Lizhong Zhu

List of Publications by Citations

239 papers	14,663 citations	62 h-index	113 g-index
246 ext. papers	16,672 ext. citations	8.9 avg, IF	7.2 L-index

#	Paper	IF	Citations
239	Transitional adsorption and partition of nonpolar and polar aromatic contaminants by biochars of pine needles with different pyrolytic temperatures. *Environmental Science & Technology*, **2008**, 42, 5137-43	10.3	1163
238	Adsorption of polycyclic aromatic hydrocarbons by carbon nanomaterials. *Environmental Science & Technology*, **2006**, 40, 1855-61	10.3	649
237	Toxicity of ZnO nanoparticles to Escherichia coli: mechanism and the influence of medium components. *Environmental Science & Technology*, **2011**, 45, 1977-83	10.3	555
236	Effects and mechanisms of biochar-microbe interactions in soil improvement and pollution remediation: A review. *Environmental Pollution*, **2017**, 227, 98-115	9.3	381
235	Insight into Multiple and Multilevel Structures of Biochars and Their Potential Environmental Applications: A Critical Review. *Environmental Science & Technology*, **2018**, 52, 5027-5047	10.3	349
234	Plant uptake, accumulation and translocation of phenanthrene and pyrene in soils. *Chemosphere*, **2004**, 55, 1169-78	8.4	349
233	Aqueous adsorption of aniline, phenol, and their substitutes by multi-walled carbon nanotubes. *Environmental Science & Technology*, **2008**, 42, 7931-6	10.3	333
232	Transformation, morphology, and dissolution of silicon and carbon in rice straw-derived biochars under different pyrolytic temperatures. *Environmental Science & Technology*, **2014**, 48, 3411-9	10.3	276
231	Competitive sorption of pyrene, phenanthrene, and naphthalene on multiwalled carbon nanotubes. *Environmental Science & Technology*, **2006**, 40, 5804-10	10.3	257
230	Distribution of organochlorine pesticides in surface water and sediments from Qiantang River, East China. *Journal of Hazardous Materials*, **2006**, 137, 68-75	12.8	216
229	Distributions of polycyclic aromatic hydrocarbons in surface waters, sediments and soils of Hangzhou City, China. *Water Research*, **2004**, 38, 3558-68	12.5	216
228	Quantification of chemical states, dissociation constants and contents of oxygen-containing groups on the surface of biochars produced at different temperatures. *Environmental Science & Technology*, **2015**, 49, 309-17	10.3	205
227	Sorption of polar and nonpolar aromatic organic contaminants by plant cuticular materials: role of polarity and accessibility. *Environmental Science & Technology*, **2005**, 39, 6138-46	10.3	195
226	Sorption of Phenol, p-Nitrophenol, and Aniline to Dual-Cation Organobentonites from Water. *Environmental Science & Technology*, **2000**, 34, 468-475	10.3	191
225	Nanoparticle interactions with co-existing contaminants: joint toxicity, bioaccumulation and risk. *Nanotoxicology*, **2017**, 11, 591-612	5.3	172
224	Synergistic solubilization of polycyclic aromatic hydrocarbons by mixed anionic-nonionic surfactants. *Chemosphere*, **2003**, 53, 459-67	8.4	169
223	Effects of water chemistry on the dissolution of ZnO nanoparticles and their toxicity to Escherichia coli. *Environmental Pollution*, **2013**, 173, 97-102	9.3	164

222	Organic contamination and remediation in the agricultural soils of China: A critical review. *Science of the Total Environment*, **2018**, 615, 724-740	10.2	152
221	Heterogeneous UV-Fenton catalytic degradation of dyestuff in water with hydroxyl-Fe pillared bentonite. *Catalysis Today*, **2007**, 126, 463-470	5.3	151
220	Characterization of organic phases in the interlayer of montmorillonite using FTIR and 13C NMR. *Journal of Colloid and Interface Science*, **2005**, 286, 239-44	9.3	149
219	Sources and patterns of polycyclic aromatic hydrocarbons pollution in kitchen air, China. *Chemosphere*, **2003**, 50, 611-8	8.4	146
218	Adsorption behaviors of volatile organic compounds (VOCs) on porous clay heterostructures (PCH). *Journal of Hazardous Materials*, **2009**, 170, 7-12	12.8	145
217	Enhanced soil washing of phenanthrene by mixed solutions of TX100 and SDBS. *Environmental Science & Technology*, **2006**, 40, 4274-80	10.3	143
