Jiang-shan Li

List of Publications by Citations

93 papers	2,254 citations	28 h-index	44 g-index
98 ext. papers	3,095 ext. citations	7.6 avg, IF	5.76 L-index

#	Paper	IF	Citations
93	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. *Bioresource Technology*, **2018**, 265, 490-497	11	176
92	Low-carbon and low-alkalinity stabilization/solidification of high-Pb contaminated soil. *Chemical Engineering Journal*, **2018**, 351, 418-427	14.7	128
91	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. *Science of the Total Environment*, **2020**, 707, 136080	10.2	112
90	Corn straw-derived biochar impregnated with α-FeOOH nanorods for highly effective copper removal. *Chemical Engineering Journal*, **2018**, 348, 191-201	14.7	110
89	Arsenic-containing soil from geogenic source in Hong Kong: Leaching characteristics and stabilization/solidification. *Chemosphere*, **2017**, 182, 31-39	8.4	87
88	Fate of arsenic before and after chemical-enhanced washing of an arsenic-containing soil in Hong Kong. *Science of the Total Environment*, **2017**, 599-600, 679-688	10.2	77
87	Green remediation of contaminated sediment by stabilization/solidification with industrial by-products and CO utilization. *Science of the Total Environment*, **2018**, 631-632, 1321-1327	10.2	71
86	Recycling dredged sediment into fill materials, partition blocks, and paving blocks: Technical and economic assessment. *Journal of Cleaner Production*, **2018**, 199, 69-76	10.3	67
85	Phosphorus recovery and leaching of trace elements from incinerated sewage sludge ash (ISSA). *Chemosphere*, **2018**, 193, 278-287	8.4	62
84	Recovery of phosphorus from incinerated sewage sludge ash by combined two-step extraction and selective precipitation. *Chemical Engineering Journal*, **2018**, 348, 74-83	14.7	58
83	Speciation, mobilization, and bioaccessibility of arsenic in geogenic soil profile from Hong Kong. *Environmental Pollution*, **2018**, 232, 375-384	9.3	58
82	Innovative solidification/stabilization of lead contaminated soil using incineration sewage sludge ash. *Chemosphere*, **2017**, 173, 143-152	8.4	56
81	Sustainable reclamation of phosphorus from incinerated sewage sludge ash as value-added struvite by chemical extraction, purification and crystallization. *Journal of Cleaner Production*, **2018**, 181, 717-725	10.3	54
80	Transforming wood waste into water-resistant magnesia-phosphate cement particleboard modified by alumina and red mud. *Journal of Cleaner Production*, **2017**, 168, 452-462	10.3	54
79	Use of Mg/Ca modified biochars to take up phosphorus from acid-extract of incinerated sewage sludge ash (ISSA) for fertilizer application. *Journal of Cleaner Production*, **2020**, 244, 118853	10.3	49
78	Compressive strength and microstructural properties of dry-mixed geopolymer pastes synthesized from GGBS and sewage sludge ash. *Construction and Building Materials*, **2018**, 182, 597-607	6.7	44
77	Characteristics and metal leachability of incinerated sewage sludge ash and air pollution control residues from Hong Kong evaluated by different methods. *Waste Management*, **2017**, 64, 161-170	8.6	43

