

Zueng-Sang Chen

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,802
citations

186265

28
h-index

128289

60
g-index

75
all docs

75
docs citations

75
times ranked

5149
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil carbon 4 per mille. <i>Geoderma</i> , 2017, 292, 59-86.	5.1	1,279
2	Relationships between soil properties and slope position in a lowland rain forest of southern Taiwan. <i>Geoderma</i> , 2004, 123, 131-142.	5.1	239
3	Effects of EDTA on solubility of cadmium, zinc, and lead and their uptake by rainbow pink and vetiver grass. <i>Chemosphere</i> , 2004, 55, 421-430.	8.2	126
4	Digestion Methods for Total Heavy Metals in Sediments and Soils. <i>Water, Air, and Soil Pollution</i> , 2002, 141, 189-205.	2.4	120
5	Natural speciation of Mn, Ni, and Zn at the micrometer scale in a clayey paddy soil using X-ray fluorescence, absorption, and diffraction. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4007-4034.	3.9	109
6	Title is missing!. <i>Plant Ecology</i> , 1997, 132, 229-241.	1.6	104
7	Remediation techniques and heavy metal uptake by different rice varieties in metal-contaminated soils of Taiwan: New aspects for food safety regulation and sustainable agriculture. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 31-52.	1.9	103
8	Soil organic carbon stocks in relation to elevation gradients in volcanic ash soils of Taiwan. <i>Geoderma</i> , 2013, 209-210, 119-127.	5.1	95
9	Soil organic carbon sequestration as affected by tillage, crop residue, and nitrogen application in rice-wheat rotation system. <i>Paddy and Water Environment</i> , 2012, 10, 95-102.	1.8	94
10	Functional composition drives ecosystem function through multiple mechanisms in a broadleaved subtropical forest. <i>Oecologia</i> , 2016, 182, 829-840.	2.0	89
11	Effect of chemical amendments on the concentration of cadmium and lead in long-term contaminated soils. <i>Chemosphere</i> , 2004, 57, 1459-1471.	8.2	85
12	The EDTA effect on phytoextraction of single and combined metals-contaminated soils using rainbow pink (<i>Dianthus chinensis</i>). <i>Chemosphere</i> , 2005, 60, 1062-1071.	8.2	75
13	Health Risk-Based Assessment and Management of Heavy Metals-Contaminated Soil Sites in Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 3595-3614.	2.6	68
14	Quantifying effects of habitat heterogeneity and other clustering processes on spatial distributions of tree species. <i>Ecology</i> , 2013, 94, 2436-2443.	3.2	63
15	Trait-mediated effects of environmental filtering on tree community dynamics. <i>Journal of Ecology</i> , 2013, 101, 722-733.	4.0	55
16	Cadmium-induced physiological response and antioxidant enzyme changes in the novel cadmium accumulator, <i>Tagetes patula</i> . <i>Journal of Hazardous Materials</i> , 2011, 189, 724-731.	12.4	54
17	The joy of teaching soil science. <i>Geoderma</i> , 2014, 217-218, 1-9.	5.1	52
18	USING A SOIL QUALITY INDEX TO ASSESS THE EFFECTS OF APPLYING SWINE MANURE COMPOST ON SOIL QUALITY UNDER A CROP ROTATION SYSTEM IN TAIWAN. <i>Soil Science</i> , 2006, 171, 210-222.	0.9	51