216	Polycyclic aromatic hydrocarbons (PAHs) in indoor and outdoor air of Hangzhou, China. *Environmental Science & Technology*, **2001**, 35, 840-4	10.3	132
215	Sorption Behavior of -Nitrophenol on the Interface between Anion-Cation Organobentonite and Water.. *Environmental Science & Technology*, **2000**, 34, 2997-3002	10.3	128
214	Use of Cetyltrimethylammonium Bromide-Bentonite To Remove Organic Contaminants of Varying Polar Character from Water. *Environmental Science & Technology*, **1998**, 32, 3374-3378	10.3	126
213	Interactions of organic contaminants with mineral-adsorbed surfactants. *Environmental Science & Technology*, **2003**, 37, 4001-6	10.3	124
212	Biochar alters microbial community and carbon sequestration potential across different soil pH. *Science of the Total Environment*, **2018**, 622-623, 1391-1399	10.2	122
211	Concentrations and health risk of polycyclic aromatic hydrocarbons in tea. *Food and Chemical Toxicology*, **2005**, 43, 41-8	4.7	120
210	Sorption of Organobentonites to Some Organic Pollutants in Water. *Environmental Science & Technology*, **1997**, 31, 1407-1410	10.3	119
209	Configurations of the bentonite-sorbed myristylpyridinium cation and their influences on the uptake of organic compounds. *Environmental Science & Technology*, **2005**, 39, 6093-100	10.3	119
208	Solubilization and biodegradation of phenanthrene in mixed anionic-nonionic surfactant solutions. *Chemosphere*, **2005**, 58, 33-40	8.4	107
207	Contamination of phthalate esters, organochlorine pesticides and polybrominated diphenyl ethers in agricultural soils from the Yangtze River Delta of China. *Science of the Total Environment*, **2016**, 544, 670-6	10.2	106
206	Comparative study on indoor air quality in Japan and China: Characteristics of residential indoor and outdoor VOCs. *Atmospheric Environment*, **2009**, 43, 6352-6359	5.3	105
205	Efficiency of surfactant-enhanced desorption for contaminated soils depending on the component characteristics of soil-surfactant--PAHs system. *Environmental Pollution*, **2007**, 147, 66-73	9.3	105

204	Metabolomics analysis of TiO nanoparticles induced toxicological effects on rice (Oryza sativa L.). *Environmental Pollution*, **2017**, 230, 302-310	9.3	104
203	Characterization and distribution of polycyclic aromatic hydrocarbon in surface water and sediment from Qiantang River, China. *Journal of Hazardous Materials*, **2007**, 141, 148-55	12.8	97
202	Simultaneous removal of phenanthrene and cadmium from contaminated soils by saponin, a plant-derived biosurfactant. *Environmental Pollution*, **2008**, 156, 1368-70	9.3	94
201	Enhanced desorption and biodegradation of phenanthrene in soil-water systems with the presence of anionic-nonionic mixed surfactants. *Journal of Hazardous Materials*, **2007**, 142, 354-61	12.8	94
200	Pollution level, phase distribution and source analysis of polycyclic aromatic hydrocarbons in residential air in Hangzhou, China. *Journal of Hazardous Materials*, **2009**, 162, 1165-70	12.8	93
199	Pollution level, phase distribution and health risk of polycyclic aromatic hydrocarbons in indoor air at public places of Hangzhou, China. *Environmental Pollution*, **2008**, 152, 569-75	9.3	92
198	Current status and temporal trend of heavy metals in farmland soil of the Yangtze River Delta Region: Field survey and meta-analysis. *Environmental Pollution*, **2016**, 219, 329-336	9.3	89
197	Influences and mechanisms of surfactants on pyrene biodegradation based on interactions of surfactant with a Klebsiella oxytoca strain. *Bioresource Technology*, **2013**, 142, 454-61	11	88
196	Synergetic effect of a pillared bentonite support on SE(VI) removal by nanoscale zero valent iron. *Applied Catalysis B: Environmental*, **2015**, 174-175, 329-335	21.8	86
195	Antibiotics in the agricultural soils from the Yangtze River Delta, China. *Chemosphere*, **2017**, 189, 301-308	8.4	85
194	Photosensitized oxidation of substituted phenols on aluminum phthalocyanine-intercalated organoclay. *Environmental Science & Technology*, **2005**, 39, 651-7	10.3	83
193	Solubilization of polycyclic aromatic hydrocarbons by anionic□nonionic mixed surfactant. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 255, 145-152	5.1	82
