

Sang Soo Lee

List of Publications by Year in descending order

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93
papers

13,490
citations

36303

51
h-index

42399

92
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93
all docs

93
docs citations

93
times ranked

11568
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar as a sorbent for contaminant management in soil and water: A review. <i>Chemosphere</i> , 2014, 99, 19-33.	8.2	3,175
2	Heavy metals in food crops: Health risks, fate, mechanisms, and management. <i>Environment International</i> , 2019, 125, 365-385.	10.0	1,135
3	Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. <i>Bioresource Technology</i> , 2012, 118, 536-544.	9.6	988
4	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019, 337, 536-554.	5.1	571
5	Solid waste management: Scope and the challenge of sustainability. <i>Journal of Cleaner Production</i> , 2019, 228, 658-678.	9.3	369
6	Trichloroethylene adsorption by pine needle biochars produced at various pyrolysis temperatures. <i>Bioresource Technology</i> , 2013, 143, 615-622.	9.6	319
7	Enhanced sulfamethazine removal by steam-activated invasive plant-derived biochar. <i>Journal of Hazardous Materials</i> , 2015, 290, 43-50.	12.4	299
8	Benefits and limitations of biochar amendment in agricultural soils: A review. <i>Journal of Environmental Management</i> , 2018, 227, 146-154.	7.8	292
9	Effects of soil dilution and amendments (mussel shell, cow bone, and biochar) on Pb availability and phytotoxicity in military shooting range soil. <i>Ecotoxicology and Environmental Safety</i> , 2012, 79, 225-231.	6.0	276
10	Review of nanomaterials as sorbents in solid-phase extraction for environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 347-369.	11.4	240
11	Speciation and phytoavailability of lead and antimony in a small arms range soil amended with mussel shell, cow bone and biochar: EXAFS spectroscopy and chemical extractions. <i>Chemosphere</i> , 2014, 95, 433-441.	8.2	230
12	Biochar-induced changes in soil properties affected immobilization/mobilization of metals/metalloids in contaminated soils. <i>Journal of Soils and Sediments</i> , 2017, 17, 717-730.	3.0	211
13	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018, 332, 100-108.	5.1	206
14	Pyrolysis process of agricultural waste using CO ₂ for waste management, energy recovery, and biochar fabrication. <i>Applied Energy</i> , 2017, 185, 214-222.	10.1	198
15	Effects of rapeseed residue on lead and cadmium availability and uptake by rice plants in heavy metal contaminated paddy soil. <i>Chemosphere</i> , 2011, 85, 677-682.	8.2	191
16	Impacts of biochar application on upland agriculture: A review. <i>Journal of Environmental Management</i> , 2019, 234, 52-64.	7.8	184
17	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. <i>Environmental Earth Sciences</i> , 2010, 61, 1301-1308.	2.7	178
18	Lead and copper immobilization in a shooting range soil using soybean stover- and pine needle-derived biochars: Chemical, microbial and spectroscopic assessments. <i>Journal of Hazardous Materials</i> , 2016, 301, 179-186.	12.4	178