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19	Chelator effects on bioconcentration and translocation of cadmium by hyperaccumulators, <i>Tagetes patula</i> and <i>Impatiens walleriana</i> . <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 173-178.	6.0	48
20	Cadmium and lead contamination of soils near plastic stabilizing materials producing plants in Northern Taiwan. <i>Water, Air, and Soil Pollution</i> , 1991, 57-58, 745-754.	2.4	45
21	Pedogenic development of volcanic ash soils along a climosequence in Northern Taiwan. <i>Geoderma</i> , 2010, 156, 48-59.	5.1	40
22	Saturation, Reduction, and Redox Morphology of Seasonally Flooded Alfisols in Taiwan. <i>Soil Science Society of America Journal</i> , 1996, 60, 941-949.	2.2	37
23	Carbon and nitrogen mineralization of sewage sludge compost in soils with a different initial pH. <i>Soil Science and Plant Nutrition</i> , 2009, 55, 715-724.	1.9	37
24	Characterization of Placic Horizons in Two Subalpine Forest Inceptisols. <i>Soil Science Society of America Journal</i> , 1999, 63, 941-947.	2.2	31
25	The influence of EDTA application on the interactions of cadmium, zinc, and lead and their uptake of rainbow pink (<i>Dianthus chinensis</i>). <i>Journal of Hazardous Materials</i> , 2006, 137, 1710-1718.	12.4	30
26	Pedogenic approach to resolving the geomorphic evolution of the Pakua river terraces in central Taiwan. <i>Geomorphology</i> , 2007, 83, 14-28.	2.6	30
27	Hydropedological Implications of Ferromanganiferous Nodules in Rice-Growing Plinthitic Ultisols under Different Moisture Regimes. <i>Soil Science Society of America Journal</i> , 2010, 74, 880-891.	2.2	30
28	Large-Area Experiment on Uptake of Metals by Twelve Plants Growing in Soils Contaminated with Multiple Metals. <i>International Journal of Phytoremediation</i> , 2010, 12, 785-797.	3.1	30
29	A RIVER TERRACE SOIL CHRONOSEQUENCE OF THE PAKUA TABLELAND IN CENTRAL TAIWAN. <i>Soil Science</i> , 2006, 171, 167-179.	0.9	29
30	Lead contamination around a kindergarten near a battery recycling plant. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1992, 49, 23-30.	2.7	28
31	CLAY MINERALOGY OF SPodosOLS WITH HIGH CLAY CONTENTS IN THE SUBALPINE FORESTS OF TAIWAN. <i>Clays and Clay Minerals</i> , 2002, 50, 726-735.	1.3	27
32	Subalpine Loamy Spodosols in Taiwan: Characteristics, Micromorphology, and Genesis. <i>Soil Science Society of America Journal</i> , 1998, 62, 710-716.	2.2	26
33	Quantifying Soil Hydromorphology of a Rice-Growing Ultisol Toposequence in Taiwan. <i>Soil Science Society of America Journal</i> , 2001, 65, 270-278.	2.2	25
34	Mineral nutrient status of tree species in relation to environmental factors in the subtropical rain forest of Taiwan. <i>Forest Ecology and Management</i> , 2007, 239, 81-91.	3.2	25
35	Linking leaf veins to growth and mortality rates: an example from a subtropical tree community. <i>Ecology and Evolution</i> , 2016, 6, 6085-6096.	1.9	23
36	Altitudinal zonation of evergreen broad-leaved forest on Mount Lopei, Taiwan. <i>Journal of Vegetation Science</i> , 1998, 9, 201-212.	2.2	22

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37	Characteristics and genesis of Inceptisols with placic horizons in the subalpine forest soils of Taiwan. <i>Geoderma</i> , 2005, 125, 331-341.	5.1	22
38	SOIL CHARACTERISTICS AND CLAY MINERALOGY OF TWO SUBALPINE FOREST SPodosols WITH CLAY ACCUMULATION IN TAIWAN. <i>Soil Science</i> , 2004, 169, 66-80.	0.9	21
39	Soil genesis along a chronosequence on marine terraces in eastern Taiwan. <i>Catena</i> , 2007, 71, 394-405.	5.0	21
40	Pot Experiment to Study the Uptake of Cd and Pb by Three Indian Mustards (<i>Brassica Juncea</i>) Grown in Artificially Contaminated Soils. <i>International Journal of Phytoremediation</i> , 2008, 10, 91-105.	3.1	21
41	LITHOLOGIC DISCONTINUITIES IN ULTISOLS ALONG A TOPOSEQUENCE IN TAIWAN. <i>Soil Science</i> , 2000, 165, 587-596.	0.9	21
42	Bioavailability Assessment and Accumulation by Five Garden Flower Species Grown in Artificially Cadmium-Contaminated Soils. <i>International Journal of Phytoremediation</i> , 2010, 12, 454-467.	3.1	20
43	GENESIS OF INCEPTISOLS ON A VOLCANIC LANDSCAPE IN TAIWAN. <i>Soil Science</i> , 2001, 166, 255-266.	0.9	19
44	IN-SITUSELECTION OF SUITABLE PLANTS FOR THE PHYTOREMEDIATION OF MULTI-METALS-CONTAMINATED SITES IN CENTRAL TAIWAN. <i>International Journal of Phytoremediation</i> , 2009, 11, 235-250.	3.1	19
45	Quantifying nickel in soils and plants in an ultramafic area in Philippines. <i>Environmental Monitoring and Assessment</i> , 2010, 167, 505-514.	2.7	19
46	Soil and phosphorus redistribution along a steep tea plantation in the Feitsui reservoir catchment of northern Taiwan. <i>Soil Science and Plant Nutrition</i> , 2008, 54, 618-626.	1.9	17
47	CHARACTERISTICS AND GENESIS OF VOLCANIC SOILS ALONG A TOPOSEQUENCE UNDER A SUBTROPICAL CLIMATE IN TAIWAN. <i>Soil Science</i> , 1999, 164, 510-525.	0.9	16
48	MORPHOLOGY, PHYSIOCHEMICAL CHARACTERISTICS, AND FERTILITY OF SOILS FROM QUATERNARY LIMESTONE IN LEYTE, PHILIPPINES. <i>Soil Science</i> , 2006, 171, 648-661.	0.9	15
49	TRANSITIONAL SOIL CHARACTERISTICS OF ULTISOLS AND SPodosols IN THE SUBALPINE FOREST OF TAIWAN. <i>Soil Science</i> , 2004, 169, 457-467.	0.9	14
50	RELATIONS BETWEEN MORPHOLOGICAL COLOR INDEX AND SOIL WETNESS CONDITION OF ANTHRAQUIC SOILS IN TAIWAN. <i>Soil Science</i> , 2004, 169, 871-882.	0.9	14
51	Subtropical Soil Chronosequence on Holocene Marine Terraces in Eastern Taiwan. <i>Soil Science Society of America Journal</i> , 2010, 74, 1271-1283.	2.2	13
52	Relationships between topography and spatial variations in groundwater and soil morphology within the Taoyuan-Hukou Tableland, Northwestern Taiwan. <i>Geomorphology</i> , 2007, 90, 36-54.	2.6	12
53	Soil morphological variations on the Taoyuan Terrace, Northwestern Taiwan: Roles of topography and groundwater. <i>Geomorphology</i> , 2005, 69, 138-151.	2.6	11
54	Soilscape of west-central Taiwan: Its pedogenesis and geomorphic implications. <i>Geomorphology</i> , 2016, 255, 81-94.	2.6	11