192	Toxicity of perfluorooctane sulfonate and perfluorooctanoic acid to Escherichia coli: Membrane disruption, oxidative stress, and DNA damage induced cell inactivation and/or death. *Environmental Pollution*, **2016**, 214, 806-815	9.3	82
191	Polycyclic aromatic hydrocarbon emission from straw burning and the influence of combustion parameters. *Atmospheric Environment*, **2009**, 43, 978-983	5.3	81
190	Distribution of polycyclic aromatic hydrocarbons in water, sediment and soil in drinking water resource of Zhejiang Province, China. *Journal of Hazardous Materials*, **2008**, 150, 308-16	12.8	76
189	Solubilization properties of polycyclic aromatic hydrocarbons by saponin, a plant-derived biosurfactant. *Environmental Pollution*, **2011**, 159, 1198-204	9.3	74
188	Catalytic degradation of Orange II by UV-Fenton with hydroxyl-Fe-pillared bentonite in water. *Chemosphere*, **2006**, 65, 1249-55	8.4	74
187	Simultaneous sorption of phosphate and phenanthrene to inorgano-organo-bentonite from water. *Journal of Hazardous Materials*, **2006**, 136, 982-8	12.8	68

186	Spatial distribution, emission source and health risk of parent PAHs and derivatives in surface soils from the Yangtze River Delta, eastern China. *Chemosphere*, **2017**, 178, 301-308	8.4	67
185	Sorption of sodium dodecylbenzene sulfonate by montmorillonite. *Environmental Pollution*, **2007**, 145, 571-6	9.3	65
184	Effects of Tween 80 on the removal, sorption and biodegradation of pyrene by Klebsiella oxytoca PYR-1. *Environmental Pollution*, **2012**, 164, 169-74	9.3	64
183	Sorption of polycyclic aromatic hydrocarbons to carbohydrates and lipids of ryegrass root and implications for a sorption prediction model. *Environmental Science & Technology*, **2009**, 43, 2740-5	10.3	64
182	Pollution survey of polycyclic aromatic hydrocarbons in surface water of Hangzhou, China. *Chemosphere*, **2004**, 56, 1085-95	8.4	64
181	Adsorption and conformation of a cationic surfactant on single-walled carbon nanotubes and their influence on naphthalene sorption. *Environmental Science & Technology*, **2010**, 44, 681-7	10.3	63
180	Reduced carbon sequestration potential of biochar in acidic soil. *Science of the Total Environment*, **2016**, 572, 129-137	10.2	63
179	Considerations to improve adsorption and photocatalysis of low concentration air pollutants on TiO2. *Catalysis Today*, **2014**, 225, 24-33	5.3	62
178	Effect of rhamnolipids on the uptake of PAHs by ryegrass. *Environmental Pollution*, **2008**, 156, 46-52	9.3	62
177	Sorption characteristics of CTMA□bentonite complexes as controlled by surfactant packing density. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 294, 221-227	5.1	62
176	Enhanced desorption of phenanthrene from contaminated soil using anionic/nonionic mixed surfactant. *Environmental Pollution*, **2007**, 147, 350-7	9.3	62
175	Graphene-coated materials using silica particles as a framework for highly efficient removal of aromatic pollutants in water. *Scientific Reports*, **2015**, 5, 11641	4.9	61
174	Enhanced soil flushing of phenanthrene by anionic-nonionic mixed surfactant. *Water Research*, **2008**, 42, 101-8	12.5	61
173	Influence of clay charge densities and surfactant loading amount on the microstructure of CTMA□montmorillonite hybrids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 304, 41-48	5.1	61
172	Tea plant uptake and translocation of polycyclic aromatic hydrocarbons from water and around air. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 3658-62	5.7	61
171	Persistent chlorinated pesticides in fish species from Qiantang River in East China. *Chemosphere*, **2007**, 68, 838-47	8.4	60
170	Shifts in microbial community structure during in situ surfactant-enhanced bioremediation of polycyclic aromatic hydrocarbon-contaminated soil. *Environmental Science and Pollution Research*, **2016**, 23, 14451-61	5.1	59
169	Enhanced soil washing of phenanthrene by a plant-derived natural biosurfactant, Sapindus saponin. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 425, 122-128	5.1	58

