Seong Jik Park

List of Publications by Citations

118 papers	1,271 citations	19 h-index	30 g-index
136 ext. papers	1,707 ext. citations	4.4 avg, IF	5.27 L-index

#	Paper	IF	Citations
118	Arsenic(V) removal using an amine-doped acrylic ion exchange fiber: Kinetic, equilibrium, and regeneration studies. *Journal of Hazardous Materials*, **2017**, 325, 223-229	12.8	111
117	Harvesting of Chlorella sp. KR-1 using a cross-flow membrane filtration system equipped with an anti-fouling membrane. *Bioresource Technology*, **2013**, 139, 379-82	11	72
116	Bacteria transport through goethite-coated sand: effects of solution pH and coated sand content. *Colloids and Surfaces B: Biointerfaces*, **2008**, 63, 236-42	6	56
115	Nanofiltration membranes based on polyvinylidene fluoride nanofibrous scaffolds and crosslinked polyethyleneimine networks. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	50
114	Recovery of Lithium(I), Strontium(II), and Lanthanum(III) Using Ca-Alginate Beads. *Journal of Chemical & Engineering Data*, **2013**, 58, 2455-2464	2.8	45
113	Photocatalytic degradation of neonicotinoid insecticides using sulfate-doped Ag3PO4 with enhanced visible light activity. *Chemical Engineering Journal*, **2020**, 402, 126183	14.7	34
112	Evaluation of sediment capping with activated carbon and nonwoven fabric mat to interrupt nutrient release from lake sediments. *Science of the Total Environment*, **2017**, 599-600, 413-421	10.2	33
111	Production of Biochar from Food Waste and its Application for Phenol Removal from Aqueous Solution. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	33
110	The feasibility of using bentonite, illite, and zeolite as capping materials to stabilize nutrients and interrupt their release from contaminated lake sediments. *Chemosphere*, **2019**, 219, 217-226	8.4	33
109	Synthesis of Fe-impregnated biochar from food waste for Selenium(VI) removal from aqueous solution through adsorption: Process optimization and assessment. *Chemosphere*, **2020**, 252, 126475	8.4	32
108	Comparative analysis of fixed-bed sorption models using phosphate breakthrough curves in slag filter media. *Desalination and Water Treatment*, **2015**, 55, 1795-1805		31
107	Application of magnetic biochar derived from food waste in heterogeneous sono-Fenton-like process for removal of organic dyes from aqueous solution. *Journal of Water Process Engineering*, **2020**, 37, 101455	6.7	31
106	Transport and retention of Escherichia coli in a mixture of quartz, Al-coated and Fe-coated sands. *Hydrological Processes*, **2008**, 22, 3856-3863	3.3	30
105	Experimental and model study for fluoride removal by thermally activated sepiolite. *Chemosphere*, **2020**, 241, 125094	8.4	30
104	The Removal of Crystal Violet from Textile Wastewater Using Palm Kernel Shell-Derived Biochar. *Applied Sciences (Switzerland)*, **2020**, 10, 2251	2.6	28
103	Entrapment of Mg-Al layered double hydroxide in calcium alginate beads for phosphate removal from aqueous solution. *Desalination and Water Treatment*, **2011**, 36, 178-186		24
102	Thermally treated Mytilus coruscus shells for fluoride removal and their adsorption mechanism. *Chemosphere*, **2021**, 263, 128328	8.4	20