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19	Eggshell and coral wastes as low cost sorbents for the removal of Pb ²⁺ , Cd ²⁺ and Cu ²⁺ from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 198-204.	5.8	167
20	Veterinary antibiotics contamination in water, sediment, and soil near a swine manure composting facility. <i>Environmental Earth Sciences</i> , 2014, 71, 1433-1440.	2.7	159
21	Immobilization of lead in a Korean military shooting range soil using eggshell waste: An integrated mechanistic approach. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 392-401.	12.4	149
22	Distribution and Accumulative Pattern of Tetracyclines and Sulfonamides in Edible Vegetables of Cucumber, Tomato, and Lettuce. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 398-405.	5.2	149
23	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. <i>Journal of Environmental Management</i> , 2016, 166, 131-139.	7.8	144
24	Natural zeolite and its application in concrete composite production. <i>Composites Part B: Engineering</i> , 2019, 165, 354-364.	12.0	137
25	Immobilization of lead in contaminated firing range soil using biochar. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8464-8471.	5.3	122
26	Application of eggshell waste for the immobilization of cadmium and lead in a contaminated soil. <i>Environmental Geochemistry and Health</i> , 2011, 33, 31-39.	3.4	119
27	Invasive plant-derived biochar inhibits sulfamethazine uptake by lettuce in soil. <i>Chemosphere</i> , 2014, 111, 500-504.	8.2	116
28	Molecular mechanisms in phytoremediation of environmental contaminants and prospects of engineered transgenic plants/microbes. <i>Science of the Total Environment</i> , 2020, 705, 135858.	8.0	112
29	Acid-activated biochar increased sulfamethazine retention in soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2175-2186.	5.3	107
30	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018, 187, 131-147.	9.3	105
31	Status, characterization, and potential utilization of municipal solid waste as renewable energy source: Lahore case study in Pakistan. <i>Environment International</i> , 2020, 134, 105291.	10.0	100
32	Soil pollution assessment and identification of hyperaccumulating plants in chromated copper arsenate (CCA) contaminated sites, Korea. <i>Chemosphere</i> , 2012, 87, 872-878.	8.2	98
33	The role of biochar, natural iron oxides, and nanomaterials as soil amendments for immobilizing metals in shooting range soil. <i>Environmental Geochemistry and Health</i> , 2015, 37, 931-942.	3.4	97
34	Heavy metal immobilization in soil near abandoned mines using eggshell waste and rapeseed residue. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1719-1726.	5.3	94
35	Modeling adsorption kinetics of trichloroethylene onto biochars derived from soybean stover and peanut shell wastes. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8364-8373.	5.3	92
36	Spatial distribution of heavy metals in crops in a wastewater irrigated zone and health risk assessment. <i>Environmental Research</i> , 2019, 168, 382-388.	7.5	90

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37	Production and use of biochar from buffalo weed (<i>Ambrosia trifida</i> L.) for trichloroethylene removal from water. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 150-157.	3.2	89
38	Biochar influences soil carbon pools and facilitates interactions with soil: A field investigation. <i>Land Degradation and Development</i> , 2018, 29, 2162-2171.	3.9	89
39	Effects of biochar, cow bone, and eggshell on Pb availability to maize in contaminated soil irrigated with saline water. <i>Environmental Earth Sciences</i> , 2014, 71, 1289-1296.	2.7	88
40	Synergy effects of biochar and polyacrylamide on plants growth and soil erosion control. <i>Environmental Earth Sciences</i> , 2015, 74, 2463-2473.	2.7	82
41	Monitoring of selected veterinary antibiotics in environmental compartments near a composting facility in Gangwon Province, Korea. <i>Environmental Monitoring and Assessment</i> , 2011, 174, 693-701.	2.7	80
42	Effects of Lime-Based Waste Materials on Immobilization and Phytoavailability of Cadmium and Lead in Contaminated Soil. <i>Clean - Soil, Air, Water</i> , 2013, 41, 1235-1241.	1.1	73
43	Carbon and nitrogen mineralization and enzyme activities in soil aggregate-size classes: Effects of biochar, oyster shells, and polymers. <i>Chemosphere</i> , 2018, 198, 40-48.	8.2	73
44	A comparison of figure of merit (FOM) for various materials in adsorptive removal of benzene under ambient temperature and pressure. <i>Environmental Research</i> , 2019, 168, 96-108.	7.5	73
45	Biochars as Potential Adsorbers of CH ₄ , CO ₂ and H ₂ S. <i>Sustainability</i> , 2017, 9, 121.	3.2	68
46	Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. <i>Sustainability</i> , 2017, 9, 266.	3.2	65
47	Ammonium removal using a calcined natural zeolite modified with sodium nitrate. <i>Journal of Hazardous Materials</i> , 2020, 393, 122481.	12.4	65
48	Core-shell structured molecularly imprinted materials for sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116043.	11.4	60
49	In-situ biochar application conserves nutrients while simultaneously mitigating runoff and erosion of an Fe-oxide-enriched tropical soil. <i>Science of the Total Environment</i> , 2018, 619-620, 665-671.	8.0	58
50	An assessment of the utilization of waste resources for the immobilization of Pb and Cu in the soil from a Korean military shooting range. <i>Environmental Earth Sciences</i> , 2012, 67, 1023-1031.	2.7	57
51	Changes of biochemical properties and heavy metal bioavailability in soil treated with natural liming materials. <i>Environmental Earth Sciences</i> , 2013, 70, 3411-3420.	2.7	55
52	Effects of carbon nanotube and biochar on bioavailability of Pb, Cu and Sb in multi-metal contaminated soil. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1409-1420.	3.4	53
53	Steam activation of biochars facilitates kinetics and pH-resilience of sulfamethazine sorption. <i>Journal of Soils and Sediments</i> , 2016, 16, 889-895.	3.0	51
54	Slow pyrolyzed biochars from crop residues for soil metal(loid) immobilization and microbial community abundance in contaminated agricultural soils. <i>Chemosphere</i> , 2017, 177, 157-166.	8.2	50