168	Impact of biochar on soil NO emissions under different biochar-carbon/fertilizer-nitrogen ratios at a constant moisture condition on a silt loam soil. *Science of the Total Environment*, **2017**, 584-585, 776-782	10.2	57
167	Distribution of polycyclic aromatic hydrocarbons in soil-water system containing a nonionic surfactant. *Chemosphere*, **2005**, 60, 1237-45	8.4	56
166	Concentrations and characteristics of organochlorine pesticides in aquatic biota from Qiantang River in China. *Environmental Pollution*, **2008**, 151, 190-9	9.3	55
165	Structure of cetyltrimethylammonium intercalated hydrobiotite. *Applied Clay Science*, **2008**, 42, 224-231	5.2	55
164	Pollution patterns of polycyclic aromatic hydrocarbons in tobacco smoke. *Journal of Hazardous Materials*, **2007**, 139, 193-8	12.8	55
163	Levels and health risks of carbonyl compounds in selected public places in Hangzhou, China. *Journal of Hazardous Materials*, **2009**, 164, 700-6	12.8	54
162	Simultaneous removal of acid dye and cationic surfactant from water by bentonite in one-step process. *Chemical Engineering Journal*, **2008**, 139, 503-509	14.7	54
161	Characterization of sorption mechanisms of VOCs with organobentonites using a LSER approach. *Environmental Science & Technology*, **2004**, 38, 489-95	10.3	53
160	Application of the partition-limited model for plant uptake of organic chemicals from soil and water. *Science of the Total Environment*, **2005**, 336, 171-82	10.2	53
159	The toxicity of naphthalene to marine Chlorella vulgaris under different nutrient conditions. *Journal of Hazardous Materials*, **2010**, 178, 282-6	12.8	52
158	Sorption of naphthalene and phosphate to the CTMAB-Al13 intercalated bentonites. *Journal of Hazardous Materials*, **2009**, 168, 1590-4	12.8	51
157	Enhanced photodegradation of 2,4,6-trichlorophenol over palladium phthalocyaninesulfonate modified organobentonite. *Langmuir*, **2005**, 21, 10602-7	4	51
156	Levels and source of organochlorine pesticides in surface waters of Qiantang River, China. *Environmental Monitoring and Assessment*, **2008**, 136, 277-87	3.1	50
155	A multi-component statistic analysis for the influence of sediment/soil composition on the sorption of a nonionic surfactant (Triton X-100) onto natural sediments/soils. *Water Research*, **2003**, 37, 4792-800	12.5	50
154	Effect of surfactant-induced cell surface modifications on electron transport system and catechol 1,2-dioxygenase activities and phenanthrene biodegradation by Citrobacter sp. SA01. *Bioresource Technology*, **2012**, 123, 42-8	11	48
153	Role of the extractable lipids and polymeric lipids in sorption of organic contaminants onto plant cuticles. *Environmental Science & Technology*, **2008**, 42, 1517-23	10.3	48
152	Structures of OTMA- and DODMA-bentonite and their sorption characteristics towards organic compounds. *Journal of Colloid and Interface Science*, **2009**, 331, 8-14	9.3	46
151	Sorption of phenanthrene to biochar modified by base. *Frontiers of Environmental Science and Engineering*, **2018**, 12, 1	5.8	45

150	UV-Fenton discolouration and mineralization of Orange II over hydroxyl-Fe-pillared bentonite. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 188, 56-64	4.7	45
149	Factors affecting transfer of polycyclic aromatic hydrocarbons from made tea to tea infusion. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 4350-4	5.7	44
148	Removal of phenols from water accompanied with synthesis of organobentonite in one-step process. *Chemosphere*, **2007**, 68, 1883-8	8.4	42
147	Effect of oxidation-induced aging on the adsorption and co-adsorption of tetracycline and Cu onto biochar. *Science of the Total Environment*, **2019**, 673, 522-532	10.2	41
146	Removal of polycyclic aromatic hydrocarbons from surfactant solutions by selective sorption with organo-bentonite. *Chemical Engineering Journal*, **2013**, 233, 251-257	14.7	41
145	Sugar Cane-Converted Graphene-like Material for the Superhigh Adsorption of Organic Pollutants from Water via Coassembly Mechanisms. *Environmental Science & Technology*, **2017**, 51, 12644-12652	10.3	40
