

Chang-Gu Lee

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

3,259
citations

186209

28
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182361

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all docs

116
docs citations

116
times ranked

3578
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	Porous Electrospun Fibers Embedding TiO ₂ for Adsorption and Photocatalytic Degradation of Water Pollutants. <i>Environmental Science & Technology</i> , 2018, 52, 4285-4293.	4.6	286
3	Arsenic(V) removal using an amine-doped acrylic ion exchange fiber: Kinetic, equilibrium, and regeneration studies. <i>Journal of Hazardous Materials</i> , 2017, 325, 223-229.	6.5	159
4	Removal of copper, nickel and chromium mixtures from metal plating wastewater by adsorption with modified carbon foam. <i>Chemosphere</i> , 2017, 166, 203-211.	4.2	152
5	Phosphorous recovery from sewage sludge using calcium silicate hydrates. <i>Chemosphere</i> , 2018, 193, 1087-1093.	4.2	77
6	Application of magnetic biochar derived from food waste in heterogeneous sono-Fenton-like process for removal of organic dyes from aqueous solution. <i>Journal of Water Process Engineering</i> , 2020, 37, 101455.	2.6	76
7	Easily Recoverable, Micrometer-Sized TiO ₂ Hierarchical Spheres Decorated with Cyclodextrin for Enhanced Photocatalytic Degradation of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2018, 52, 12402-12411.	4.6	71
8	Photocatalytic degradation of neonicotinoid insecticides using sulfate-doped Ag ₃ PO ₄ with enhanced visible light activity. <i>Chemical Engineering Journal</i> , 2020, 402, 126183.	6.6	70
9	Lead and copper removal from aqueous solutions using carbon foam derived from phenol resin. <i>Chemosphere</i> , 2015, 130, 59-65.	4.2	69
10	Efficient removal of bisphenol-A by ultra-high surface area porous activated carbon derived from asphalt. <i>Carbon</i> , 2018, 140, 441-448.	5.4	67
11	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
12	Synthesis of Fe-impregnated biochar from food waste for Selenium(Ⅵ) removal from aqueous solution through adsorption: Process optimization and assessment. <i>Chemosphere</i> , 2020, 252, 126475.	4.2	61
13	Production of Biochar from Food Waste and its Application for Phenol Removal from Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	58
14	Application of carbon foam for heavy metal removal from industrial plating wastewater and toxicity evaluation of the adsorbent. <i>Chemosphere</i> , 2016, 153, 1-9.	4.2	57
15	The Removal of Crystal Violet from Textile Wastewater Using Palm Kernel Shell-Derived Biochar. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2251.	1.3	55
16	Nascent Rice Husk as an Adsorbent for Removing Cationic Dyes from Textile Wastewater. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3437.	1.3	53
17	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
18	The feasibility of using bentonite, illite, and zeolite as capping materials to stabilize nutrients and interrupt their release from contaminated lake sediments. <i>Chemosphere</i> , 2019, 219, 217-226.	4.2	48