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55	Effects of natural and calcined poultry waste on Cd, Pb and As mobility in contaminated soil. <i>Environmental Earth Sciences</i> , 2013, 69, 11-20.	2.7	45
56	Carbon dioxide-cofeeding pyrolysis of pine sawdust over nickle-based catalyst for hydrogen production. <i>Energy Conversion and Management</i> , 2019, 201, 112140.	9.2	44
57	Inhibitory Effect of Veterinary Antibiotics on Denitrification in Groundwater: A Microcosm Approach. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	2.1	42
58	Effects of Synthetic Chelators and Low-Molecular-Weight Organic Acids on Chromium, Copper, and Arsenic Uptake and Translocation in Maize (<i>Zea mays</i> L.). <i>Soil Science</i> , 2012, 177, 655-663.	0.9	41
59	Using CO ₂ as an Oxidant in the Catalytic Pyrolysis of Peat Moss from the North Polar Region. <i>Environmental Science & Technology</i> , 2020, 54, 6329-6343.	10.0	40
60	Starch-Mg/Al layered double hydroxide composites as an efficient solid phase extraction sorbent for non-steroidal anti-inflammatory drugs as environmental pollutants. <i>Journal of Hazardous Materials</i> , 2021, 401, 123782.	12.4	38
61	Sorption of Polycyclic Aromatic Hydrocarbons (PAHs) to Lignin: Effects of Hydrophobicity and Temperature. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 84-88.	2.7	37
62	Decontamination of petroleum-contaminated soil via pyrolysis under carbon dioxide atmosphere. <i>Journal of Cleaner Production</i> , 2019, 236, 117724.	9.3	37
63	Assessment of Soil Health in Urban Agriculture: Soil Enzymes and Microbial Properties. <i>Sustainability</i> , 2017, 9, 310.	3.2	34
64	Bioremediation strategies with biochar for polychlorinated biphenyls (PCBs)-contaminated soils: A review. <i>Environmental Research</i> , 2021, 200, 111757.	7.5	31
65	Natural and synthesised iron-rich amendments for As and Pb immobilisation in agricultural soil. <i>Chemistry and Ecology</i> , 2014, 30, 267-279.	1.6	30
66	The Effects of Biochar Amendment on Soil Fertility. <i>SSSA Special Publication Series</i> , 0, , 123-144.	0.2	30
67	CO ₂ to fuel via pyrolysis of banana peel. <i>Chemical Engineering Journal</i> , 2020, 392, 123774.	12.7	29
68	Biochar application strategies for polycyclic aromatic hydrocarbons removal from soils. <i>Environmental Research</i> , 2022, 213, 113599.	7.5	28
69	Using High-Resolution Computed Tomography Analysis To Characterize Soil Surface Seals. <i>Soil Science Society of America Journal</i> , 2008, 72, 1478-1485.	2.2	26
70	Potential toxicity of trace elements and nanomaterials to Chinese cabbage in arsenic- and lead-contaminated soil amended with biochars. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1777-1791.	3.4	24
71	Size fractionated phytomonitoring of airborne particulate matter (PM) and speciation of PM bound toxic metals pollution through <i>Calotropis procera</i> in an urban environment. <i>Ecological Indicators</i> , 2019, 104, 32-40.	6.3	23
72	Sulphamethazine in poultry manure changes carbon and nitrogen mineralisation in soils. <i>Chemistry and Ecology</i> , 2016, 32, 899-918.	1.6	21

