

Song-Bae Kim

List of Publications by Year in descending order

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90
papers

1,859
citations

304602

22
h-index

315616

38
g-index

90
all docs

90
docs citations

90
times ranked

2267
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic, equilibrium and thermodynamic studies for phosphate adsorption to magnetic iron oxide nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 236, 341-347.	6.6	327
2	Oxidation of tetracycline and oxytetracycline for the photo-Fenton process: Their transformation products and toxicity assessment. <i>Water Research</i> , 2020, 172, 115514.	5.3	193
3	Bacteria transport through goethite-coated sand: Effects of solution pH and coated sand content. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 63, 236-242.	2.5	64
4	Comparative analysis of fixed-bed sorption models using phosphate breakthrough curves in slag filter media. <i>Desalination and Water Treatment</i> , 2015, 55, 1795-1805.	1.0	52
5	Numerical analysis of bacterial transport in saturated porous media. <i>Hydrological Processes</i> , 2006, 20, 1177-1186.	1.1	51
6	Electrospun poly(acrylic acid)/poly(vinyl alcohol) nanofibrous adsorbents for Cu(II) removal from industrial plating wastewater. <i>RSC Advances</i> , 2017, 7, 18075-18084.	1.7	40
7	Adsorption of microcystin-LR on mesoporous carbons and its potential use in drinking water source. <i>Chemosphere</i> , 2017, 177, 15-23.	4.2	38
8	Quantification of bacterial mass recovery as a function of pore-water velocity and ionic strength. <i>Research in Microbiology</i> , 2007, 158, 70-78.	1.0	37
9	Transport and retention of <i>Escherichia coli</i> in a mixture of quartz, Al-coated and Fe-coated sands. <i>Hydrological Processes</i> , 2008, 22, 3856-3863.	1.1	35
10	Entrapment of Mg-Al layered double hydroxide in calcium alginate beads for phosphate removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2011, 36, 178-186.	1.0	34
11	Synthesis of powdered and granular N-(3-trimethoxysilylpropyl)diethylenetriamine-grafted mesoporous silica SBA-15 for Cr(VI) removal from industrial wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 87, 140-149.	2.7	33
12	Removal of arsenic and selenium from aqueous solutions using magnetic iron oxide nanoparticle/multi-walled carbon nanotube adsorbents. <i>Desalination and Water Treatment</i> , 2016, 57, 28323-28339.	1.0	30
13	Antimicrobial filtration with electrospun poly(vinyl alcohol) nanofibers containing benzyl triethylammonium chloride: Immersion, leaching, toxicity, and filtration tests. <i>Chemosphere</i> , 2017, 167, 469-477.	4.2	30
14	Investigating Microcystin-LR adsorption mechanisms on mesoporous carbon, mesoporous silica, and their amino-functionalized form: Surface chemistry, pore structures, and molecular characteristics. <i>Chemosphere</i> , 2020, 247, 125811.	4.2	29
15	DLVO and XDLVO calculations for bacteriophage MS2 adhesion to iron oxide particles. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 131-140.	1.6	26
16	Surface functionalization of mesoporous silica MCM-41 with 3-aminopropyltrimethoxysilane for dye removal: kinetic, equilibrium, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 7066-7078.	1.0	26
17	Use of pyrophyllite clay for fluoride removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2013, 51, 3408-3416.	1.0	24
18	Preparation and characterization of antimicrobial electrospun poly(vinyl alcohol) nanofibers containing benzyl triethylammonium chloride. <i>Reactive and Functional Polymers</i> , 2015, 93, 30-37.	2.0	24