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19	Experimental and model study for fluoride removal by thermally activated sepiolite. <i>Chemosphere</i> , 2020, 241, 125094.	4.2	46
20	Fe-loaded biochar obtained from food waste for enhanced phosphate adsorption and its adsorption mechanism study via spectroscopic and experimental approach. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105751.	3.3	45
21	Evaluation of sediment capping with activated carbon and nonwoven fabric mat to interrupt nutrient release from lake sediments. <i>Science of the Total Environment</i> , 2017, 599-600, 413-421.	3.9	44
22	Thermally treated <i>Mytilus coruscus</i> shells for fluoride removal and their adsorption mechanism. <i>Chemosphere</i> , 2021, 263, 128328.	4.2	43
23	Effect of Pt catalyst on the condensable hydrocarbon content generated via food waste pyrolysis. <i>Chemosphere</i> , 2020, 248, 126043.	4.2	42
24	Application of aluminum-modified food waste biochar as adsorbent of fluoride in aqueous solutions and optimization of production using response surface methodology. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110764.	2.2	41
25	Pyrolysis of Polyethylene Terephthalate over Carbon-Supported Pd Catalyst. <i>Catalysts</i> , 2020, 10, 496.	1.6	36
26	Use of calcined sepiolite in removing phosphate from water and returning phosphate to soil as phosphorus fertilizer. <i>Journal of Environmental Management</i> , 2020, 270, 110817.	3.8	36
27	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
28	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
29	Enhanced sonocatalytic degradation of bisphenol A with a magnetically recoverable biochar composite using rice husk and rice bran as substrate. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105284.	3.3	31
30	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
31	Fluoride removal by thermally treated egg shells with high adsorption capacity, low cost, and easy acquisition. <i>Environmental Science and Pollution Research</i> , 2021, 28, 35887-35901.	2.7	29
32	Bisphenol A degradation using waste antivirus copper film with enhanced sono-Fenton-like catalytic oxidation. <i>Chemosphere</i> , 2021, 276, 130218.	4.2	29
33	Conversion of cattle manure into functional material to remove selenate from wastewater. <i>Chemosphere</i> , 2021, 278, 130398.	4.2	28
34	Restoring phosphorus from water to soil: Using calcined eggshells for P adsorption and subsequent application of the adsorbent as a P fertilizer. <i>Chemosphere</i> , 2022, 287, 132267.	4.2	28
35	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
36	Use of pyrophyllite clay for fluoride removal from aqueous solution. <i>Desalination and Water Treatment</i> , 2013, 51, 3408-3416.	1.0	24

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37	Effect of nitrogen doping on titanium carbonitride-derived adsorbents used for arsenic removal. <i>Journal of Hazardous Materials</i> , 2016, 302, 375-385.	6.5	24
38	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
39	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
40	Effective regeneration of an adsorbent for the removal of organic contaminants developed based on UV radiation and toxicity evaluation. <i>Reactive and Functional Polymers</i> , 2015, 95, 62-70.	2.0	22
41	Application of Thermally Treated Crushed Concrete Granules for the Removal of Phosphate: A Cheap Adsorbent with High Adsorption Capacity. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	22
42	Application of the anion-exchange resin as a complementary technique to remove residual cyanide complexes in industrial plating wastewater after conventional treatment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 41688-41701.	2.7	22
43	New insight to the use of oyster shell for removing phosphorus from aqueous solutions and fertilizing rice growth. <i>Journal of Cleaner Production</i> , 2021, 328, 129536.	4.6	22
44	Phosphate removal from aqueous solutions using slag microspheres. <i>Desalination and Water Treatment</i> , 2012, 44, 229-236.	1.0	21
45	Applicability and toxicity evaluation of an adsorbent based on jujube for the removal of toxic heavy metals. <i>Reactive and Functional Polymers</i> , 2015, 93, 138-147.	2.0	21
46	Evaluation of the Use of Sea Sand, Crushed Concrete, and Bentonite to Stabilize Trace Metals and to Interrupt Their Release from Contaminated Marine Sediments. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	20
47	As(III) adsorption onto Fe-impregnated food waste biochar: experimental investigation, modeling, and optimization using response surface methodology. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3303-3321.	1.8	20
48	Application of PANI/TiO ₂ Composite for Photocatalytic Degradation of Contaminants from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6710.	1.3	20
49	Adhesion of bacteria to pyrophyllite clay in aqueous solution. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2749-2756.	1.2	19
50	Removal of fluoride from water using thermally treated dolomite and optimization of experimental conditions using response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 10839-10849.	1.0	17
51	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
52	pH-dependent contribution of chlorine monoxide radicals and byproducts formation during UV/chlorine treatment on clothianidin. <i>Chemical Engineering Journal</i> , 2022, 428, 132444.	6.6	17
53	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
54	Magnetic alginate-layered double hydroxide composites for phosphate removal. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2749-2756.	1.2	16

