Zhi-Neng Hong

List of Publications by Year
in descending order

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		411340	488211
51	1,141	20	31
papers	citations	h-index	g-index

51	51	51	987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laboratory studies on the effect of adsorbed microbial extracellular polymeric substances on the acidity of selected variableâ€charge soils. Soil Science Society of America Journal, 2022, 86, 162-180.	1.2	12
2	The effects of H2O2- and HNO3/H2SO4-modified biochars on the resistance of acid paddy soil to acidification. Environmental Pollution, 2022, 293, 118588.	3.7	20
3	Adsorption of amino acids by montmorillonite and gibbsite: Adsorption isotherms and spectroscopic analysis. Applied Clay Science, 2022, 219, 106437.	2.6	10
4	Effects of pH variations caused by redox reactions and pH buffering capacity on Cd(II) speciation in paddy soils during submerging/draining alternation. Ecotoxicology and Environmental Safety, 2022, 234, 113409.	2.9	24
5	Aluminum mobilization as influenced by soil organic matter during soil and mineral acidification: A constant pH study. Geoderma, 2022, 418, 115853.	2.3	30
6	Effects of the increases in soil pH and pH buffering capacity induced by crop residue biochars on available Cd contents in acidic paddy soils. Chemosphere, 2022, 301, 134674.	4.2	38
7	Effect of the interaction of fulvic acid with Pb(II) on the distribution of Pb(II) between solid and liquid phases of four minerals. Environmental Science and Pollution Research, 2022, 29, 68680-68691.	2.7	3
8	Characteristics of crop straw-decayed products and their ameliorating effects on an acidic Ultisol. Archives of Agronomy and Soil Science, 2021, 67, 1708-1721.	1.3	9
9	Direct Quantification of Sorption Thermodynamics of Phosphate on Four Soil Colloids through Isothermal Titration Calorimetry. ACS Earth and Space Chemistry, 2021, 5, 295-304.	1.2	8
10	Enhancement of Cd(II) adsorption by rice straw biochar through oxidant and acid modifications. Environmental Science and Pollution Research, 2021, 28, 42787-42797.	2.7	23
11	Effect of paddy cultivation on the surface electrochemical properties of differentâ€sized particles of a Gleysol. Journal of Plant Nutrition and Soil Science, 2021, 184, 471-478.	1.1	1
12	Inhibition of phosphate sorptions on four soil colloids by two bacteria. Environmental Pollution, 2021, 290, 118001.	3.7	5
13	Increased Magnesium Adsorption onto Colloids in Two Variable-Charge Soils in the Presence of Bacillus subtilis and Pseudomonas fluorescens. Geomicrobiology Journal, 2020, 37, 31-39.	1.0	5
14	The mechanisms underlying the reduction in aluminum toxicity and improvements in the yield of sweet potato (Ipomoea batatas L.) After organic and inorganic amendment of an acidic ultisol. Agriculture, Ecosystems and Environment, 2020, 288, 106716.	2.5	33
15	The role of extracellular polymeric substances in bacterial adhesion onto variable charge soils. Archives of Agronomy and Soil Science, 2020, 66, 1780-1793.	1.3	12
16	The amelioration effects of canola straw biochar on Ultisol acidity varied with the soil in which the feedstock crop was cultivated. Journal of Soils and Sediments, 2020, 20, 1424-1434.	1.5	8
17	Effect of ferrolysis and organic matter accumulation on chromate adsorption characteristics of an Oxisol-derived paddy soil. Science of the Total Environment, 2020, 744, 140868.	3.9	6
18	Effects of citrate, oxalate, and phosphate on the sorption of Cr(VI) by extracellular polymeric substances. Journal of Water Process Engineering, 2020, 37, 101510.	2.6	12

