped graphene oxide nanocomposite: Characterization and surface interaction mechanisms. <i>Journal of Water Process Engineering</i> , 2021, 41, 102083.	2.6	25
32	Photocatalytic Degradation of a Textile Dye by Illuminated Tungsten Oxide Nanopowder. <i>Journal of Advanced Oxidation Technologies</i> , 2015, 18, .	0.5	23
33	Photocatalytic reduction of hexavalent chromium with illuminated amorphous FeOOH. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1132-1140.	1.2	23
34	Application of Scallop shell-Fe ₃ O ₄ Nano-Composite for the Removal Azo Dye from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	22
35	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. <i>Journal of Environmental Management</i> , 2016, 175, 60-66.	3.8	21
36	Removal of U(VI) by sugar-based magnetic pseudo-graphene oxide and its application to authentic groundwater using electromagnetic system. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22323-22337.	2.7	21

#	ARTICLE	IF	CITATIONS
37	Improving the clean-up efficiency of field soil contaminated with diesel oil by the application of stabilizers. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1481-1487.	1.2	20
38	Biopolymer mixture-entrapped modified graphene oxide for sustainable treatment of heavy metal contaminated real surface water. <i>Journal of Water Process Engineering</i> , 2022, 46, 102631.	2.6	20
39	Iron Oxide Impregnated <i>Morus alba</i> L. Fruit Peel for Biosorption of Co(II): Biosorption Properties and Mechanism. <i>Scientific World Journal</i> , The, 2013, 2013, 1-14.	0.8	19
40	Application of C ₁₄ /SiO ₂ –Fe ₃ O ₄ and AC–Fe ₃ O ₄ nanocomposite for U(VI) removal. <i>Desalination and Water Treatment</i> , 2016, 57, 22519-22532.	1.0	19
41	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. <i>Chemical Engineering Research and Design</i> , 2016, 99, 88-97.	2.7	18
42	Factors affect on bioremediation of Co(II) and Pb(II) onto <i>Lonicera japonica</i> flowers powder. <i>Desalination and Water Treatment</i> , 2016, 57, 13066-13080.	1.0	18
43	Synthesis and application of Fe-N-Cr-TiO ₂ nanocatalyst for photocatalytic degradation of Acid Black 1 under LED light irradiation. <i>Journal of Molecular Liquids</i> , 2019, 279, 232-240.	2.3	18
44	Portable SA/CMC entrapped bimetallic magnetic fly ash zeolite spheres for heavy metals contaminated industrial effluents treatment via batch and column studies. <i>Scientific Reports</i> , 2022, 12, 3430.	1.6	18
45	Quantitative analysis and reduction of the eco-toxicity risk of heavy metals for the fine fraction of automobile shredder residue (ASR) using H ₂ O ₂ . <i>Waste Management</i> , 2016, 48, 374-382.	3.7	17
46	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. <i>Environmental Chemistry</i> , 2018, 15, 100.	0.7	15
47	Application of cadmium-doped ZnO for the solar photocatalytic degradation of phenol. <i>Water Science and Technology</i> , 2019, 79, 375-385.	1.2	15
48	Application of ZnO nanorods doped with Cu for enhanced sonocatalytic removal of Cr(VI) from aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2691-2706.	2.7	15
49	Encapsulated zerovalent iron/nickel-fly ash zeolite foam for treating industrial wastewater contaminated by heavy metals. <i>Materials Today Chemistry</i> , 2021, 22, 100577.	1.7	14
50	Polyvinyl Alcohol Polymer Functionalized Graphene Oxide Decorated with Gadolinium Oxide for Sequestration of Radionuclides from Aqueous Medium: Characterization, Mechanism, and Environmental Feasibility Studies. <i>Polymers</i> , 2021, 13, 3835.	2.0	13
51	Heavy metal removal from aqueous solution by tannins immobilized on collagen. <i>Desalination and Water Treatment</i> , 2012, 48, 1-8.	1.0	12
52	Sulfur-anchored palm shell waste-based activated carbon for ultrahigh sorption of Hg(II) for in-situ groundwater treatment. <i>Journal of Hazardous Materials</i> , 2021, 417, 125995.	6.5	12
53	Bimetallic oxide-coated sand filter for simultaneous removal of bacteria, Fe(II), and Mn(II) in small- and pilot-scale column experiments. <i>Desalination and Water Treatment</i> , 2015, 54, 3380-3391.	1.0	10
54	Facile synthesis of lanthanum hydroxide doped graphene oxide for scavenged of radioactive and heavy elements from water. <i>Synthetic Metals</i> , 2021, 273, 116691.	2.1	10

#	ARTICLE	IF	CITATIONS
55	Application of ferrate for the treatment of metal-sulfide. Journal of Environmental Management, 2013, 116, 95-100.	3.8	8
56	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
57	Photocatalytic Removal of Reactive Black-5 Dye from Aqueous Solution by UV Irradiation in Aqueous TiO ₂ : Equilibrium and Kinetics Study. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	6
58	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
59	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
60	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
61	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
62	Green Activated Magnetic Graphitic Carbon Oxide and Its Application for Hazardous Water Pollutants Removal. Metals, 2019, 9, 935.	1.0	5
63	Application of iron-coated sand on the treatment of toxic metals. Water Science and Technology: Water Supply, 2004, 4, 335-341.	1.0	4
64	Oxidation of sulphide in abandoned mine tailings by ferrate. Environmental Technology (United Kingdom), 2004, 25, 1075-1080.	1.2	3
65	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