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19	Oxidation and molecular properties of microcystin-LR, microcystin-RR and anatoxin-a using UV-light-emitting diodes at 255 nm in combination with H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2019, 366, 423-432.	6.6	24
20	Synthesis of an oxidized mesoporous carbon-based magnetic composite and its application for heavy metal removal from aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 45-52.	2.2	24
21	Enhancement of selective Cu(II) sorption through preparation of surface-imprinted mesoporous silica SBA-15 under high molar concentration ratios of chloride and copper ions. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 193-201.	2.2	23
22	Metal-organic framework MIL-100(Fe) for dye removal in aqueous solutions: Prediction by artificial neural network and response surface methodology modeling. <i>Environmental Pollution</i> , 2020, 267, 115583.	3.7	23
23	Immobilization of Layered Double Hydroxide into Polyvinyl Alcohol/Alginate Hydrogel Beads for Phosphate Removal. <i>Environmental Engineering Research</i> , 2012, 17, 133-138.	1.5	23
24	Phosphate removal from aqueous solutions using slag microspheres. <i>Desalination and Water Treatment</i> , 2012, 44, 229-236.	1.0	21
25	Immobilization of layered double hydroxide in poly(vinylidene fluoride)/poly(vinyl alcohol) polymer matrices to synthesize bead-type adsorbents for phosphate removal from natural water. <i>Applied Clay Science</i> , 2019, 170, 1-12.	2.6	20
26	Kinetics of benzene biodegradation by <i>Pseudomonas aeruginosa</i> : Parameter estimation. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1038-1045.	2.2	19
27	Bacteria transport in an unsaturated porous media: incorporation of air-water interface area model into transport modelling. <i>Hydrological Processes</i> , 2008, 22, 2370-2376.	1.1	19
28	Adhesion of bacteria to pyrophyllite clay in aqueous solution. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 1955-1962.	1.2	19
29	Influence of flow rate and organic carbon content on benzene transport in a sandy soil. <i>Hydrological Processes</i> , 2006, 20, 4307-4316.	1.1	18
30	Synthesis of poly(ethyleneimine)-functionalized mesoporous silica gel with dual loading of host ion and crosslinking for enhanced heavy metal removal in multinary solutions. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110698.	2.2	18
31	Ammonium-functionalized mesoporous silica MCM-41 for phosphate removal from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 10839-10849.	1.0	17
32	Laboratory and pilot-scale field experiments for application of iron oxide nanoparticle-loaded chitosan composites to phosphate removal from natural water. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1077-1087.	1.2	17
33	The role of phosphate in bacterial interaction with iron-coated surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 68, 79-82.	2.5	16
34	Magnetic alginate-layered double hydroxide composites for phosphate removal. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2749-2756.	1.2	16
35	Cr(VI) Adsorption to Magnetic Iron Oxide Nanoparticle-Walled Carbon Nanotube Adsorbents. <i>Water Environment Research</i> , 2016, 88, 2111-2120.	1.3	16
36	Arsenic removal from water using iron-impregnated granular activated carbon in the presence of bacteria. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 177-182.	0.9	15