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19	Isothermal titration calorimetry as a useful tool to examine adsorption mechanisms of phosphate on gibbsite at various solution conditions. Soil Science Society of America Journal, 2020, 84, 1110-1124.	1.2	5
20	Effects of crop straw biochars on aluminum species in soil solution as related with the growth and yield of canola (Brassica napus L.) in an acidic Ultisol under field condition. Environmental Science and Pollution Research, 2020, 27, 30178-30189.	2.7	15
21	Effect of aluminum modification of rice strawâ€“based biochar on arsenate adsorption. Journal of Soils and Sediments, 2020, 20, 3073-3082.	1.5	28
22	The mechanism for inhibiting acidification of variable charge soils by adhered Pseudomonas fluorescens. Environmental Pollution, 2020, 260, 114049.	3.7	20
23	Phytotoxicity of Cu2+ and Cd2+ to the roots of four different wheat cultivars as related to charge properties and chemical forms of the metals on whole plant roots. Ecotoxicology and Environmental Safety, 2020, 196, 110545.	2.9	21
24	An electrokinetic perspective into the mechanism of divalent and trivalent cation sorption by extracellular polymeric substances of Pseudomonas fluorescens. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110450.	2.5	11
25	Paddy Cultivation Significantly Alters Phosphorus Sorption Characteristics and Loss Risk in a Calcareous Paddy Soil Chronosequence. Soil Science Society of America Journal, 2019, 83, 575-583.	1.2	15
26	Adhesion mediated transport of bacterial pathogens in saturated sands coated by phyllosilicates and Al-oxides. Colloids and Surfaces B: Biointerfaces, 2019, 181, 215-225.	2.5	4
27	Adsorption mechanism of extracellular polymeric substances from two bacteria on Ultisol and Alfisol. Environmental Pollution, 2018, 237, 39-49.	3.7	21
28	Peanut straw biochar increases the resistance of two Ultisols derived from different parent materials to acidification: A mechanism study. Journal of Environmental Management, 2018, 210, 171-179.	3.8	48
29	Preferential adhesion of surface groups of Bacillus subtilis on gibbsite at different ionic strengths and pHs revealed by ATR-FTIR spectroscopy. Colloids and Surfaces B: Biointerfaces, 2018, 165, 83-91.	2.5	21
30	ATRâ€“FTIR investigation of mechanisms of Bacillus subtilis adhesion onto variable- and constant-charge soil colloids. Colloids and Surfaces B: Biointerfaces, 2018, 162, 288-295.	2.5	20
31	Sorption of organic phosphates and its effects on aggregation of hematite nanoparticles in monovalent and bivalent solutions. Environmental Science and Pollution Research, 2017, 24, 7197-7207.	2.7	22
32	Effect of Fe/Al Hydroxides on Transport and Retention of Escherichia coli in Saturated Sand Media. Geomicrobiology Journal, 2017, 34, 881-888.	1.0	4
33	Pectin adsorption on amorphous Fe/Al hydroxides and its effect on surface charge properties and Cu(II) adsorption. Journal of Soils and Sediments, 2017, 17, 2481-2489.	1.5	7
34	Evaluation of ferrolysis in arsenate adsorption on the paddy soil derived from an Oxisol. Chemosphere, 2017, 179, 232-241.	4.2	50
35	Mechanisms for Increasing the pH Buffering Capacity of an Acidic Ultisol by Crop Residue-Derived Biochars. Journal of Agricultural and Food Chemistry, 2017, 65, 8111-8119.	2.4	103
36	<scp>I</scp>nâ€situ<scp>ATRâ€FTIR</scp> spectroscopic investigation of desorption of phosphate from haematite by bacteria. European Journal of Soil Science, 2017, 68, 480-490.	1.8	4

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37	Effects of Surface Charge and Functional Groups on the Adsorption and Binding Forms of Cu and Cd on Roots of indica and japonica Rice Cultivars. Frontiers in Plant Science, 2017, 8, 1489.	1.7	20
38	Competition between bacteria and phosphate for adsorption sites on gibbsite: An in-situ ATR-FTIR spectroscopic and macroscopic study. Colloids and Surfaces B: Biointerfaces, 2016, 148, 496-502.	2.5	16
39	Effect of clay colloids on the zeta potential of Fe/Al oxide-coated quartz: a streaming potential study. Journal of Soils and Sediments, 2016, 16, 2676-2686.	1.5	12
40	Presence of bacteria reduced phosphate adsorption on goethite. European Journal of Soil Science, 2015, 66, 406-416.	1.8	13
41	Effects of humic acid on adhesion of Bacillus subtilis to phyllosilicates and goethite. Chemical Geology, 2015, 416, 19-27.	1.4	29
42	Interactions BetweenEscherchia coliand the Colloids of Three Variable Charge Soils and Their Effects on Soil Surface Charge Properties. Geomicrobiology Journal, 2015, 32, 511-520.	1.0	18
43	Streaming potential method for characterizing the overlapping of diffuse layers of the electrical double layers between oppositely charged particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 478, 22-29.	2.3	15
44	Adhesion of Escherichia coli and Bacillus subtilis to amorphous Fe and Al hydroxides and their effects on the surface charges of the hydroxides. Journal of Soils and Sediments, 2015, 15, 2293-2303.	1.5	29
45	Rice Straw-Derived Biochar Properties and Functions as Cu(II) and Cyromazine Sorbents as Influenced by Pyrolysis Temperature. Pedosphere, 2015, 25, 781-789.	2.1	41
46	Effects of Solution Chemistry on Bacterial Adhesion with Phyllosilicates and Goethite Explained by the Extended DLVO Theory. Geomicrobiology Journal, 2014, 31, 419-430.	1.0	21
47	Adhesion of Escherichia coli to nano-Fe/Al oxides and its effect on the surface chemical properties of Fe/Al oxides. Colloids and Surfaces B: Biointerfaces, 2013, 110, 289-295.	2.5	25
48	The effect of extracellular polymeric substances on the adhesion of bacteria to clay minerals and goethite. Chemical Geology, 2013, 360-361, 118-125.	1.4	60
49	Initial adhesion of Bacillus subtilis on soil minerals as related to their surface properties. European Journal of Soil Science, 2012, 63, 457-466.	1.8	78
50	Effects of Temperature, pH and Salt Concentrations on the Adsorption ofBacillus subtilison Soil Clay Minerals Investigated by Microcalorimetry. Geomicrobiology Journal, 2011, 28, 686-691.	1.0	26
51	Impact of cell wall structure on the behavior of bacterial cells in the binding of copper and cadmium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 50-55.	2.3	60