Shan-Li Wang

List of Publications by Year
in descending order

99 papers	4,434 citations	66234 42 h-index	114278 63 g-index
101 all docs	101 docs citations	101 times ranked	5124 citing authors

#	Article	IF	Citations
1	Soil and maize contamination by trace elements and associated health risk assessment in the industrial area of Volos, Greece. Environment International, 2019, 124, 79-88.	4.8	167
2	Reduction of Cr(VI) by Crop-Residue-Derived Black Carbon. Environmental Science & Technology, 2009, 43, 8801-8806.	4.6	165
3	Removal of hexavalent Cr by coconut coir and derived chars â€“ The effect of surface functionality. Bioresource Technology, 2012, 104, 165-172.	4.8	150
4	Arsenate adsorption by Mg/Alâ€“NO3 layered double hydroxides with varying the Mg/Al ratio. Applied Clay Science, 2009, 43, 79-85.	2.6	145
5	Differential expression and regulation of ironâ€regulated metal transporters in Arabidopsis halleri and Arabidopsis thaliana â€“ the role in zinc tolerance. New Phytologist, 2011, 190, 125-137.	3.5	127
6	Fe²⁺/HClO Reaction Produces Fe^{IV}O²⁺: An Enhanced Advanced Oxidation Process. Environmental Science & Technology, 2020, 54, 6406-6414.	4.6	121
7	Cr(VI) Removal on Fungal Biomass of Neurospora crassa: the Importance of Dissolved Organic Carbons Derived from the Biomass to Cr(VI) Reduction. Environmental Science & Technology, 2010, 44, 6202-6208.	4.6	115
8	In situ XRD and ATR-FTIR study on the molecular orientation of interlayer nitrate in Mg/Al-layered double hydroxides in water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 131-138.	2.3	97
9	Hydration, expansion, structure, and dynamics of layered double hydroxides. American Mineralogist, 2003, 88, 167-179.	0.9	91
10	XANES Determination of Adsorbed Phosphate Distribution between Ferrihydrite and Boehmite in Mixtures. Soil Science Society of America Journal, 2004, 68, 460-469.	1.2	91
11	Biosorption of Cr(VI) by coconut coir: Spectroscopic investigation on the reaction mechanism of Cr(VI) with lignocellulosic material. Journal of Hazardous Materials, 2010, 179, 160-165.	6.5	87
12	Removal of 3-chlorophenol from water using rice-straw-based carbon. Journal of Hazardous Materials, 2007, 147, 313-318.	6.5	86
13	Removal of hexavalent chromium from acidic aqueous solutions using rice straw-derived carbon. Journal of Hazardous Materials, 2009, 171, 1066-1070.	6.5	84
14	Arsenic contamination in abandoned and active gold mine spoils in Ghana: Geochemical fractionation, speciation, and assessment of the potential human health risk. Environmental Pollution, 2020, 261, 114116.	3.7	80
15	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. Science of the Total Environment, 2019, 672, 572-582.	3.9	79
16	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). Environmental Pollution, 2020, 262, 114312.	3.7	77
17	Photocatalytic Reduction of Cr(VI) in the Presence of NO₃⁻ and Cl⁻ Electrolytes as Influenced by Fe(III). Environmental Science & Technology, 2007, 41, 7907-7914.	4.6	76
18	Adsorption of 2,4-D on Mg/Alâ€“NO3 layered double hydroxides with varying layer charge density. Applied Clay Science, 2008, 40, 193-200.	2.6	76