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73	Enhancement of soil physical properties and soil water retention with biochar-based soil amendments. <i>Science of the Total Environment</i> , 2022, 836, 155746.	8.0	21
74	Enhanced accessibility of carbon in pyrolysis of brown coal using carbon dioxide. <i>Journal of CO2 Utilization</i> , 2018, 27, 433-440.	6.8	20
75	Enhancement of syngas for H2 production via catalytic pyrolysis of orange peel using CO2 and bauxite residue. <i>Applied Energy</i> , 2019, 254, 113803.	10.1	20
76	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 416, 125968.	12.4	20
77	Efficiency of Poultry Manure Biochar for Stabilization of Metals in Contaminated Soil. <i>Journal of Applied Biological Chemistry</i> , 2015, 58, 39-50.	0.4	20
78	Progress, prospects, and challenges in standardization of sampling and analysis of micro- and nano-plastics in the environment. <i>Journal of Cleaner Production</i> , 2021, 325, 129321.	9.3	20
79	Peat moss-derived biochars as effective sorbents for VOCs™ removal in groundwater. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1637-1646.	3.4	19
80	Leveraging carbon dioxide to control the H2/CO ratio in catalytic pyrolysis of fishing net waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110559.	16.4	18
81	Commercial versus synthesized polymers for soil erosion control and growth of Chinese cabbage. <i>SpringerPlus</i> , 2013, 2, 534.	1.2	17
82	Modeling the impacts of temperature and precipitation changes on soil CO2 fluxes from a Switchgrass stand recently converted from cropland. <i>Journal of Environmental Sciences</i> , 2016, 43, 15-25.	6.1	17
83	Effects of biochar and polyacrylamide on decomposition of soil organic matter and 14C-labeled alfalfa residues. <i>Journal of Soils and Sediments</i> , 2017, 17, 611-620.	3.0	14
84	Effect of Rapeseed Green Manure Amendment on Soil Properties and Rice Productivity. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 751-764.	1.4	13
85	Determining soil quality in urban agricultural regions by soil enzyme-based index. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1531-1544.	3.4	8
86	Analytical Method for Measurement of Tobacco-Specific Nitrosamines in E-Cigarette Liquid and Aerosol. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2699.	2.5	8
87	Monitoring of Selected Veterinary Antibiotics in Animal Carcass Disposal Site and Adjacent Agricultural Soil. <i>Journal of Applied Biological Chemistry</i> , 2014, 57, 189-196.	0.4	7
88	Heavy Metal Stabilization in Soils using Waste Resources - A Critical Review. <i>Journal of Applied Biological Chemistry</i> , 2015, 58, 157-174.	0.4	6
89	Sorption of polycyclic aromatic hydrocarbons (PAHs) by dietary fiber extracted from wheat bran. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 13-17.	2.0	5
90	Effect of enclosure on subsurface water level and sediment yield in the tropical highlands of Ethiopia. <i>Journal of Environmental Management</i> , 2022, 317, 115414.	7.8	4

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91	Rainfall Erosivity Factor of Korean Soils Estimated by Using USLE under Climate Change. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2021, 54, 265-275.	0.9	3
92	Carbonaceous resin capsule for vapor-phase monitoring of volatile hydrocarbons in soil: partitioning and kinetic model verification. Environmental Geochemistry and Health, 2013, 35, 715-725.	3.4	2
93	Efficacy of rapeseed residue and eggshell waste on enzyme activity and soil quality in rice paddy. Chemistry and Ecology, 2013, 29, 501-510.	1.6	2