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55	Multi-dose applying EDTA to decrease the potential groundwater contamination using rainbow pink (<i>Dianthus chinensis</i>) for enhanced phytoextraction. <i>Desalination</i> , 2007, 210, 236-247.	8.2	10
56	Pedogenic properties of surface deposits used as evidence for the type of landform formation of the Tadu tableland in central Taiwan. <i>Geomorphology</i> , 2010, 114, 590-600.	2.6	10
57	Net nitrogen mineralization and nitrification of different landscape positions in a lowland subtropical rainforest in Taiwan. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 319-331.	1.9	8
58	Food Safety and Bioavailability Evaluations of Four Vegetables Grown in the Highly Arsenic-Contaminated Soils on the Guandu Plain of Northern Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 4091-4107.	2.6	8
59	The Effects of Compost-Derived Dissolved Organic Carbon on Cd, Zn, and Cu Release From Metal-Spiked Soils. <i>Soil Science</i> , 2010, 175, 552-561.	0.9	6
60	Sampling Design for Studying the Relationships between Heavy Metals in Soils, Sediments, and Discharged Wastewaters. , 0, , 365-378.		5
61	Rice-wheat cropping system: tillage, mulch, and nitrogen effects on soil carbon sequestration and crop productivity. <i>Paddy and Water Environment</i> , 2017, 15, 699-710.	1.8	5
62	Morphology and pedogenesis of placic horizons in podzolic Ultisols with high clay content in humid subtropical forests. <i>Geoderma</i> , 2019, 353, 243-251.	5.1	5
63	Heavy-Metal Bioavailability and Chelate Mobilization Efficiency in an Assisted Phytoextraction Process by <i>Sesbania sesban</i> (L.) Merr. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 231-245.	1.4	4
64	BASELINE CONCENTRATIONS OF TEN METALS IN THE FRESHWATER SEDIMENTS OF A WATERSHED IN TAIWAN. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2002, 37, 1633-1647.	1.7	3
65	Correcting the classification of plinthic Ultisols on aged alluvial terraces in Taiwan. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 458-468.	1.9	2
66	Soil connectivity makes university social responsibility practice in Taiwan. <i>Soil Security</i> , 2022, 6, 100046.	2.3	2
67	Soil Profile Imaging for Estimating the Depth Distributions of Clay, Iron, and Hydrological Conditions of Soils Under Rice in Northern Taiwan. <i>Progress in Soil Science</i> , 2016, , 145-163.	0.8	1
68	Taiwan's Experiences on Soil Amendments, Phytoremediation, and Soil Water Managements for the Cadmium- and Arsenic-Contaminated Soils. , 2018, , 441-451.		1
69	The Study of Gaining More Detailed Variability Information of Soil Organic Carbon in Surface Soils and Its Significance to Enriching the Existing Soil Database. <i>Sustainability</i> , 2020, 12, 4866.	3.2	1
70	Andisols. <i>World Soils Book Series</i> , 2015, , 35-54.	0.2	1
71	Asian Anthroscapes: China and Taiwan. , 2010, , 205-241.		0
72	Spodosols. <i>World Soils Book Series</i> , 2015, , 83-94.	0.2	0

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73	Soil Survey, Information System, and Soil Classification. World Soils Book Series, 2015, , 11-23.	0.2	0
74	Effects of Biosolids on the Transpiration Rate of Rainbow Pink (<i>Dianthus chinensis</i>) Grown in Cadmium-Contaminated Soils. , 2015, , 191-197.		0