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19	Water-vapor adsorption and surface area measurement of poorly crystalline boehmite. Journal of Colloid and Interface Science, 2003, 260, 26-35.	5.0	73
20	Assignment of the structural OH stretching bands of gibbsite. American Mineralogist, 2000, 85, 739-744.	0.9	71
21	Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. Chemosphere, 2019, 216, 463-471.	4.2	71
22	Release dynamics of As, Co, and Mo in a biochar treated soil under pre-definite redox conditions. Science of the Total Environment, 2019, 657, 686-695.	3.9	69
23	The removal and recovery of Cr(VI) by Li/Al layered double hydroxide (LDH). Journal of Hazardous Materials, 2007, 142, 242-249.	6.5	68
24	Effects of rice straw ash amendment on Cu solubility and distribution in flooded rice paddy soils. Journal of Hazardous Materials, 2011, 186, 1801-1807.	6.5	68
25	Arsenate adsorption from water using a novel fabricated copper ferrite. Chemical Engineering Journal, 2012, 198-199, 440-448.	6.6	67
26	Measuring the surface area of aluminum hydroxide adjuvant. Journal of Pharmaceutical Sciences, 2002, 91, 1702-1706.	1.6	65
27	Chromate reduction by zero-valent Al metal as catalyzed by polyoxometalate. Water Research, 2009, 43, 5015-5022.	5.3	65
28	Phosphate removal from water using lithium intercalated gibbsite. Journal of Hazardous Materials, 2007, 147, 205-212.	6.5	63
29	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. Environment International, 2020, 135, 105376.	4.8	63
30	Treatment of complex heavy metal wastewater using a multi-staged ferrite process. Journal of Hazardous Materials, 2012, 209-210, 379-384.	6.5	61
31	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. Environment International, 2021, 156, 106638.	4.8	61
32	Biochar amendment immobilizes lead in rice paddy soils and reduces its phytoavailability. Scientific Reports, 2016, 6, 31616.	1.6	59
33	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. Journal of Hazardous Materials, 2020, 389, 122117.	6.5	57
34	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. Journal of Hazardous Materials, 2022, 422, 126808.	6.5	57
35	Adsorption and thermal desorption of Cr(VI) on Li/Al layered double hydroxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 277, 8-14.	2.3	54
36	Rapid and efficient removal/recovery of molybdenum onto ZnFe2O4 nanoparticles. Chemosphere, 2016, 148, 452-458.	4.2	51

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37	Chromate reduction on humic acid derived from a peat soil â€“ Exploration of the activated sites on HAs for chromate removal. Chemosphere, 2012, 87, 587-594.	4.2	50
38	Reaction mechanism of hexavalent chromium with cellulose. Chemical Engineering Journal, 2011, 174, 289-295.	6.6	48
39	Dynamics of cadmium concentration in contaminated rice paddy soils with submerging time. Paddy and Water Environment, 2013, 11, 483-491.	1.0	48
40	Photolysis and photocatalytic decomposition of sulfamethazine antibiotics in an aqueous solution with TiO₂. RSC Advances, 2016, 6, 69301-69310.	1.7	48
41	Novel pressure-induced phase transformations in hydrous layered materials. Geophysical Research Letters, 2002, 29, 17-1-17-4.	1.5	47
42	Adsorption behavior of As(III) onto a copper ferrite generated from printed circuit board industry. Chemical Engineering Journal, 2013, 225, 433-439.	6.6	45
43	Mobilization, Methylation, and Demethylation of Mercury in a Paddy Soil Under Systematic Redox Changes. Environmental Science & Technology, 2021, 55, 10133-10141.	4.6	44
44	Deintercalation of Li/Al LDH and its application to recover adsorbed chromate from used adsorbent. Applied Clay Science, 2007, 37, 107-114.	2.6	43
45	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. Geoderma, 2019, 350, 52-60.	2.3	43
46	A mechanism study of light-induced Cr(VI) reduction in an acidic solution. Journal of Hazardous Materials, 2009, 164, 223-228.	6.5	41
47	Rapid Estimation of Cationâ€Exchange Capacities of Soils and Clays with Methylene Blue Exchange. Soil Science Society of America Journal, 1996, 60, 138-141.	1.2	39
48	Effect of temperatures on formation and transformation of hydrolytic aluminum in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 231, 143-157.	2.3	39
49	Chromium(VI) reactions of polysaccharide biopolymers. Chemical Engineering Journal, 2012, 181-182, 479-485.	6.6	38
50	Synthesis of Li/Al LDH using aluminum and LiOH. Applied Clay Science, 2013, 72, 191-195.	2.6	37
51	Preferential adsorption of 2,4-dichlorophenoxyacetate from associated binary-solute aqueous systems by Mg/Al-NO3 layered double hydroxides with different nitrate orientations. Journal of Hazardous Materials, 2009, 165, 846-852.	6.5	36
52	Simultaneous and continuous stabilization of As and Pb in contaminated solution and soil by a ferrihydrite-gypsum sorbent. Journal of Hazardous Materials, 2017, 327, 171-179.	6.5	36
53	Effect of citric acid on aluminum hydrolytic speciation. Water Research, 2005, 39, 3457-3466.	5.3	35
54	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. Journal of Hazardous Materials, 2022, 421, 126647.	6.5	32