76	Porous biochar-nanoscale zero-valent iron composites: Synthesis, characterization and application for lead ion removal. *Science of the Total Environment*, **2020**, 746, 141037	10.2	41
75	Change in re-use value of incinerated sewage sludge ash due to chemical extraction of phosphorus. *Waste Management*, **2018**, 74, 404-412	8.6	38
74	Recycling of incinerated sewage sludge ash and cathode ray tube funnel glass in cement mortars. *Journal of Cleaner Production*, **2017**, 152, 142-149	10.3	37
73	Recycling incinerated sewage sludge ash (ISSA) as a cementitious binder by lime activation. *Journal of Cleaner Production*, **2020**, 244, 118856	10.3	35
72	Effects of low-alkalinity binders on stabilization/solidification of geogenic As-containing soils: Spectroscopic investigation and leaching tests. *Science of the Total Environment*, **2018**, 631-632, 1486-1494	10.2	33
71	Investigation of the leaching behavior of lead in stabilized/solidified waste using a two-year semi-dynamic leaching test. *Chemosphere*, **2017**, 166, 1-7	8.4	32
70	Experimental study on anti-seepage grout made of leachate contaminated clay in landfill. *Applied Clay Science*, **2013**, 80-81, 438-442	5.2	30
69	Effect of drying-wetting cycles on leaching behavior of cement solidified lead-contaminated soil. *Chemosphere*, **2014**, 117, 10-3	8.4	29
68	Dynamic behavior of asphalt pavement structure under temperature-stress coupled loading. *Applied Thermal Engineering*, **2013**, 53, 1-7	5.8	28
67	Influence of leachate pollution on mechanical properties of compacted clay: A case study on behaviors and mechanisms. *Engineering Geology*, **2013**, 167, 128-133	6	28
66	Bacterial-induced mineralization (BIM) for soil solidification and heavy metal stabilization: A critical review. *Science of the Total Environment*, **2020**, 746, 140967	10.2	28
65	Effect of lead (II) on the mechanical behavior and microstructure development of a Chinese clay. *Applied Clay Science*, **2015**, 105-106, 192-199	5.2	25
64	Using incinerated sewage sludge ash as a high-performance adsorbent for lead removal from aqueous solutions: Performances and mechanisms. *Chemosphere*, **2019**, 226, 587-596	8.4	22
63	Sludge biochar as a green additive in cement-based composites: Mechanical properties and hydration kinetics. *Construction and Building Materials*, **2020**, 262, 120723	6.7	22
62	Recycling of incinerated sewage sludge ash as an adsorbent for heavy metals removal from aqueous solutions. *Journal of Environmental Management*, **2019**, 247, 509-517	7.9	21
61	Highly enhanced degradation of organic pollutants in hematite/sulfite/photo system. *Chemical Engineering Journal*, **2020**, 386, 124007	14.7	21
60	Sustainable advances on phosphorus utilization in soil via addition of biochar and humic substances. *Science of the Total Environment*, **2021**, 768, 145106	10.2	21
59	Feasibility of wet-extraction of phosphorus from incinerated sewage sludge ash (ISSA) for phosphate fertilizer production: A critical review. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 939-971	11.1	21

58	Effects of pH on leaching behavior of compacted cement solidified/stabilized lead contaminated soil. *Environmental Progress and Sustainable Energy*, **2016**, 35, 149-155	2.5	20
57	Fate of metals before and after chemical extraction of incinerated sewage sludge ash. *Chemosphere*, **2017**, 186, 350-359	8.4	19
56	Structure and properties of vanadium-doped □MnO2 and enhanced Pb2+ adsorption phenol/photocatalytic degradation. *Materials Chemistry and Physics*, **2018**, 208, 258-267	4.4	17
55	Solidification/stabilization of lead-contaminated soil using cement and waste phosphorus slag. *Environmental Progress and Sustainable Energy*, **2015**, 34, 957-963	2.5	17
54	Removal of Heavy Metals from Landfill Leachate Using Municipal Solid Waste Incineration Fly Ash as Adsorbent. *Clean - Soil, Air, Water*, **2014**, 42, 1626-1631	1.6	17
53	Improved photocatalytic nitrogen oxides removal using recycled glass-nano-TiO2 composites with NaOH pre-treatment. *Journal of Cleaner Production*, **2019**, 209, 1095-1104	10.3	17
52	Sewage sludge ash: A comparative evaluation with fly ash for potential use as lime-pozzolan binders. *Construction and Building Materials*, **2020**, 242, 118160	6.7	16
51	Comparison of solidification/stabilization of lead contaminated soil between magnesia□phosphate cement and ordinary portland cement under the same dosage. *Environmental Progress and Sustainable Energy*, **2016**, 35, 88-94	2.5	15
50	Investigation of cold bonded lightweight aggregates produced with incineration sewage sludge ash (ISSA) and cementitious waste. *Journal of Cleaner Production*, **2020**, 251, 119709	10.3	15
49	Sustainable stabilization/solidification of arsenic-containing soil by blast slag and cement blends. *Chemosphere*, **2021**, 271, 129868	8.4	15
48	Recycling hazardous textile effluent sludge in cement-based construction materials: Physicochemical interactions between sludge and cement. *Journal of Hazardous Materials*, **2020**, 381, 121034	12.8	14
47	Effect of Compaction Degree on Solidification Characteristics of Pb-Contaminated Soil Treated by Cement. *Clean - Soil, Air, Water*, **2014**, 42, 1126-1132	1.6	13
46	Factors affecting the leaching behaviors of magnesium phosphate cement-stabilized/solidified Pb-contaminated soil, part II: Dosage and curing age. *Environmental Progress and Sustainable Energy* , **2017**, 36, 1351-1357	2.5	12
45	Effects of Mn average oxidation state on the oxidation behaviors of As(III) and Cr(III) by vernadite. *Applied Geochemistry*, **2018**, 94, 35-45	3.5	12
44	Development of a Novel Binder Using Lime and Incinerated Sewage Sludge Ash to Stabilize and Solidify Contaminated Marine Sediments with High Water Content as a Fill Material. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019245	3	12
43	Dynamic leaching behavior of geogenic As in soils after cement-based stabilization/solidification. *Environmental Science and Pollution Research*, **2017**, 24, 27822-27832	5.1	12
42	Production of lightweight aggregate ceramsite from red mud and municipal solid waste incineration bottom ash: Mechanism and optimization. *Construction and Building Materials*, **2021**, 287, 122993	6.7	12
41	Effect of ferrous sulfate dosage and soil particle size on leachability and species distribution of chromium in hexavalent chromium-contaminated soil stabilized by ferrous sulfate. *Environmental Progress and Sustainable Energy*, **2019**, 38, 500-507	2.5	12