101	Nascent Rice Husk as an Adsorbent for Removing Cationic Dyes from Textile Wastewater. *Applied Sciences (Switzerland)*, **2020**, 10, 3437	2.6	19
100	Response surface methodology for optimization of solvent extraction to recovery of acetic acid from black liquor derived from Typha latifolia pulping process. *Industrial Crops and Products*, **2016**, 89, 34-44	5.9	19
99	Application of Thermally Treated Crushed Concrete Granules for the Removal of Phosphate: A Cheap Adsorbent with High Adsorption Capacity. *Water, Air, and Soil Pollution*, **2017**, 228, 1	2.6	18
98	Dilute sulfuric acid fractionation of Korean food waste for ethanol and lactic acid production by yeast. *Waste Management*, **2018**, 74, 231-240	8.6	17
97	Evaluation of the Use of Sea Sand, Crushed Concrete, and Bentonite to Stabilize Trace Metals and to Interrupt Their Release from Contaminated Marine Sediments. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	16
96	Bacteria transport in an unsaturated porous media: incorporation of air–water interface area model into transport modelling. *Hydrological Processes*, **2008**, 22, 2370-2376	3.3	15
95	Bisphenol A degradation using waste antivirus copper film with enhanced sono-Fenton-like catalytic oxidation. *Chemosphere*, **2021**, 276, 130218	8.4	15
94	The role of phosphate in bacterial interaction with iron-coated surfaces. *Colloids and Surfaces B: Biointerfaces*, **2009**, 68, 79-82	6	14
93	Applicability and toxicity evaluation of an adsorbent based on jujube for the removal of toxic heavy metals. *Reactive and Functional Polymers*, **2015**, 93, 138-147	4.6	13
92	Use of calcined sepiolite in removing phosphate from water and returning phosphate to soil as phosphorus fertilizer. *Journal of Environmental Management*, **2020**, 270, 110817	7.9	13
91	Adhesion of bacteria to pyrophyllite clay in aqueous solution. *Environmental Technology (United Kingdom)*, **2013**, 34, 703-10	2.6	13
90	Bacterial Adhesion to Metal Oxide-Coated Surfaces in the Presence of Silicic Acid. *Water Environment Research*, **2011**, 83, 470-476	2.8	12
89	Analysis of bacterial cell properties and transport in porous media. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2010**, 45, 682-91	2.3	12
88	Bacterial attachment and detachment in aluminum-coated quartz sand in response to ionic strength change. *Water Environment Research*, **2010**, 82, 499-505	2.8	12
87	Phosphate Removal from Aqueous Solution by Aluminum (Hydr)oxide-coated Sand. *Environmental Engineering Research*, **2009**, 14, 164-169	3.6	12
86	Application of aluminum-modified food waste biochar as adsorbent of fluoride in aqueous solutions and optimization of production using response surface methodology. *Microporous and Mesoporous Materials*, **2021**, 312, 110764	5.3	12
85	Enhanced sonocatalytic degradation of bisphenol A with a magnetically recoverable biochar composite using rice husk and rice bran as substrate. *Journal of Environmental Chemical Engineering* , **2021**, 9, 105284	6.8	12
84	pH-Dependent Conformations for Hyperbranched Poly(ethylenimine) from All-Atom Molecular Dynamics. *Macromolecules*, **2018**, 51, 2187-2194	5.5	11

83	Removal of fluoride from water using thermally treated dolomite and optimization of experimental conditions using response surface methodology155, 311-320		11
82	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		10
81	Adhesion of Escherichia coli to iron-coated sand in the presence of humic acid: a column experiment. *Water Environment Research*, **2009**, 81, 125-30	2.8	10
80	Microbial Removal Using Layered Double Hydroxides and Iron (Hydr)oxides Immobilized on Granular Media. *Environmental Engineering Research*, **2010**, 15, 149-156	3.6	10
79	Removal of Synthetic Heavy Metal (Cr6+,Cu2+,As3+,Pb2+) from Water Using Red Mud and Lime Stone. *Daehan Hwanigyeong Gonghag Hoeji*, **2012**, 34, 566-573	0.6	10
78	Remediation of metal-contaminated marine sediments using active capping with limestone, steel slag, and activated carbon: a laboratory experiment. *Environmental Technology (United Kingdom)*, **2019**, 40, 3479-3491	2.6	9
77	Bacterial attachment to iron-impregnated granular activated carbon. *Colloids and Surfaces B: Biointerfaces*, **2009**, 74, 196-201	6	9
76	Influence of (bi)carbonate on bacterial interaction with quartz and metal oxide-coated surfaces. *Colloids and Surfaces B: Biointerfaces*, **2010**, 76, 57-62	6	9
75	As(III) adsorption onto Fe-impregnated food waste biochar: experimental investigation, modeling, and optimization using response surface methodology. *Environmental Geochemistry and Health*, **2021**, 43, 3303-3321	4.7	9
74	Fe-loaded biochar obtained from food waste for enhanced phosphate adsorption and its adsorption mechanism study via spectroscopic and experimental approach. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105751	6.8	9
73	Conversion of cattle manure into functional material to remove selenate from wastewater. *Chemosphere*, **2021**, 278, 130398	8.4	9
72	Influence of Surfactants on Bacterial Adhesion to Metal Oxide-Coated Surfaces. *Environmental Engineering Research*, **2011**, 16, 219-225	3.6	8
71	Fluoride removal by thermally treated egg shells with high adsorption capacity, low cost, and easy acquisition. *Environmental Science and Pollution Research*, **2021**, 28, 35887-35901	5.1	8
70	Comparison of capping and mixing of calcined dolomite and zeolite for interrupting the release of nutrients from contaminated lake sediment. *Environmental Science and Pollution Research*, **2020**, 27, 15045-15056	5.1	7
69	Quantification of Bacterial Attachment-related Parameters in Porous Media. *Environmental Engineering Research*, **2008**, 13, 141-146	3.6	7
68	Humic Acid Removal from Water by Iron-coated Sand: A Column Experiment. *Environmental Engineering Research*, **2009**, 14, 41-47	3.6	7
67	Adsorption of triclosan from aqueous solution onto char derived from palm kernel shell177, 71-79		7
66	Phosphate Removal of Aqueous Solutions using Industrial Wastes. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 49-57		7