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55	Soil acidification enhances the mobilization of phosphorus under anoxic conditions in an agricultural soil: Investigating the potential for loss of phosphorus to water and the associated environmental risk. Science of the Total Environment, 2021, 793, 148531.	3.9	31
56	Removal of 2,4,6-trichlorophenol from a solution by humic acids repeatedly extracted from a peat soil. Journal of Hazardous Materials, 2008, 152, 812-819.	6.5	30
57	The adsorption and catalytic transformations of chromium on Mn substituted goethite. Applied Catalysis B: Environmental, 2007, 75, 272-280.	10.8	29
58	Removal of sulfamethazine antibiotics using cow manure-based carbon adsorbents. International Journal of Environmental Science and Technology, 2016, 13, 973-984.	1.8	28
59	Fluorescent light induced Cr(VI) reduction by citrate in the presence of TiO2 and ferric ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 253, 15-22.	2.3	23
60	Effect of Gallium Exposure in Arabidopsis thaliana is Similar to Aluminum Stress. Environmental Science & Technology, 2017, 51, 1241-1248.	4.6	22
61	Copper and zinc in vineyard and orchard soils at millimeter vertical resolution. Science of the Total Environment, 2019, 689, 958-962.	3.9	22
62	Assessment of indium toxicity to the model plant Arabidopsis. Journal of Hazardous Materials, 2020, 387, 121983.	6.5	20
63	Speciation and sorption of phosphorus in agricultural soil profiles of redoximorphic character. Environmental Geochemistry and Health, 2020, 42, 3231-3246.	1.8	20
64	Hazardous enrichment of toxic elements in soils and olives in the urban zone of Lavrio, Greece, a legacy, millennia-old silver/lead mining area and related health risk assessment. Journal of Hazardous Materials, 2022, 434, 128906.	6.5	20
65	MS title: Catalytic oxidation and removal of arsenite in the presence of Fe ions and zero-valent Al metals. Journal of Hazardous Materials, 2016, 317, 237-245.	6.5	18
66	Anoxic oxidation of As(III) during Fe(II)-induced goethite recrystallization: Evidence and importance of Fe(IV) intermediate. Journal of Hazardous Materials, 2022, 421, 126806.	6.5	18
67	Chromate removal as influenced by the structural changes of soil components upon carbonization at different temperatures. Environmental Pollution, 2012, 162, 151-158.	3.7	17
68	XANES evidence of arsenate removal from water with magnetic ferrite. Journal of Environmental Management, 2013, 120, 114-119.	3.8	17
69	In vivo evidence of intestinal lead dissolution from lead dioxide (PbO₂) nanoparticles and resulting bioaccumulation and toxicity in medaka fish. Environmental Science: Nano, 2019, 6, 580-591.	2.2	17
70	Redox-induced mobilization of phosphorus in groundwater affected arable soil profiles. Chemosphere, 2021, 275, 129928.	4.2	17
71	Indium Uptake and Accumulation by Rice and Wheat and Health Risk Associated with Their Consumption. Environmental Science & Technology, 2020, 54, 14946-14954.	4.6	16
72	Stepwise redox changes alter the speciation and mobilization of phosphorus in hydromorphic soils. Chemosphere, 2022, 288, 132652.	4.2	16