40	Three-dimensional spatial variability of arsenic-containing soil from geogenic source in Hong Kong: Implications on sampling strategies. *Science of the Total Environment*, **2018**, 633, 836-847	10.2	11
39	Precipitates in landfill leachate mediated by dissolved organic matters. *Journal of Hazardous Materials*, **2015**, 287, 278-86	12.8	10
38	Geoenvironmental properties of industrially contaminated site soil solidified/stabilized with a sustainable by-product-based binder. *Science of the Total Environment*, **2021**, 765, 142778	10.2	10
37	Recycling sediment, calcium carbide slag and ground granulated blast-furnace slag into novel and sustainable cementitious binder for production of eco-friendly mortar. *Construction and Building Materials*, **2021**, 305, 124772	6.7	10
36	Hydraulic conductivity characteristics of carbonated reactive magnesia-treated silt. *Bulletin of Engineering Geology and the Environment*, **2020**, 79, 3033-3047	4	9
35	Use of self-hardening slurry for trench cutoff wall: A review. *Construction and Building Materials*, **2021**, 286, 122959	6.7	9
34	Enhanced washing for Cr(VI) removal from contaminated soil using EDTA and microwave radiation. *Environmental Earth Sciences*, **2015**, 74, 2167-2172	2.9	7
33	Properties of sustainable cellular concrete prepared with environment-friendly capsule aggregates. *Journal of Cleaner Production*, **2020**, 267, 122018	10.3	7
32	Use of thermally modified waste concrete powder for removal of Pb (II) from wastewater: Effects and mechanism. *Environmental Pollution*, **2021**, 277, 116776	9.3	7
31	Novel recycling of incinerated sewage sludge ash (ISSA) and waste bentonite as ceramsite for Pb-containing wastewater treatment: Performance and mechanism. *Journal of Environmental Management*, **2021**, 288, 112382	7.9	7
30	Evaluation of leaching characteristics of heavy metals from municipal solid waste incineration fly ash by up-flow percolation column tests. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	7
29	Arsenate(V) removal from aqueous system by using modified incinerated sewage sludge ash (ISSA) as a novel adsorbent. *Chemosphere*, **2021**, 270, 129423	8.4	6
28	Using MgO activated slag and calcium bentonite slurry to produce a novel vertical barrier material: Performances and mechanisms. *Construction and Building Materials*, **2021**, 291, 123365	6.7	6
27	Experimental study on the microstructure and mechanical behaviors of leachate-polluted compacted clay. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	5
26	Compound stabilization/solidification of MSWI fly ash with trimercapto-s-triazine and cement. *Water Science and Technology*, **2012**, 66, 689-94	2.2	5
25	Coupling model of aerobic waste degradation considering temperature, initial moisture content and air injection volume. *Waste Management and Research*, **2018**, 36, 277-287	4	4
24	Leaching characteristics of chlorine from municipal solid waste incineration fly ash by up-flow percolation column tests. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	4
23	Engineering and microstructure properties of contaminated marine sediments solidified by high content of incinerated sewage sludge ash. *Journal of Rock Mechanics and Geotechnical Engineering*, **2020**,	5.3	4