65	Optimization of fabrication parameters for nanofibrous composite membrane using response surface methodology. *Desalination and Water Treatment*, **2016**, 57, 20188-20198		7
64	Restoring phosphorus from water to soil: Using calcined eggshells for P adsorption and subsequent application of the adsorbent as a P fertilizer. *Chemosphere*, **2022**, 287, 132267	8.4	7
63	Optimization study on acid hydrolysis of hardwood-derived hemicellulosic extract for alcohol fermentation using response surface methodology. *Holzforschung*, **2015**, 69, 135-141	2	6
62	Application of PANI/TiO2 Composite for Photocatalytic Degradation of Contaminants from Aqueous Solution. *Applied Sciences (Switzerland)*, **2020**, 10, 6710	2.6	6
61	Application of Red Mud and Oyster Shell for the Stabilization of Heavy Metals (Pb, Zn and Cu) in Marine Contaminated Sediment. *Daehan Hwanigyeong Gonghag Hoeji*, **2012**, 34, 751-756	0.6	6
60	Evaluation of the Efficiency of Solvent Systems to Remove Acetic Acid Derived from Pre-pulping Extraction. *Journal of the Korean Wood Science and Technology*, **2013**, 41, 447-455	2	6
59	Application of the anion-exchange resin as a complementary technique to remove residual cyanide complexes in industrial plating wastewater after conventional treatment. *Environmental Science and Pollution Research*, **2020**, 27, 41688-41701	5.1	6
58	Improvement of Membrane Distillation Using PVDF Membrane Incorporated with TiO Modified by Silane and Optimization of Fabricating Conditions. *Membranes*, **2021**, 11,	3.8	6
57	Removal of Cu(II) from Aqueous Solutions Using Amine-Doped Polyacrylonitrile Fibers. *Applied Sciences (Switzerland)*, **2020**, 10, 1738	2.6	5
56	Application of response surface methodology and semi-mechanistic model to optimize fluoride removal using crushed concrete in a fixed-bed column. *Environmental Technology (United Kingdom)*, **2018**, 39, 616-627	2.6	5
55	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, 1364-71	2.3	5
54	Determination of bacterial mass recovery in iron-coated sand: influence of ionic strength. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2008**, 43, 1108-14	2.3	5
53	Application of Montmorillonite as Capping Material for Blocking of Phosphate Release from Contaminated Marine Sediment. *Daehan Hwanigyeong Gonghag Hoeji*, **2014**, 36, 554-560	0.6	5
52	Monitoring Biota in Giant Miscanthus Fields. *Journal of the Korean Society of Agricultural Engineers*, **2014**, 56, 89-99		5
51	Removal of triclosan from aqueous solution via adsorption by kenaf-derived biochar: Its adsorption mechanism study via spectroscopic and experimental approaches. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106343	6.8	5
50	Application of a nanofibrous composite membrane to the fertilizer-driven forward osmosis process for irrigation water use. *Environmental Technology (United Kingdom)*, **2017**, 38, 2700-2708	2.6	4
49	A Hybrid Ion-Exchange Fabric/Ceramic Membrane System to Remove As(V), Zn(II), and Turbidity from Wastewater. *Applied Sciences (Switzerland)*, **2020**, 10, 2414	2.6	4
48	Water and soil properties in organic and conventional paddies throughout the rice cultivation cycle in South Korea. *Environmental Engineering Research*, **2019**, 24, 45-53	3.6	4