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73	Effects of long-term paddy rice cultivation on soil arsenic speciation. Journal of Environmental Management, 2020, 254, 109768.	3.8	14
74	Evaluating vanadium bioavailability to cabbage in rural soils using geochemical and micro-spectroscopic techniques. Environmental Pollution, 2020, 258, 113699.	3.7	14
75	Sorption and speciation of molybdate in soils: Implications for molybdenum mobility and availability. Journal of Hazardous Materials, 2021, 408, 124934.	6.5	14
76	Enhanced chlorophenol sorption of soils by rice-straw-ash amendment. Journal of Hazardous Materials, 2010, 177, 692-696.	6.5	13
77	Interactions of the products of oxidative polymerization of hydroquinone as catalyzed by birnessite with Fe (hydr)oxides â€“ an implication of the reactive pathway for humic substance formation. RSC Advances, 2016, 6, 20750-20760.	1.7	13
78	Effects of Poultry-Litter Biochar on Soil Properties and Growth of Water Spinach (Ipomoea aquatica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	13
79	Boron incorporation into precipitated calcium carbonates affected by aqueous pH and boron concentration. Journal of Hazardous Materials, 2020, 383, 121183.	6.5	13
80	Photo-enhancement of Cr(VI) reduction by fungal biomass of Neurospora crassa. Applied Catalysis B: Environmental, 2009, 92, 294-300.	10.8	12
81	Enhanced Immobilization of Cr(VI) in Soils by the Amendment of Rice Straw Char. Soil and Sediment Contamination, 2016, 25, 505-518.	1.1	12
82	Influences of preparative methods of humic acids on the sorption of 2,4,6-trichlorophenol. Chemosphere, 2008, 70, 1218-1227.	4.2	11
83	Effects of rice straw ash amendment on Cd solubility and distribution in a contaminated paddy soil under submergence. Paddy and Water Environment, 2015, 13, 135-143.	1.0	11
84	Cr K-edge X-ray absorption and FTIR spectroscopic study on the reaction mechanisms of Cr(III) and Cr(VI) with lignin. Desalination and Water Treatment, 2016, 57, 21598-21609.	1.0	11
85	Adsorption and desorption of Thallium(I) in soils: The predominant contribution by clay minerals. Applied Clay Science, 2021, 205, 106063.	2.6	11
86	Synthesis of Li/Al layered double hydroxide-guest composites under mild acid conditions. Clay Minerals, 2004, 39, 115-121.	0.2	9
87	Bacterial networks mediate pentachlorophenol dechlorination across land-use types with citrate addition. Journal of Hazardous Materials, 2020, 384, 121295.	6.5	9
88	Microscale Heterogeneous Distribution and Speciation of Phosphorus in Soils Amended with Mineral Fertilizer and Cattle Manure Compost. Minerals (Basel, Switzerland), 2021, 11, 121.	0.8	9
89	Physicochemical and biological interfacial interactions: impacts on soil ecosystem and biodiversity. Environmental Earth Sciences, 2013, 68, 2199-2209.	1.3	8
90	Reducing conditions increased the mobilisation and hazardous effects of arsenic in a highly contaminated gold mine spoil. Journal of Hazardous Materials, 2022, 436, 129238.	6.5	7

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91	Fe(II)/Cu(II) interaction on goethite stimulated by an iron-reducing bacteria Aeromonas Hydrophila HS01 under anaerobic conditions. Chemosphere, 2017, 187, 43-51.	4.2	6
92	New insight in adsorption of Sb(III)/Sb(V) from waters using magnetic nanoferrites: X-ray absorption spectroscopy investigation. Journal of Molecular Liquids, 2021, 330, 115691.	2.3	6
93	Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars. Chemosphere, 2022, 301, 134590.	4.2	6
94	Adsorptions of Cd(II) and Pb(II) in aqueous solution by rice-straw char. Desalination and Water Treatment, 2016, 57, 21619-21626.	1.0	5
95	Soil gallium speciation and resultingÂgallium uptake by rice plants. Journal of Hazardous Materials, 2022, 424, 127582.	6.5	5
96	Evolution of As speciation with depth in a soil profile with a geothermal As origin. Chemosphere, 2020, 241, 124956.	4.2	4
97	Thermally induced changes in solubility and speciation of lead and iron minerals in a contaminated soil. Soil Science Society of America Journal, 2020, 84, 1846-1853.	1.2	4
98	The influence of Si(iv) on the reactivity of [î€,Fe(iii)]/[î€,Fe(ii)] couples for 2-nitrophenol reduction in Î³-Al2O3 suspensions. RSC Advances, 2018, 8, 7465-7472.	1.7	1
99	Macroscale and X-ray Absorption Spectroscopic Studies of Soil Nickel Speciation. , 2018, , 217-242.		0