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37	Transport of carboxyl-functionalized carbon black nanoparticles in saturated porous media: Column experiments and model analyses. <i>Journal of Contaminant Hydrology</i> , 2015, 177-178, 194-205.	1.6	15
38	Analysis of bacterial cell properties and transport in porous media. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 682-691.	0.9	14
39	Anti-biofouling enhancement of a polycarbonate membrane with functionalized poly(vinyl alcohol) electrospun nanofibers: Permeation flux, biofilm formation, contact, and regeneration tests. <i>Journal of Membrane Science</i> , 2017, 540, 192-199.	4.1	14
40	Synthesis of quaternized mesoporous silica SBA-15 with different alkyl chain lengths for selective nitrate removal from aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2020, 295, 109967.	2.2	14
41	Bacteriophage removal in various clay minerals and clay-amended soils. <i>Environmental Engineering Research</i> , 2015, 20, 133-140.	1.5	14
42	Bacterial Attachment and Detachment in Aluminum-Coated Quartz Sand in Response to Ionic Strength Change. <i>Water Environment Research</i> , 2010, 82, 499-505.	1.3	13
43	Bacterial Adhesion to Metal Oxide-Coated Surfaces in the Presence of Silicic Acid. <i>Water Environment Research</i> , 2011, 83, 470-476.	1.3	13
44	Removal of Cr(VI) from aqueous solution using alginate/polyvinyl alcohol-hematite composite. <i>Desalination and Water Treatment</i> , 2013, 51, 3438-3444.	1.0	13
45	Analysis of diclofenac removal by metal-organic framework MIL-100(Fe) using multi-parameter experiments and artificial neural network modeling. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 121, 257-267.	2.7	13
46	Phosphate Removal from Aqueous Solution by Aluminum (Hydr)oxide-coated Sand. <i>Environmental Engineering Research</i> , 2009, 14, 164-169.	1.5	13
47	Adhesion of <i>Escherichia coli</i> to Iron-Coated Sand in the Presence of Humic Acid: A Column Experiment. <i>Water Environment Research</i> , 2009, 81, 125-130.	1.3	12
48	Characterization of Water Quality and the Aerobic Bacterial Population in Leachate Derived from Animal Carcass Disposal. <i>Journal of Engineering Geology</i> , 2013, 23, 37-46.	0.1	12
49	Adsorption of bacteriophage MS2 to magnetic iron oxide nanoparticles in aqueous solutions. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 1116-1124.	0.9	12
50	Microbial Removal Using Layered Double Hydroxides and Iron (Hydr)oxides Immobilized on Granular Media. <i>Environmental Engineering Research</i> , 2010, 15, 149-156.	1.5	12
51	Phosphate sorption to quintinite in aqueous solutions: Kinetic, thermodynamic and equilibrium analyses. <i>Environmental Engineering Research</i> , 2015, 20, 73-78.	1.5	12
52	Bacterial attachment to iron-impregnated granular activated carbon. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 196-201.	2.5	11
53	Influence of (bi)carbonate on bacterial interaction with quartz and metal oxide-coated surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 57-62.	2.5	11
54	Fluoride removal using calcined Mg/Al layered double hydroxides at high fluoride concentrations. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 249-256.	1.0	11

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55	Synthesis of quaternary ammonium-functionalized silica gel through grafting of dimethyl dodecyl [3-(trimethoxysilyl)propyl]ammonium chloride for nitrate removal in batch and column studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 153-162.	2.7	11
56	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
57	Comparative Analysis of Bacteriophages and Bacteria Removal in Soils and Pyrophyllite-Amended Soils: Column Experiments. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	10
58	Synthesis of dual-functionalized poly(vinyl alcohol)/poly(acrylic acid) electrospun nanofibers with enzyme and copper ion for enhancing anti-biofouling activities. <i>Journal of Materials Science</i> , 2019, 54, 9969-9982.	1.7	10
59	Development of natural and ecological wastewater treatment system for decentralized community in Korea. <i>Paddy and Water Environment</i> , 2008, 6, 221-227.	1.0	9
60	Influence of Surfactants on Bacterial Adhesion to Metal Oxide-Coated Surfaces. <i>Environmental Engineering Research</i> , 2011, 16, 219-225.	1.5	9
61	Contaminant transport and biodegradation in saturated porous media: model development and simulation. <i>Hydrological Processes</i> , 2005, 19, 4069-4079.	1.1	8
62	Mg/Al layered double hydroxide for bacteriophage removal in aqueous solution. <i>Water Science and Technology</i> , 2012, 66, 761-767.	1.2	8
63	Quantification of Bacterial Attachment-related Parameters in Porous Media. <i>Environmental Engineering Research</i> , 2008, 13, 141-146.	1.5	8
64	Humic Acid Removal from Water by Iron-coated Sand: A Column Experiment. <i>Environmental Engineering Research</i> , 2009, 14, 41-47.	1.5	8
65	Artificial neural network and response surface methodology modeling for diclofenac removal by quaternized mesoporous silica SBA-15 in aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111497.	2.2	8
66	Modacrylic anion-exchange fibers for Cr(VI) removal from chromium-plating rinse water in batch and flow-through column experiments. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 1195-1203.	0.9	7
67	Determination of bromacil transport as a function of water and carbon content in soils. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2007, 42, 529-537.	0.7	6
68	Transport and removal of bacteriophages MS2 and PhiX174 in steel slag-amended soils: column experiments and transport model analyses. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1199-1207.	1.2	6
69	Artificial Neural Network Modeling for Prediction of Dynamic Changes in Solution from Bioleaching by Indigenous Acidophilic Bacteria. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7569.	1.3	6
70	Determination of bacterial mass recovery in iron-coated sand: Influence of ionic strength. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008, 43, 1108-1114.	0.9	5
71	Removal of bacteriophage MS2 from aqueous solution using Mg-Fe layered double hydroxides. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 1683-1689.	0.9	5
72	Bacterial removal in flow-through columns packed with iron-manganese bimetallic oxide-coated sand. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 1364-1371.	0.9	5