47	Natural Zeolite and Sand Capping Treatment for Interrupting the Release of Cd, Cr, Cu, and Zn from Marine Contaminated Sediment and Stabilizing the Heavy Metals. *Daehan Hwanigyeong Gonghag Hoeji*, **2016**, 38, 135-143	0.6	4
46	Thermal treatment of attapulgite for phosphate removal: A cheap and natural adsorbent with high adsorption capacity114, 174-184		4
45	Removal of triclosan from aqueous solution using thermally treated rice husks202, 317-326		4
44	New insight to the use of oyster shell for removing phosphorus from aqueous solutions and fertilizing rice growth. *Journal of Cleaner Production*, **2021**, 129536	10.3	4
43	Response surface methodology to investigate the effects of operational parameters on membrane fouling and organic matter rejection in hard-shell encased hollow-fiber membrane. *Chemosphere*, **2022**, 287, 132132	8.4	4
42	Lab-scale experiments and model analyses for bacterial removal in flow-through columns containing dolomite. *Desalination and Water Treatment*, **2014**, 52, 6556-6566		3
41	Effect of temperature on capping efficiency of zeolite and activated carbon under fabric mats for interrupting nutrient release from sediments. *Scientific Reports*, **2019**, 9, 15754	4.9	3
40	Simple preparation method for Styrofoam□TiO2 composites and their photocatalytic application for dye oxidation and Cr(VI) reduction in industrial wastewater. *Environmental Science: Water Research and Technology*, **2021**, 7, 222-230	4.2	3
39	Recycling of bottom ash derived from combustion of cattle manure and its adsorption behaviors for Cd(II), Cu(II), Pb(II), and Ni(II). *Environmental Science and Pollution Research*, **2021**, 28, 14957-14968	5.1	3
38	Removal of Heavy Metals (Cd2+, Cu2+, Ni2+, Pb2+) from Aqueous Solution Using Hizikia fusiformis as an Algae-Based Bioadsorbent. *Applied Sciences (Switzerland)*, **2021**, 11, 8604	2.6	3
37	Effects of Fertilization on Ponded Water and Soil Quality in Organic and Conventional Paddy **2016**, 24, 139-152		2
36	Manufacture of High Efficiency Phosphate Adsorbent by Thermal Treatment of Dolomite **2018**, 26, 69-78		2
35	Adsorption Characteristics of Calcined Oyster Shell for the Removal of Fluoride. *Daehan Hwanigyeong Gonghag Hoeji*, **2019**, 41, 695-702	0.6	2
34	Change in Soil Properties after Planting Giant Miscanthus. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 69-75		2
33	Extraction of Hemicellulosic Sugar and Acetic Acid from Different Wood Species with Pressurized Dilute Acid Pretreatment. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 172-182	2	2
32	Nanofiltration membranes based on polyvinylidene fluoride nanofibrous scaffolds and crosslinked polyethyleneimine networks **2012**, 33-46		2
31	Influence of Acid and Heat Treatment on the Removal of Fluoride by Red Mud. *Daehan Hwanigyeong Gonghag Hoeji*, **2015**, 37, 210-217	0.6	2
30	Effect of pyrolysis conditions on food waste conversion to biochar as a coagulant aid for wastewater treatment. *Journal of Water Process Engineering*, **2021**, 41, 102081	6.7	2