144	A novel solubilization of phenanthrene using Winsor I microemulsion-based sodium castor oil sulfate. *Journal of Hazardous Materials*, **2005**, 119, 205-11	12.8	40
143	Distribution, input pathway and soil-air exchange of polycyclic aromatic hydrocarbons in Banshan Industry Park, China. *Science of the Total Environment*, **2013**, 444, 177-82	10.2	39
142	Microstructure of organo-bentonites in water and the effect of steric hindrance on the uptake of organic compounds. *Clays and Clay Minerals*, **2008**, 56, 144-154	2.1	39
141	Levels and distribution of organochlorine pesticides in shellfish from Qiantang River, China. *Journal of Hazardous Materials*, **2008**, 152, 1192-200	12.8	39
140	Silylated pillared clay (SPILC): A novel bentonite-based inorgano-organo composite sorbent synthesized by integration of pillaring and silylation. *Journal of Colloid and Interface Science*, **2007**, 315, 191-9	9.3	38
139	Solubilization of DNAPLs by mixed surfactant: reduction in partitioning losses of nonionic surfactant. *Chemosphere*, **2006**, 62, 772-9	8.4	38
138	Efficient removal and mechanisms of water soluble aromatic contaminants by a reduced-charge bentonite modified with benzyltrimethylammonium cation. *Chemosphere*, **2008**, 70, 1987-94	8.4	37
137	Gene expression of an arthrobacter in surfactant-enhanced biodegradation of a hydrophobic organic compound. *Environmental Science & Technology*, **2015**, 49, 3698-704	10.3	36
136	Adsorption of volatile organic compounds onto porous clay heterostructures based on spent organobentonites. *Clays and Clay Minerals*, **2005**, 53, 123-136	2.1	36
135	Enhancing plant-microbe associated bioremediation of phenanthrene and pyrene contaminated soil by SDBS-Tween 80 mixed surfactants. *Journal of Environmental Sciences*, **2014**, 26, 1071-9	6.4	35
134	Structure of surfactant–clay complexes and their sorptive characteristics toward HOCs. *Separation and Purification Technology*, **2008**, 63, 156-162	8.3	35
133	Occurrence and distribution of antibiotics and resistance genes in greenhouse and open-field agricultural soils in China. *Chemosphere*, **2019**, 224, 900-909	8.4	35

132	The role of artificial root exudate components in facilitating the degradation of pyrene in soil. *Scientific Reports*, **2017**, 7, 7130	4.9	34
131	Sorption of phenanthrene by nanosized alumina coated with sequentially extracted humic acids. *Environmental Science and Pollution Research*, **2010**, 17, 410-9	5.1	34
130	Phthalate esters and organochlorine pesticides in agricultural soils and vegetables from fast-growing regions: a case study from eastern China. *Environmental Science and Pollution Research* , **2018**, 25, 34-42	5.1	33
129	Organophosphate pesticide in agricultural soils from the Yangtze River Delta of China: concentration, distribution, and risk assessment. *Environmental Science and Pollution Research*, **2018**, 25, 4-11	5.1	33
128	Multimedia modeling of the PAH concentration and distribution in the Yangtze River Delta and human health risk assessment. *Science of the Total Environment*, **2019**, 647, 962-972	10.2	33
127	Oxalate enhanced mechanism of hydroxyl-Fe-pillared bentonite during the degradation of Orange II by UV-Fenton process. *Journal of Hazardous Materials*, **2011**, 185, 1477-81	12.8	33
126	Comparative study of catalytic activity of different Fe-pillared bentonites in the presence of UV light and H2O2. *Separation and Purification Technology*, **2009**, 67, 282-288	8.3	33
125	Partitioning of polycyclic aromatic hydrocarbons to solid-sorbed nonionic surfactants. *Environmental Pollution*, **2008**, 152, 130-7	9.3	33
124	Nanoparticle TiO size and rutile content impact bioconcentration and biomagnification from algae to daphnia. *Environmental Pollution*, **2019**, 247, 421-430	9.3	33
123	Correlations of nonlinear sorption of organic solutes with soil/sediment physicochemical properties. *Chemosphere*, **2005**, 61, 116-28	8.4	32
122	Effect of TiO2 content on the properties of polysulfone nanofiltration membranes modified with a layer of TiO2□graphene oxide. *Separation and Purification Technology*, **2020**, 242, 116770	8.3	31
121	Enhanced sorption of naphthalene and p-nitrophenol by nano-SiO2 modified with a cationic surfactant. *Water Research*, **2013**, 47, 4006-12	12.5	31
