Zhengyi Hu

List of Publications by Year
in descending order

67	1,851	331670 21	289244 40
papers	citations	h-index	g-index

68	68	68	2208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological and Biochemical Effects of Rare Earth Elements on Plants and Their Agricultural Significance: A Review. Journal of Plant Nutrition, 2004, 27, 183-220.	1.9	364
2	Rare Earth Elements in Soils. Communications in Soil Science and Plant Analysis, 2006, 37, 1381-1420.	1.4	264
3	Emissions of ammonia and greenhouse gases during combined pre-composting and vermicomposting of duck manure. Waste Management, 2014, 34, 1546-1552.	7.4	105
4	Seasonal variation of microbial biomass, activity, and community structure in soil under different tillage and phosphorus management practices. Biology and Fertility of Soils, 2013, 49, 803-818.	4.3	58
5	An assessment of the soil microbial status after 17 years of tillage and mineral P fertilization management. Applied Soil Ecology, 2012, 62, 14-23.	4.3	51
6	The removal of nutrients from non-point source wastewater by a hybrid bioreactor. Bioresource Technology, 2011, 102, 2419-2426.	9.6	49
7	Removal of cyanobacterial bloom from a biopondâ€“wetland system and the associated response of zoobenthic diversity. Bioresource Technology, 2010, 101, 3903-3908.	9.6	37
8	Aggregate Associated Sulfur Fractions in Longâ€Term (>80 Years) Fertilized Soils. Soil Science Society of America Journal, 2007, 71, 163-170.	2.2	36
9	Optimization of pollutant reduction system for controlling agricultural non-point-source pollution based on grey relational analysis combined with analytic hierarchy process. Journal of Environmental Management, 2019, 243, 370-380.	7.8	35
10	Preparation of biochar as a coating material for biochar-coated urea. Science of the Total Environment, 2020, 731, 139063.	8.0	35
11	Coupling effects of pH and Mg/P ratio on P recovery from anaerobic digester supernatant by struvite formation. Journal of Cleaner Production, 2018, 198, 633-641.	9.3	33
12	Influence of process parameters on phosphorus recovery by struvite formation from urine. Water Science and Technology, 2013, 68, 2434-2440.	2.5	32
13	Eco-restoration: Simultaneous nutrient removal from soil and water in a complex residentialâ€“cropland area. Environmental Pollution, 2010, 158, 2472-2477.	7.5	31
14	Application of biochar-coated urea controlled loss of fertilizer nitrogen and increased nitrogen use efficiency. Chemical and Biological Technologies in Agriculture, 2021, 8, .	4.6	31
15	Organic amendments affect dissolved organic matter composition and mercury dissolution in pore waters of mercury-polluted paddy soil. Chemosphere, 2019, 232, 356-365.	8.2	29
16	Risk of phosphorus leaching from phosphorus-enriched soils in the Dianchi catchment, Southwestern China. Environmental Science and Pollution Research, 2015, 22, 8460-8470.	5.3	27
17	Sulfur controlled cadmium dissolution in pore water of cadmium-contaminated soil as affected by DOC under waterlogging. Chemosphere, 2020, 240, 124846.	8.2	27
18	A Model of Critical Phosphorus Concentration in the Shoot Biomass of Wheat. Agronomy Journal, 2015, 107, 963-970.	1.8	25