22	Alkaline modification of the acid residue of incinerated sewage sludge ash after phosphorus recovery for heavy metal removal from aqueous solutions. *Waste Management*, **2021**, 123, 80-87	8.6	4
21	Utilization of glass cullet to enhance the performance of recycled aggregate unbound sub-base. *Journal of Cleaner Production*, **2021**, 288, 125083	10.3	4
20	Novel recycling of phosphorus-recovered incinerated sewage sludge ash residues by co-pyrolysis with lignin for reductive/sorptive removal of hexavalent chromium from aqueous solutions. *Chemosphere*, **2021**, 285, 131434	8.4	4
19	Novel microcapsules for internal curing of high-performance cementitious system. *Scientific Reports*, **2020**, 10, 8318	4.9	3
18	Sewage sludge ash-incorporated stabilisation/solidification for recycling and remediation of marine sediments. *Journal of Environmental Management*, **2022**, 301, 113877	7.9	3
17	Influence of seawater on the mechanical and microstructural properties of lime-incineration sewage sludge ash pastes. *Construction and Building Materials*, **2021**, 278, 122364	6.7	3
16	Enzymatically induced phosphate precipitation (EIPP) for stabilization/solidification (S/S) treatment of heavy metal tailings. *Construction and Building Materials*, **2022**, 314, 125577	6.7	2
15	Using hazardous barium slag as a novel admixture for alkali activated slag cement. *Cement and Concrete Composites*, **2022**, 125, 104332	8.6	2
14	Manufacturing and performance of environment-friendly lightweight aggregates with core-shell structure. *Journal of Cleaner Production*, **2020**, 276, 123157	10.3	2
13	Effect of NaCl and MgCl2 on the hydration of lime-pozzolan blend by recycling sewage sludge ash. *Journal of Cleaner Production*, **2021**, 313, 127759	10.3	2
12	Immobilization of high-Pb contaminated soil by oxalic acid activated incinerated sewage sludge ash. *Environmental Pollution*, **2021**, 284, 117120	9.3	2
11	Immobilization and recycling of contaminated marine sediments in cement-based materials incorporating iron-biochar composites.. *Journal of Hazardous Materials*, **2022**, 435, 128971	12.8	2
10	Deep insight on mechanism and contribution of As(V) removal by thermal modification waste concrete powder. *Science of the Total Environment*, **2022**, 807, 150764	10.2	1
9	Field investigation of shallow soft-soil highway subgrade treated by mass carbonation technology. *Canadian Geotechnical Journal*, **2021**, 58, 97-113	3.2	1
8	Hydration, mechanical properties and microstructure of lime-pozzolana pastes by recycling waste sludge ash under marine environment. *Journal of Cleaner Production*, **2021**, 310, 127441	10.3	1
7	Freezing-thawing performance of reactive MgO-admixed silty clay subjected to forced carbonation. *Cold Regions Science and Technology*, **2021**, 189, 103330	3.8	1
6	New methods for quantification of Fenton's reagent addition based on aged sludge indicators to improve filterability. *Journal of Hazardous Materials*, **2021**, 418, 126254	12.8	1
5	Leaching Behavior and Mechanism of S/S-Treated Pb-Contaminated Soil Under Erosive Environment. *Springer Theses*, **2019**, 131-156	0.1	0

4	Design optimization and characterization of a green product by combined geopolymerization of sewage sludge ash with metakaolin. *Applied Clay Science*, **2021**, 214, 106271	5.2	0
3	Recycling of phosphogypsum and red mud in low carbon and green cementitious materials for vertical barrier.. *Science of the Total Environment*, **2022**, 155925	10.2	0
2	Phosphorus (P) recovery and reuse as fertilizer from incinerated sewage sludge ash (ISSA) **2020**, 263-288		
1	Sustainable utilization of incinerated sewage sludge ash **2022**, 211-225		