120	Reducing plant uptake of PAHs by cationic surfactant-enhanced soil retention. *Environmental Pollution*, **2009**, 157, 1794-9	9.3	31
119	The phytotoxicities of decabromodiphenyl ether (BDE-209) to different rice cultivars (Oryza sativa L.). *Environmental Pollution*, **2018**, 235, 692-699	9.3	30
118	Effect of SDBS□Tween 80 mixed surfactants on the distribution of polycyclic aromatic hydrocarbons in soil□water system. *Journal of Soils and Sediments*, **2010**, 10, 1123-1130	3.4	30
117	Levels, sources, and health risks of carbonyls in residential indoor air in Hangzhou, China. *Environmental Monitoring and Assessment*, **2010**, 163, 573-81	3.1	30
116	Interconversion between Methoxylated and Hydroxylated Polychlorinated Biphenyls in Rice Plants: An Important but Overlooked Metabolic Pathway. *Environmental Science & Technology*, **2016**, 50, 3668-75	10.3	29
115	Influence of surfactant sorption on the removal of phenanthrene from contaminated soils. *Environmental Pollution*, **2008**, 152, 99-105	9.3	29

114	Sorption characteristics and mechanisms of organic contaminant to carbonaceous biosorbents in aqueous solution. *Science in China Series B: Chemistry*, **2008**, 51, 464-472		29
113	Thermodynamics of naphthalene sorption to organoclays: role of surfactant packing density. *Journal of Colloid and Interface Science*, **2008**, 322, 27-32	9.3	29
112	Prediction of phenanthrene uptake by plants with a partition-limited model. *Environmental Pollution*, **2004**, 131, 505-8	9.3	29
111	Minimizing losses of nonionic and anionic surfactants to a montmorillonite saturated with calcium using their mixtures. *Journal of Colloid and Interface Science*, **2005**, 291, 59-66	9.3	29
110	Evaluating bioavailability of organic pollutants in soils by sequential ultrasonic extraction procedure. *Chemosphere*, **2016**, 156, 21-29	8.4	29
109	Benzene vapor sorption by organobentonites from ambient air. *Clays and Clay Minerals*, **2002**, 50, 421-427	2.1	27
108	Atrazine contamination in agricultural soils from the Yangtze River Delta of China and associated health risks. *Environmental Geochemistry and Health*, **2017**, 39, 369-378	4.7	26
107	Surface microtopography of surfactant modified montmorillonite. *Applied Clay Science*, **2009**, 45, 70-75	5.2	26
106	Pollution characteristics and health risk assessment of phthalate esters in agricultural soil and vegetables in the Yangtze River Delta of China. *Science of the Total Environment*, **2020**, 726, 137978	10.2	25
105	Optimizing Nanoscale TiO2 for Adsorption-Enhanced Photocatalytic Degradation of Low-Concentration Air Pollutants. *ChemCatChem*, **2013**, 5, 3114-3123	5.2	25
104	Performance of the partition-limited model on predicting ryegrass uptake of polycyclic aromatic hydrocarbons. *Chemosphere*, **2007**, 67, 402-9	8.4	25
103	Polychlorinated biphenyls in agricultural soils from the Yangtze River Delta of China: Regional contamination characteristics, combined ecological effects and human health risks. *Chemosphere*, **2016**, 163, 422-428	8.4	25
102	Mixed-surfactant-enhanced phytoremediation of PAHs in soil: Bioavailability of PAHs and responses of microbial community structure. *Science of the Total Environment*, **2019**, 653, 658-666	10.2	25
101	Adsorptive characteristics of the siloxane surfaces of reduced-charge bentonites saturated with tetramethylammonium cation. *Environmental Science & Technology*, **2008**, 42, 7911-7	10.3	24
100	Effects of biochar on CH4 emission with straw application on paddy soil. *Journal of Soils and Sediments*, **2018**, 18, 599-609	3.4	24
99	Metabolomics and transcriptomics reveal defense mechanism of rice (Oryza sativa) grains under stress of 2,2$4,4$tetrabromodiphenyl ether. *Environment International*, **2019**, 133, 105154	12.9	23
98	A new speciation scheme of soil polycyclic aromatic hydrocarbons for risk assessment. *Journal of Soils and Sediments*, **2015**, 15, 1139-1149	3.4	23
97	Antibiotic resistance genes (ARGs) in agricultural soils from the Yangtze River Delta, China. *Science of the Total Environment*, **2020**, 740, 140001	10.2	23