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55	Cr(VI) Adsorption to Magnetic Iron Oxide Nanoparticle-Modified Walled Carbon Nanotube Adsorbents. <i>Water Environment Research</i> , 2016, 88, 2111-2120.	1.3	16
56	Adsorption of triclosan from aqueous solution onto char derived from palm kernel shell. , 0, 177, 71-79.		16
57	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
58	Catalytic Pyrolysis as a Technology to Dispose of Herbal Medicine Waste. <i>Catalysts</i> , 2020, 10, 826.	1.6	14
59	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
60	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
61	Recycling of bottom ash derived from combustion of cattle manure and its adsorption behaviors for Cd(II), Cu(II), Pb(II), and Ni(II). <i>Environmental Science and Pollution Research</i> , 2021, 28, 14957-14968.	2.7	13
62	Ultrasound-activated peroxydisulfate process with copper film to remove bisphenol A: Operational parameter impact and back propagation-artificial neural network modeling. <i>Journal of Water Process Engineering</i> , 2021, 44, 102326.	2.6	13
63	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
64	Removal and Recovery of Cr(VI) from Industrial Plating Wastewater Using Fibrous Anion Exchanger. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	12
65	Remediation of metal-contaminated marine sediments using active capping with limestone, steel slag, and activated carbon: a laboratory experiment. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3479-3491.	1.2	12
66	Applications of Natural and Synthetic Melanins as Biosorbents and Adhesive Coatings. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 646-654.	1.4	12
67	Removal of Heavy Metals (Cd ²⁺ , Cu ²⁺ , Ni ²⁺ , Pb ²⁺) from Aqueous Solution Using <i>Hizikia fusiformis</i> as an Algae-Based Bioadsorbent. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8604.	1.3	12
68	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
69	Phosphate sorption to quintinite in aqueous solutions: Kinetic, thermodynamic and equilibrium analyses. <i>Environmental Engineering Research</i> , 2015, 20, 73-78.	1.5	12
70	Removal of phosphorus from water using calcium-rich organic waste and its potential as a fertilizer for rice growth. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107367.	3.3	12
71	Bacterial attachment to iron-impregnated granular activated carbon. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 196-201.	2.5	11
72	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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73	Thermal treatment of attapulgite for phosphate removal: A cheap and natural adsorbent with high adsorption capacity. , 0, 114, 174-184.		11
74	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
75	Application of response surface methodology and artificial neural network for the preparation of Fe-loaded biochar for enhanced Cr(VI) adsorption and its physicochemical properties and Cr(VI) adsorption characteristics. <i>Environmental Science and Pollution Research</i> , 2022, 29, 60852-60866.	2.7	10
76	Conversion of Organic Waste to Novel Adsorbent for Fluoride Removal: Efficacy and Mechanism of Fluoride Adsorption by Calcined <i>Venerupis philippinarum</i> Shells. <i>Water, Air, and Soil Pollution</i> , 2022, 233, .	1.1	10
77	Comparison of capping and mixing of calcined dolomite and zeolite for interrupting the release of nutrients from contaminated lake sediment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15045-15056.	2.7	9
78	Simple preparation method for Styrofoamâ€“TiO ₂ composites and their photocatalytic application for dye oxidation and Cr(VI) reduction in industrial wastewater. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 222-230.	1.2	9
79	Effect of pyrolysis conditions on food waste conversion to biochar as a coagulant aid for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2021, 41, 102081.	2.6	9
80	Influence of Surfactants on Bacterial Adhesion to Metal Oxide-Coated Surfaces. <i>Environmental Engineering Research</i> , 2011, 16, 219-225.	1.5	9
81	Removal of triclosan from aqueous solution using thermally treated rice husks. , 0, 202, 317-326.		9
82	Application of response surface methodology and semi-mechanistic model to optimize fluoride removal using crushed concrete in a fixed-bed column. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 616-627.	1.2	8
83	Effect of temperature on capping efficiency of zeolite and activated carbon under fabric mats for interrupting nutrient release from sediments. <i>Scientific Reports</i> , 2019, 9, 15754.	1.6	8
84	Numerical modelling for effect of water curtain in mitigating toxic gas release. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 63, 103972.	1.7	8
85	Removal of Cu(II) from Aqueous Solutions Using Amine-Doped Polyacrylonitrile Fibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1738.	1.3	8
86	Quantification of Bacterial Attachment-related Parameters in Porous Media. <i>Environmental Engineering Research</i> , 2008, 13, 141-146.	1.5	8
87	Humic Acid Removal from Water by Iron-coated Sand: A Column Experiment. <i>Environmental Engineering Research</i> , 2009, 14, 41-47.	1.5	8
88	A Hybrid Ion-Exchange Fabric/Ceramic Membrane System to Remove As(V), Zn(II), and Turbidity from Wastewater. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2414.	1.3	7
89	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
90	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