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73	Preparation of magnetic alginate- γ -layered double hydroxide composite adsorbents and removal of Cr(VI) from aqueous solution. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 846-853.	1.0	5
74	Lab-scale experiments and model analyses for bacterial removal in flow-through columns containing dolomite. <i>Desalination and Water Treatment</i> , 2014, 52, 6556-6566.	1.0	5
75	Pyrophyllite clay for bacteriophage MS2 removal in the presence of fluoride. <i>Water Science and Technology: Water Supply</i> , 2014, 14, 485-492.	1.0	5
76	Analysis of phosphate removal from aqueous solutions by hydrocalumite. <i>Desalination and Water Treatment</i> , 2016, 57, 21476-21486.	1.0	5
77	Experimental and modeling analyses for interactions between graphene oxide and quartz sand. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 368-377.	0.9	5
78	Attachment characteristic of indigenous acidophilic bacteria to pyrite surface in mine waste. <i>Geosystem Engineering</i> , 2012, 15, 123-131.	0.7	3
79	Influence of As(V) on bacteriophage MS2 removal by hematite in aqueous solutions. <i>Desalination and Water Treatment</i> , 2015, 56, 760-769.	1.0	3
80	Flow-through experiments for bacteriophage MS2 removal by iron oxide-impregnated fiberglass. <i>Desalination and Water Treatment</i> , 2015, 54, 2314-2323.	1.0	3
81	Nitrate removal by quaternized mesoporous silica gel in ternary anion solutions: Flow-through column experiments and artificial neural network modeling. <i>Journal of Water Process Engineering</i> , 2021, 41, 102067.	2.6	3
82	Application of generalized contaminant retardation factor to a multi-phase system. <i>Hydrological Processes</i> , 2003, 17, 3059-3068.	1.1	2
83	Clarification of nonlinear retardation factors for colloid-enhanced transport in porous media. <i>Hydrogeology Journal</i> , 2007, 15, 1433-1437.	0.9	2
84	Bioleaching of chalcopyrite using indigenous acidophilic bacteria under moderate thermophile conditions. <i>Geosystem Engineering</i> , 2012, 15, 229-238.	0.7	2
85	Determination of optimum isotherm and kinetic models for phosphate sorption onto iron oxide nanoparticles: nonlinear regression with various error functions. <i>Desalination and Water Treatment</i> , 2016, 57, 3107-3118.	1.0	2
86	Characterization of magnetic zeolite-polymer composites for Cu(II) and Cr(III) removal from aqueous solutions. , 0, 67, 261-270.		2
87	Use of converter furnace steel slag for bacteria removal in flow-through columns. <i>Desalination and Water Treatment</i> , 2013, 51, 7681-7689.	1.0	1
88	Functionalization of activated carbon fiber through iron oxide impregnation for As(V) removal: equilibrium, kinetic, and thermodynamic analyses. <i>Desalination and Water Treatment</i> , 2016, 57, 10757-10766.	1.0	1
89	Comparative analysis for fouling characteristics of river water, secondary effluent, and humic acid solution in ceramic membrane ultrafiltration. <i>Separation Science and Technology</i> , 2017, 52, 2199-2211.	1.3	1
90	Deposition and transport of <i>Pseudomonas aeruginosa</i> in porous media: lab-scale experiments and model analysis. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2757-2764.	1.2	0