96	Formation of hydroxylated and methoxylated polychlorinated biphenyls by Bacillus subtilis: New insights into microbial metabolism. *Science of the Total Environment*, **2018**, 613-614, 54-61	10.2	23
95	Removal of polycyclic aromatic hydrocarbons and phenols from coking wastewater by simultaneously synthesized organobentonite in a one-step process. *Journal of Environmental Sciences*, **2012**, 24, 248-53	6.4	23
94	Comparison of greenhouse and open field cultivations across China: Soil characteristics, contamination and microbial diversity. *Environmental Pollution*, **2018**, 243, 1509-1516	9.3	23
93	Environmentally Relevant Concentrations of the Flame Retardant Tris(1,3-dichloro-2-propyl) Phosphate Inhibit the Growth and Reproduction of Earthworms in Soil. *Environmental Science and Technology Letters*, **2019**, 6, 277-282	11	22
92	Separated pathways for biochar to affect soil NO emission under different moisture contents. *Science of the Total Environment*, **2018**, 645, 887-894	10.2	22
91	Enhanced organic contaminants accumulation in crops: Mechanisms, interactions with engineered nanomaterials in soil. *Environmental Pollution*, **2018**, 240, 51-59	9.3	22
90	Surfactant-modified fatty acid composition of Citrobacter sp. SA01 and its effect on phenanthrene transmembrane transport. *Chemosphere*, **2014**, 107, 58-64	8.4	22
89	Sorption characteristics of nitrosodiphenylamine (NDPhA) and diphenylamine (DPhA) onto organo-bentonite from aqueous solution. *Chemical Engineering Journal*, **2014**, 240, 487-493	14.7	22
88	Metabolomic analysis of two rice (Oryza sativa) varieties exposed to 2, 2$ 4, 4Stetrabromodiphenyl ether. *Environmental Pollution*, **2018**, 237, 308-317	9.3	21
87	Mitigation and remediation technologies for organic contaminated soils. *Frontiers of Environmental Science and Engineering in China*, **2010**, 4, 373-386		21
86	Effect of zinc on the transformation of haloacetic acids (HAAs) in drinking water. *Journal of Hazardous Materials*, **2010**, 174, 40-6	12.8	21
85	Evaluation of the application potential of bentonites in phenanthrene bioremediation by characterizing the biofilm community. *Bioresource Technology*, **2013**, 134, 17-23	11	20
84	Metabolomic and Transcriptomic Investigation of Metabolic Perturbations in L. Triggered by Three Pesticides. *Environmental Science & Technology*, **2020**, 54, 6115-6124	10.3	19
83	Effect of soil components on the surfactant-enhanced soil sorption of PAHs. *Journal of Soils and Sediments*, **2012**, 12, 161-168	3.4	19
82	Structures of hexamethonium exchanged bentonite and the sorption characteristics for phenol. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 307, 1-6	5.1	19
81	Sorption of polycyclic aromatic hydrocarbons to soils enhanced by heavy metals: perspective of molecular interactions. *Journal of Soils and Sediments*, **2016**, 16, 1509-1518	3.4	18
80	Contamination characteristics and source apportionment of methylated PAHs in agricultural soils from Yangtze River Delta, China. *Environmental Pollution*, **2017**, 230, 927-935	9.3	18
79	Tricrystalline TiO2 with enhanced photocatalytic activity and durability for removing volatile organic compounds from indoor air. *Journal of Environmental Sciences*, **2015**, 32, 189-95	6.4	18

78	Remediation of soil contaminated with organic compounds by nanoscale zero-valent iron: A review. *Science of the Total Environment*, **2021**, 760, 143413	10.2	18
77	Occurrence and risk assessment of pharmaceuticals and personal care products (PPCPs) against COVID-19 in lakes and WWTP-river-estuary system in Wuhan, China. *Science of the Total Environment*, **2021**, 792, 148352	10.2	18
76	Estimating Emissions and Environmental Fate of Di-(2-ethylhexyl) Phthalate in Yangtze River Delta, China: Application of Inverse Modeling. *Environmental Science & Technology*, **2016**, 50, 2450-8	10.3	17
75	Controlling microbiological interfacial behaviors of hydrophobic organic compounds by surfactants in biodegradation process. *Frontiers of Environmental Science and Engineering*, **2014**, 8, 305-315	5.8	17
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