Chiu-Yu Chiu

List of Publications by Year
in descending order

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91 papers	2,134 citations	218677 26 h-index	289244 40 g-index
99 all docs	99 docs citations	99 times ranked	2444 citing authors

#	Article	IF	Citations
1	Effects of weatherâ€related episodic events in lakes: an analysis based on highâ€frequency data. Freshwater Biology, 2012, 57, 589-601.	2.4	135
2	Differences in the composition and diversity of bacterial communities from agricultural and forest soils. Soil Biology and Biochemistry, 2008, 40, 1294-1305.	8.8	105
3	Characterization of soil organic matter in different particle-size fractions in humid subalpine soils by CP/MAS 13C NMR. Geoderma, 2003, 117, 129-141.	5.1	97
4	Typhoons initiate predictable change in aquatic bacterial communities. Limnology and Oceanography, 2008, 53, 1319-1326.	3.1	73
5	Changes in soil microbial community structure and activity in a cedar plantation invaded by moso bamboo. Applied Soil Ecology, 2015, 91, 1-7.	4.3	68
6	Seasonal dynamics of soil microbial biomass in coastal sand dune forest. Pedobiologia, 2005, 49, 645-653.	1.2	67
7	Phylogenetically distinct methanotrophs modulate methane oxidation in rice paddies across Taiwan. Soil Biology and Biochemistry, 2018, 124, 59-69.	8.8	63
8	Changes in the Soil Bacterial Communities in a Cedar Plantation Invaded by Moso Bamboo. Microbial Ecology, 2014, 67, 421-429.	2.8	62
9	Title is missing!. Plant and Soil, 2001, 231, 37-44.	3.7	58
10	Seasonal dynamics, typhoons and the regulation of lake metabolism in a subtropical humic lake. Freshwater Biology, 2008, 53, 1929-1941.	2.4	56
11	Functional response of the soil microbial community to biochar applications. GCB Bioenergy, 2021, 13, 269-281.	5.6	56
12	The distribution and influence of heavy metals in mangrove forests of the Tamshui Estuary in Taiwan. Soil Science and Plant Nutrition, 1991, 37, 659-669.	1.9	49
13	Particle size fractionation of fungal and bacterial biomass in subalpine grassland and forest soils. Geoderma, 2006, 130, 265-271.	5.1	48
14	The effect of altitudinal gradient on soil microbial community activity and structure in moso bamboo plantations. Applied Soil Ecology, 2016, 98, 213-220.	4.3	44
15	Bacterial Community Diversity in Undisturbed Perhumid Montane Forest Soils in Taiwan. Microbial Ecology, 2010, 59, 369-378.	2.8	43
16	Invasion of moso bamboo into a Japanese cedar plantation affects the chemical composition and humification of soil organic matter. Scientific Reports, 2016, 6, 32211.	3.3	36
17	Change in Bacterial Community Structure in Response to Disturbance of Natural Hardwood and Secondary Coniferous Forest Soils in Central Taiwan. Microbial Ecology, 2011, 61, 429-437.	2.8	35
18	Effect of topography on the composition of soil organic substances in a perhumid sub-tropical montane forest ecosystem in Taiwan. Geoderma, 2000, 96, 19-30.	5.1	34