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19	Role of plant species and soil phosphorus concentrations in determining phosphorus: nutrient stoichiometry in leaves and fine roots. Plant and Soil, 2019, 445, 231-242.	3.7	25
20	A multi-level bioreactor to remove organic matter and metals, together with its associated bacterial diversity. Bioresource Technology, 2011, 102, 736-741.	9.6	24
21	Effects of warming and increased precipitation on soil carbon mineralization in an Inner Mongolian grassland after 6Âyears of treatments. Biology and Fertility of Soils, 2012, 48, 859-866.	4.3	24
22	Hierarchical eco-restoration: A systematical approach to removal of COD andÂdissolved nutrients from an intensive agricultural area. Environmental Pollution, 2010, 158, 3123-3129.	7.5	23
23	Changes in Soil Phosphorus Fractions for a Longâ€Term Cornâ€Soybean Rotation with Tillage and Phosphorus Fertilization. Soil Science Society of America Journal, 2013, 77, 1402-1412.	2.2	23
24	Effects of biochar application and irrigation rate on the soil phosphorus leaching risk of fluvisol profiles in open vegetable fields. Science of the Total Environment, 2021, 789, 147973.	8.0	22
25	Cadmium and mercury removal from non-point source wastewater by a hybrid bioreactor. Bioresource Technology, 2011, 102, 9927-9932.	9.6	21
26	Effects of microbial bioeffectors and P amendements on P forms in a maize cropped soil as evaluated by 31Pâ€“NMR spectroscopy. Plant and Soil, 2018, 427, 87-104.	3.7	21
27	Effect of crop growth on the distribution and mineralization of soil sulfur fractions in the rhizosphere. Journal of Plant Nutrition and Soil Science, 2002, 165, 249-254.	1.9	20
28	Influence of Soil and Irrigation Water pH on the Availability of Phosphorus in Struvite Derived from Urine through a Greenhouse Pot Experiment. Journal of Agricultural and Food Chemistry, 2016, 64, 3324-3329.	5.2	20
29	Phosphorus recovery from urine with different magnesium resources in an air-agitated reactor. Environmental Technology (United Kingdom), 2014, 35, 2781-2787.	2.2	19
30	Compositional and chemical characteristics of dissolved organic matter in various types of cropped and natural Chinese soils. Chemical and Biological Technologies in Agriculture, 2019, 6, .	4.6	18
31	Removal of UV254nm matter and nutrients from a photobioreactor-wetland system. Journal of Hazardous Materials, 2011, 194, 1-6.	12.4	16
32	Influence of alkaline silicon-based amendment and incorporated with biochar on the growth and heavy metal translocation and accumulation of vetiver grass (Vetiveria zizanioides) grown in multi-metal-contaminated soils. Journal of Soils and Sediments, 2019, 19, 2277-2289.	3.0	16
33	Preparation of a silicon-iron amendment from acid-extracted copper tailings for remediating multi-metal-contaminated soils. Environmental Pollution, 2020, 257, 113565.	7.5	16
34	Uptake of nutrients and heavy metals in struvite recovered from a mixed wastewater of human urine and municipal sewage by two vegetables in calcareous soil. Environmental Technology and Innovation, 2019, 15, 100384.	6.1	15
35	Water-soluble mercury induced by organic amendments affected microbial community assemblage in mercury-polluted paddy soil. Chemosphere, 2019, 236, 124405.	8.2	14
36	Comparison of Mineralization and Distribution of Soil Sulfur Fractions in the Rhizosphere of Oilseed Rape and Rice. Communications in Soil Science and Plant Analysis, 2003, 34, 2243-2257.	1.4	13

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37	Suppression of Ammonia Volatilization from Riceâ€“Wheat Rotation Fields Amended with Controlledâ€Release Urea and Urea. Agronomy Journal, 2016, 108, 1214-1224.	1.8	13
38	Optimized procedure for the determination of P species in soil by liquid-state 31P-NMR spectroscopy. Chemical and Biological Technologies in Agriculture, 2015, 2, .	4.6	12
39	Improvement of the quality of struvite crystals recovered from a mixture of human urine and municipal sewage via a novel two-step precipitation method. Environmental Technology and Innovation, 2018, 12, 80-90.	6.1	12
40	Organic Carbon Sequestration in Soil Humic Substances As Affected by Application of Different Nitrogen Fertilizers in a Vegetable-Rotation Cropping System. Journal of Agricultural and Food Chemistry, 2019, 67, 3106-3113.	5.2	12
41	Influence of individual and combined application of biochar, Bacillus megaterium, and phosphatase on phosphorus availability in calcareous soil. Journal of Soils and Sediments, 2019, 19, 3688-3698.	3.0	11
42	Phosphorus Leaching from Soil Profiles in Agricultural and Forest Lands Measured by a Cascade Extraction Method. Journal of Environmental Quality, 2019, 48, 568-578.	2.0	11
43	The Primary Drivers of Greenhouse Gas Emissions Along the Water Table Gradient in the Zoige Alpine Peatland. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	11
44	Soil water content, carbon, and nitrogen determine the abundances of methanogens, methanotrophs, and methane emission in the Zoige alpine wetland. Journal of Soils and Sediments, 2022, 22, 470-481.	3.0	11
45	The application of zero-water discharge system in treating diffuse village wastewater and its benefits in community afforestation. Environmental Pollution, 2011, 159, 2968-2973.	7.5	9
46	Effect of contact to the atmosphere and dilution on phosphorus recovery from human urine through struvite formation. Environmental Technology (United Kingdom), 2014, 35, 271-277.	2.2	9
47	Furfuralâ€“biochar-based formulations show synergistic and potentiating effects against Meloidogyne incognita in tomato. Journal of Pest Science, 2018, 91, 203-218.	3.7	9
48	Response of phosphorus fractions to land-use change followed by long-term fertilization in a sub-alpine humid soil of Qinghaiâ€“Tibet plateau. Journal of Soils and Sediments, 2019, 19, 1109-1119.	3.0	9
49	Longâ€term fertilization alters microbial community but fails to reclaim soil organic carbon stocks in a landâ€use changed soil of the Tibetan Plateau. Land Degradation and Development, 2020, 31, 531-542.	3.9	9
50	Effect of hydraulic retention time and seed material on phosphorus recovery and crystal size from urine in an air-agitated reactor. Water Science and Technology, 2014, 69, 1462-1468.	2.5	8
51	Effects of sulfate on cadmium uptake in wheat grown in paddy soil - pot experiment. Plant, Soil and Environment, 2019, 65, 602-608.	2.2	8
52	Phosphorus accumulation poses less influence than soil physicochemical properties on organic phosphorus adsorption on ferrasol. Geoderma, 2021, 402, 115324.	5.1	8
53	Fate of phosphorus in diluted urine with tap water. Chemosphere, 2014, 113, 146-150.	8.2	7
54	Effects of sulfur application on cadmium accumulation in brown rice under wheat-rice rotation. Environmental Pollution, 2021, 287, 117601.	7.5	7