29	Ultrasound-activated peroxydisulfate process with copper film to remove bisphenol A: Operational parameter impact and back propagation-artificial neural network modeling. *Journal of Water Process Engineering*, **2021**, 44, 102326	6.7	2
28	pH-dependent contribution of chlorine monoxide radicals and byproducts formation during UV/chlorine treatment on clothianidin. *Chemical Engineering Journal*, **2022**, 428, 132444	14.7	2
27	Removal of phosphorus from water using calcium-rich organic waste and its potential as a fertilizer for rice growth. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107367	6.8	1
26	Removal of Cd2+, Cu2+, Pb2+, Ni2+ in Aqueous Solution by Thermally Treated Sepiolite. *Daehan Hwanigyeong Gonghag Hoeji*, **2019**, 41, 372-380	0.6	1
25	Optimization of Acetic Acid Recovery Using Tri-n-alkylphosphine Oxide from Prepulping Extract of Hemicellulose by Response Surface Methodology. *Journal of the Korean Wood Science and Technology*, **2016**, 44, 477-493	2	1
24	Effectivity and adsorption mechanism of food waste biochar for triclosan removal: a spectroscopic and experimental approach. *Biomass Conversion and Biorefinery*,1	2.3	1
23	Applicability Assessment of Steel Slag as Reactive Capping Material for Blocking Phosphorus Release from Marine Sediment. *Journal of the Korean Society of Agricultural Engineers*, **2014**, 56, 11-17		1
22	Pb(II) Removal from Aqueous Solutions Using Pinewood and Oakwood. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 450-459	2	1
21	Applicability Assessment of Carbon Nanotube to Slow Sand Filtration for Bacteria Removal. *Daehan Hwanigyeong Gonghag Hoeji*, **2014**, 36, 873-878	0.6	1
20	Assesment of Zeolite, Montmorillonite, and Steel Slag for Interrupting Heavy Metals Release from Contaminated Marine Sediments for Capping Thickness of Reactive materials. *Journal of Navigation and Port Research*, **2015**, 39, 335-344		1
19	Applicability of Natural Zeolite with Different Cation Exchange Capacity as In-situ Capping Materials for Adsorbing Heavy Metals. *Daehan Hwanigyeong Gonghag Hoeji*, **2017**, 39, 51-58	0.6	1
18	Fluoride Removal from Aqueous Solutions using Industrial Waste Red Mud. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 35-40		1
17	Applicability Assessment of Acid Treated Red Mud as Adsorbent Material for Removal of Six-valent Chromium from Seawater. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 17-23		1
16	Environmental Aspect of Runoff Water from Miscanthus Production Field. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 113-120		1
15	Thermo-Chemical Treatment for Carcass Disposal and the Application of Treated Carcass as Compost. *Applied Sciences (Switzerland)*, **2021**, 11, 431	2.6	1
14	Degradation of Oxytetracycline by Persulfate Activation Using a Magnetic Separable Iron Oxide Catalyst Derived from Hand-Warmer Waste. *Applied Sciences (Switzerland)*, **2021**, 11, 10447	2.6	0
13	Application of Fe-Impregnated Biochar from Cattle Manure for Removing Pentavalent Antimony from Aqueous Solution. *Applied Sciences (Switzerland)*, **2021**, 11, 9257	2.6	0
12	Stabilization of Heavy Metal (Ni, Cr) in Soil Amended with Biomass Ash. *Journal of the Korean Society of Agricultural Engineers*, **2016**, 58, 39-46		0

11	Removal of Cd2+, Cu2+, Pb2+, and Ni2+ by sludge produced from liquid crystal display glass substrate. *International Journal of Environmental Science and Technology*,1	3.3	0
10	Application of calcium-rich mineral under nonwoven fabric mats and sand armor as cap layer for interrupting N and P release from river sediments.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
9	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.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
8	Scaled-Down Experiments and Numerical Simulations for the Design of a Retention Tank with Rotatable Bucket. *Journal of Environmental Engineering, ASCE*, **2018**, 144, 04018092	2	
7	Analysis of Calculation Model for Specific Air-water Interface Area in Unsaturated Porous Media. *Journal of the Korean Society of Agricultural Engineers*, **2006**, 48, 83-93		
6	Evaluation of Bacterial Transport Models for Saturated Column Experiments. *Journal of the Korean Society of Agricultural Engineers*, **2006**, 48, 55-63		
5	Comparison of Soil Chemistry and Environmental Characteristics of Organic Paddy and Conventional Paddy Before Basal Fertilizer Application. *Journal of the Korean Society of Agricultural Engineers*, **2015**, 57, 47-57		
4	Assessment on Environmental Characteristics of Organic Paddy and Conventional Paddy by Comparing Their Soil Properties and Water Quality. *Daehan Hwanigyeong Gonghag Hoeji*, **2016**, 38, 504-512	0.6	
3	Application of Lime Stone, Sand, and Zeolite as Reactive Capping Materials for Marine Sediments Contaminated with Organic Matters and Nutrients. *Daehan Hwanigyeong Gonghag Hoeji*, **2017**, 39, 470-477	0.6	
2	Forward Osmosis Based Seawater Desalination using Liquid Fertilizer as Draw Solution. *Journal of the Korean Society of Agricultural Engineers*, **2013**, 55, 21-27		
1	Bacterial adhesion to metal oxide-coated surfaces in the presence of silicic acid. *Water Environment Research*, **2011**, 83, 470-6	2.8	