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19	Changes of soil bacterial communities in bamboo plantations at different elevations. FEMS Microbiology Ecology, 2015, 91, .	2.7	33
20	Biogeochemical Processes of C and N in the Soil of Mangrove Forest Ecosystems. Forests, 2020, 11, 492.	2.1	32
21	Seasonal and Episodic Lake Mixing Stimulate Differential Planktonic Bacterial Dynamics. Microbial Ecology, 2010, 59, 546-554.	2.8	31
22	Community Structure of Active Aerobic Methanotrophs in Red Mangrove (Kandelia obovata) Soils Under Different Frequency of Tides. Microbial Ecology, 2018, 75, 761-770.	2.8	30
23	Soluble organic C and N and their relationships with soil organic C and N and microbial characteristics in moso bamboo (Phyllostachys edulis) plantations along an elevation gradient in Central Taiwan. Journal of Soils and Sediments, 2014, 14, 1061-1070.	3.0	29
24	Cedar and bamboo plantations alter structure and diversity of the soil bacterial community from a hardwood forest in subtropical mountain. Applied Soil Ecology, 2017, 112, 28-33.	4.3	29
25	Denitrification associated N loss in mangrove soil. Nutrient Cycling in Agroecosystems, 2004, 69, 185-189.	2.2	28
26	Soil bacterial communities in native and regenerated perhumid montane forests. Applied Soil Ecology, 2011, 47, 111-118.	4.3	27
27	Changes in Soil Biochemical Properties in a Cedar Plantation Invaded by Moso Bamboo. Forests, 2017, 8, 222.	2.1	26
28	Oxidation in the rhizosphere of mangroveKandelia candelseedlings. Soil Science and Plant Nutrition, 1993, 39, 725-731.	1.9	25
29	Distribution of the radionuclide 137Cs in the soils of a wet mountainous forest in Taiwan. Applied Radiation and Isotopes, 1999, 50, 1097-1103.	1.5	25
30	Metabolic changes and the resistance and resilience of a subtropical heterotrophic lake to typhoon disturbance. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 768-780.	1.4	25
31	Influence of typhoons on annual CO₂ flux from a subtropical, humic lake. Global Change Biology, 2009, 15, 243-254.	9.5	23
32	Water salinity effects on growth and nitrogen assimilation rate of mangrove (Kandelia candel) seedlings. Aquatic Botany, 2017, 137, 50-55.	1.6	23
33	Effects of temperature on the composition and diversity of bacterial communities in bamboo soils at different elevations. Biogeosciences, 2017, 14, 4879-4889.	3.3	23
34	Soil microbial communities and activities in sand dunes of subtropical coastal forests. Applied Soil Ecology, 2011, 49, 256-262.	4.3	22
35	Effects of afforestation on soil organic matter characteristics under subtropical forests with low elevation. Journal of Forest Research, 2011, 16, 275-283.	1.4	21
36	Factors Influencing Removal of Sewage Nitrogen Through Denitrification in Mangrove Soils. Wetlands, 2016, 36, 621-630.	1.5	21