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55	Estimation of Ammonia Volatilization from a Paddy Field after Application of Controlled-Release Urea Based on the Modified Jayaweeraâ€“Mikkelsen Model Combined with the Sherlockâ€“Goh Model. Communications in Soil Science and Plant Analysis, 2016, 47, 1630-1643.	1.4	6
56	Influence of CaO-activated silicon-based slag amendment on the growth and heavy metal uptake of vetiver grass (Vetiveria zizanioides) grown in multi-metal-contaminated soils. Environmental Science and Pollution Research, 2019, 26, 32243-32254.	5.3	6
57	Soil Phosphorus Fractionation as Affected by Paper Mill Biosolids Applied to Soils of Contrasting Properties. Frontiers in Environmental Science, 2020, 8, .	3.3	6
58	Doseâ€“Effect Relationship of Water Salinity Levels on Osmotic Regulators, Nutrient Uptake, and Growth of Transplanting Vetiver [Vetiveria zizanioides (L.) Nash]. Plants, 2021, 10, 562.	3.5	6
59	Residual effects of sulfur application prior to oilseed rape cultivation on cadmium accumulation in brown rice under an oilseed rapeâ€“rice rotation pot experiment. Ecotoxicology and Environmental Safety, 2021, 225, 112765.	6.0	6
60	Removal of fluoride and total dissolved solids from coalbed methane produced water with a movable ultra-low pressure reverse osmosis system. Desalination and Water Treatment, 2013, 51, 4359-4367.	1.0	5
61	Smallâ€Scale Spatial Variability of Phosphorus in a Paddy Soil. Communications in Soil Science and Plant Analysis, 2003, 34, 2791-2801.	1.4	4
62	Influence of nitrogen and elemental-sulfur fertilization on sulfur oxidation and mineralization in relation to soil moisture on a calcareous soil of the Inner Mongolia steppe of China. Journal of Plant Nutrition and Soil Science, 2005, 168, 228-232.	1.9	4
63	Effects of rice cropping intensity on soil nitrogen mineralization rate and potential in buried ancient paddy soils from the Neolithic Age in Chinaâ€™s Yangtze River Delta. Journal of Soils and Sediments, 2009, 9, 526-536.	3.0	4
64	2-bromoethanesulfonate (BES) Enhances Sulfate-reducing Bacterial Population and Dichlorodiphenyltrichloroethane (DDT) Dechlorination in an Anaerobic Paddy Soil. Soil and Sediment Contamination, 2012, 21, 732-738.	1.9	4
65	Effect of dietary vitamins in oral bioaccessibility of lead in contaminated soils based on the physiologically based extraction test. Science of the Total Environment, 2020, 747, 141299.	8.0	4
66	Effect of crop growth on the distribution and mineralization of soil sulfur fractions in the rhizosphere. , 2002, 165, 249.		1
67	Does sulfur application continue to reduce cadmium accumulation and increase the seed yield of oilseed rape (Brassica napus L.) at the maturity stage?. Journal of the Science of Food and Agriculture, 2021, , .	3.5	0