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91	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
92	Preparation of magnetic alginate- $\text{Fe}(\text{OH})_2$ 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
93	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
94	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
95	Analysis of phosphate removal from aqueous solutions by hydrocalumite. <i>Desalination and Water Treatment</i> , 2016, 57, 21476-21486.	1.0	5
96	Bi-Polymer Electrospun Nanofibers Embedding $\text{Ag}_3\text{PO}_4/\text{P}25$ Composite for Efficient Photocatalytic Degradation and Anti-Microbial Activity. <i>Catalysts</i> , 2020, 10, 784.	1.6	5
97	Thermo-Chemical Treatment for Carcass Disposal and the Application of Treated Carcass as Compost. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 431.	1.3	5
98	Water and soil properties in organic and conventional paddies throughout the rice cultivation cycle in South Korea. <i>Environmental Engineering Research</i> , 2019, 24, 45-53.	1.5	5
99	Phosphorus recovery from cattle manure bottom ash by extraction and precipitation methods. <i>Environmental Science and Pollution Research</i> , 2022, 29, 39567-39577.	2.7	5
100	Application of a nanofibrous composite membrane to the fertilizer-driven forward osmosis process for irrigation water use. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2700-2708.	1.2	4
101	Application of Fe-Impregnated Biochar from Cattle Manure for Removing Pentavalent Antimony from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9257.	1.3	4
102	Effectivity and adsorption mechanism of food waste biochar for triclosan removal: a spectroscopic and experimental approach. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 11067-11083.	2.9	4
103	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
104	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
105	Degradation of Oxytetracycline by Persulfate Activation Using a Magnetic Separable Iron Oxide Catalyst Derived from Hand-Warmer Waste. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10447.	1.3	3
106	Contamination of typical phthalate acid esters in surface water and sediment of the Pearl River, South China: Occurrence, distribution, and health risk assessment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2022, 57, 130-138.	0.9	3
107	Application of calcium-rich mineral under nonwoven fabric mats and sand armor as cap layer for interrupting N and P release from river sediments. <i>Environmental Science and Pollution Research</i> , 2022, 29, 59444-59455.	2.7	3
108	Bacteriophage removal by Ni/Al layered double hydroxide in batch and flow-through column experiments. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 2060-2068.	0.9	2

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109	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
110	Characterization of magnetic zeolite-polymer composites for Cu(II) and Cr(III) removal from aqueous solutions. , 0, 67, 261-270.		2
111	Characterization of anion exchange fiber for simultaneous removal of Cr(VI) and As(V) in mineral processing wastewater. , 0, 135, 247-257.		2
112	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
113	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
114	Evaluating effectiveness of dust by-product treatment with scrubbers to mitigate explosion risk in ZrO ₂ atomic layer deposition process. <i>Journal of Hazardous Materials</i> , 2020, 400, 123284.	6.5	1
115	Scaled-Down Experiments and Numerical Simulations for the Design of a Retention Tank with Rotatable Bucket. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 04018092.	0.7	0
116	Illite for the removal of E. coli by filtration in water treatment processes: a comparative study. , 0, 163, 270-280.		0