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37	Improvement in the biochemical and chemical properties of badland soils by thorny bamboo. Scientific Reports, 2017, 7, 40561.	3.3	21
38	Comparison of soil bacterial communities in a natural hardwood forest and coniferous plantations in perhumid subtropical low mountains. , 2014, 55, 50.		20
39	Structure and Diversity of Soil Bacterial Communities in Offshore Islands. Scientific Reports, 2019, 9, 4689.	3.3	20
40	Terrestrial loads of dissolved organic matter drive inter-annual carbon flux in subtropical lakes during times of drought. Science of the Total Environment, 2020, 717, 137052.	8.0	19
41	Comparison of soil bacterial communities between coastal and inland forests in a subtropical area. Applied Soil Ecology, 2012, 60, 49-55.	4.3	18
42	¹³C-NMR spectroscopy studies of humic substances in subtropical perhumid montane forest soil. Journal of Forest Research, 2012, 17, 458-467.	1.4	18
43	Composition of bacterial communities in sand dunes of subtropical coastal forests. Biology and Fertility of Soils, 2014, 50, 809-814.	4.3	18
44	LOW-MOLECULAR-WEIGHT ORGANIC ACID EXUDATION OF RAPE (BRASSICA CAMPESTRIS) ROOTS IN CESIUM-CONTAMINATED SOILS. Soil Science, 2005, 170, 726-733.	0.9	17
45	Bacterial Community in Water and Air of Two Sub-Alpine Lakes in Taiwan. Microbes and Environments, 2018, 33, 120-126.	1.6	17
46	Topographical and seasonal effects on soil fungal and bacterial activity in subtropical, perhumid, primary and regenerated montane forests. Soil Biology and Biochemistry, 2002, 34, 711-720.	8.8	16
47	Clay mineralogical characterization of a toposequence of perhumid subalpine forest soils in northeastern Taiwan. Geoderma, 2007, 138, 177-184.	5.1	16
48	Humic Acid Composition and Characteristics of Soil Organic Matter in Relation to the Elevation Gradient of Moso Bamboo Plantations. PLoS ONE, 2016, 11, e0162193.	2.5	16
49	Transfer of137Cs from soil to plants in a wet montane forest in subtropical Taiwan. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 511-515.	1.5	15
50	Effect of 40 and 80 Years of Conifer Regrowth on Soil Microbial Activities and Community Structure in Subtropical Low Mountain Forests. Forests, 2016, 7, 244.	2.1	15
51	Replacement of natural hardwood forest with planted bamboo and cedar in a humid subtropical mountain affects soil microbial community. Applied Soil Ecology, 2018, 124, 146-154.	4.3	15
52	Soil Microbial Communities in Natural and Managed Cloud Montane Forests. Forests, 2017, 8, 33.	2.1	14
53	Barley growth in response to potassium fertilization of soil with long term application of sewage sludge. Soil Science and Plant Nutrition, 1999, 45, 499-504.	1.9	13
54	Influence of Thermal Stratification on Seasonal Net Ecosystem Production and Dissolved Inorganic Carbon in a Shallow Subtropical Lake. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005907.	3.0	13

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55	Physical and chemical properties in rhizosphere and bulk soils of Tsuga and Yushania in a temperate rain forest. Communications in Soil Science and Plant Analysis, 2002, 33, 1723-1735.	1.4	12
56	Assessing the effects of severe rainstorm-induced mixing on a subtropical, subalpine lake. Environmental Monitoring and Assessment, 2014, 186, 3091-3114.	2.7	12
57	Assessing N2 fixation in estuarine mangrove soils. Estuarine, Coastal and Shelf Science, 2017, 189, 84-89.	2.1	12
58	Niche Differentiation of Active Methane-Oxidizing Bacteria in Estuarine Mangrove Forest Soils in Taiwan. Microorganisms, 2020, 8, 1248.	3.6	12
59	The impacts of the hydraulic retention effect and typhoon disturbance on the carbon flux in shallow subtropical mountain lakes. Science of the Total Environment, 2022, 803, 150044.	8.0	12
60	Characterization of phosphorus in sub-alpine forest and adjacent grassland soils by chemical extraction and phosphorus-31 nuclear magnetic resonance spectroscopy. Pedobiologia, 2005, 49, 655-663.	1.2	11
61	Real-time observation and prediction of physical processes in a typhoon-affected lake. Paddy and Water Environment, 2012, 10, 17-30.	1.8	11
62	Forms and distribution of phosphorus in a placic podzolic toposequence in a subtropical subalpine forest, Taiwan. Catena, 2016, 140, 145-154.	5.0	10
63	Effects of Reforestation on the Structure and Diversity of Bacterial Communities in Subtropical Low Mountain Forest Soils. Frontiers in Microbiology, 2018, 9, 1968.	3.5	10
64	Bacterial community of very wet and acidic subalpine forest and fire-induced grassland soils. Plant and Soil, 2010, 332, 417-427.	3.7	9
65	Absence of winter and spring monsoon changes water level and rapidly shifts metabolism in a subtropical lake. Inland Waters, 2016, 6, 436-448.	2.2	9
66	13C NMR spectroscopy characterization of particle-size fractionated soil organic carbon in subalpine forest and grassland ecosystems. , 2017, 58, 23.		9
67	Relationships Between Soil Mass Movement and Relief in Humid Subtropical Low-Elevation Mountains. Soil Science, 2009, 174, 563-573.	0.9	8
68	Characterization of soil organic matter in perhumid natural cypress forest: comparison of humification in different particle-size fractions. , 2013, 54, 56.		8
69	Assessing Impacts of Metallic Contamination along the Tidal Gradient of a Riverine Mangrove: Multi-metal Bioaccumulation and Biomagnification of Filter-Feeding Bivalves. Forests, 2020, 11, 504.	2.1	8
70	Elevation gradient of soil bacterial communities in bamboo plantations. , 2016, 57, 8.		7
71	Characterization of Phosphorus in a Toposequence of Subtropical Perhumid Forest Soils Facing a Subalpine Lake. Forests, 2018, 9, 294.	2.1	7
72	Soil bacterial communities at the treeline in subtropical alpine areas. Catena, 2021, 201, 105205.	5.0	7

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73	Estimation of N2fixation in soybean and cowpea by using soil residual15N. Soil Science and Plant Nutrition, 1990, 36, 375-381.	1.9	6
74	The Effect of Re-Planting Trees on Soil Microbial Communities in a Wildfire-Induced Subalpine Grassland. Forests, 2017, 8, 385.	2.1	6
75	Dynamics of Methane in Mangrove Forest: Will It Worsen with Decreasing Mangrove Forests?. Forests, 2021, 12, 1204.	2.1	6
76	Characterization of Phosphorus in Subtropical Coastal Sand Dune Forest Soils. Forests, 2018, 9, 710.	2.1	5
77	Composition and Activity of N2-Fixing Microorganisms in Mangrove Forest Soils. Forests, 2021, 12, 822.	2.1	5
78	Evaluation of N2fixation by applying15N labeled plant material and ammonium sulfate. Soil Science and Plant Nutrition, 1989, 35, 651-657.	1.9	4
79	The influences of typhoonâ€induced mixing in a shallow lake. Lakes and Reservoirs: Research and Management, 2012, 17, 171-183.	0.9	4
80	Biogeographic Changes in Forest Soil Microbial Communities of Offshore Islandsâ€”A Case Study of Remote Islands in Taiwan. Forests, 2021, 12, 4.	2.1	4
81	Microbial distribution and function across wheat rhizosphere with oxamide and ammonium sulfate as N sources. Soil Science and Plant Nutrition, 2000, 46, 787-796.	1.9	3
82	Spectral features of humic substances in a perhumid subtropical montane forest ecosystem, Taiwan. Soil Science and Plant Nutrition, 2001, 47, 179-185.	1.9	3
83	The influences of thorny bamboo growth on the bacterial community in badland soils of southwestern Taiwan. Land Degradation and Development, 2018, 29, 2728-2738.	3.9	3
84	Aquatic microbial community is partially functionally redundant: Insights from an in situ reciprocal transplant experiment. Science of the Total Environment, 2021, 786, 147433.	8.0	3
85	Estimation of N2fixation of soybean by comparison of different15N labeling methods. Soil Science and Plant Nutrition, 1990, 36, 383-388.	1.9	1
86	Improvements in Soil C and N Compositions After 40 and 80ÂYears of Reforestation in Subtropical Low Mountain Forests. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005598.	3.0	1
87	Sequestration of P fractions in the soils of an incipient ferralisation chronosequence on a humid tropical volcanic island. , 2021, 62, 20.		1
88	Great fraction of dissolved organic C and N in the primary per-humid Chamaecyparis forest soil. , 2015, 56, 27.		0
89	Response of Humic Acids and Soil Organic Matter to Vegetation Replacement in Subtropical High Mountain Forests. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3727-3736.	3.0	0
90	Distribution of Cu and Zn in soils and mangroves (Kandelia candel) in a polluted estuary. , 1993, , 783-786.		0

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91	The toxicity of Cu on the seedlings of a mangrove (Kandelia candel) in the presence of NaCl. , 1997, , 129-130.		0