

# Chiu-Yu Chiu

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | The impacts of the hydraulic retention effect and typhoon disturbance on the carbon flux in shallow subtropical mountain lakes. <i>Science of the Total Environment</i> , 2022, 803, 150044.                                | 8.0 | 12        |
| 2  | Functional response of the soil microbial community to biochar applications. <i>GCB Bioenergy</i> , 2021, 13, 269-281.  | 5.6 | 56        |
| 3  | Influence of Thermal Stratification on Seasonal Net Ecosystem Production and Dissolved Inorganic Carbon in a Shallow Subtropical Lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005907. | 3.0 | 13        |
| 4  | Soil bacterial communities at the treeline in subtropical alpine areas. <i>Catena</i> , 2021, 201, 105205.  | 5.0 | 7         |
| 5  | Composition and Activity of N <sub>2</sub> -Fixing Microorganisms in Mangrove Forest Soils. <i>Forests</i> , 2021, 12, 822.   | 2.1 | 5         |
| 6  | Dynamics of Methane in Mangrove Forest: Will It Worsen with Decreasing Mangrove Forests?. <i>Forests</i> , 2021, 12, 1204.  | 2.1 | 6         |
| 7  | Aquatic microbial community is partially functionally redundant: Insights from an in situ reciprocal transplant experiment. <i>Science of the Total Environment</i> , 2021, 786, 147433.                                    | 8.0 | 3         |
| 8  | Biogeographic Changes in Forest Soil Microbial Communities of Offshore Islands—A Case Study of Remote Islands in Taiwan. <i>Forests</i> , 2021, 12, 4.  | 2.1 | 4         |
| 9  | Sequestration of P fractions in the soils of an incipient ferralite chronosequence on a humid tropical volcanic island. , 2021, 62, 20.   |     | 1         |
| 10 | Improvements in Soil C and N Compositions After 40 and 80 Years of Reforestation in Subtropical Low Mountain Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005598.                  | 3.0 | 1         |
| 11 | Niche Differentiation of Active Methane-Oxidizing Bacteria in Estuarine Mangrove Forest Soils in Taiwan. <i>Microorganisms</i> , 2020, 8, 1248.   | 3.6 | 12        |
| 12 | Biogeochemical Processes of C and N in the Soil of Mangrove Forest Ecosystems. <i>Forests</i> , 2020, 11, 492.  | 2.1 | 32        |
| 13 | Assessing Impacts of Metallic Contamination along the Tidal Gradient of a Riverine Mangrove: Multi-metal Bioaccumulation and Biomagnification of Filter-Feeding Bivalves. <i>Forests</i> , 2020, 11, 504.                   | 2.1 | 8         |
| 14 | Terrestrial loads of dissolved organic matter drive inter-annual carbon flux in subtropical lakes during times of drought. <i>Science of the Total Environment</i> , 2020, 717, 137052.                                     | 8.0 | 19        |
| 15 | Response of Humic Acids and Soil Organic Matter to Vegetation Replacement in Subtropical High Mountain Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3727-3736.                            | 3.0 | 0         |
| 16 | Structure and Diversity of Soil Bacterial Communities in Offshore Islands. <i>Scientific Reports</i> , 2019, 9, 4689.   | 3.3 | 20        |
| 17 | The influences of thorny bamboo growth on the bacterial community in badland soils of southwestern Taiwan. <i>Land Degradation and Development</i> , 2018, 29, 2728-2738.   | 3.9 | 3         |
| 18 | Bacterial Community in Water and Air of Two Sub-Alpine Lakes in Taiwan. <i>Microbes and Environments</i> , 2018, 33, 120-126.   | 1.6 | 17        |

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|----|--|-----|-----------|
| 19 | Community Structure of Active Aerobic Methanotrophs in Red Mangrove ( <i>Kandelia obovata</i> ) Soils Under Different Frequency of Tides. <i>Microbial Ecology</i> , 2018, 75, 761-770.    | 2.8 | 30        |
| 20 | Replacement of natural hardwood forest with planted bamboo and cedar in a humid subtropical mountain affects soil microbial community. <i>Applied Soil Ecology</i> , 2018, 124, 146-154.   | 4.3 | 15        |
| 21 | Characterization of Phosphorus in Subtropical Coastal Sand Dune Forest Soils. <i>Forests</i> , 2018, 9, 710.   | 2.1 | 5         |
| 22 | Effects of Reforestation on the Structure and Diversity of Bacterial Communities in Subtropical Low Mountain Forest Soils. <i>Frontiers in Microbiology</i> , 2018, 9, 1968.               | 3.5 | 10        |
| 23 | Phylogenetically distinct methanotrophs modulate methane oxidation in rice paddies across Taiwan. <i>Soil Biology and Biochemistry</i> , 2018, 124, 59-69.                                 | 8.8 | 63        |
| 24 | Characterization of Phosphorus in a Toposequence of Subtropical Perhumid Forest Soils Facing a Subalpine Lake. <i>Forests</i> , 2018, 9, 294.  | 2.1 | 7         |
| 25 | Cedar and bamboo plantations alter structure and diversity of the soil bacterial community from a hardwood forest in subtropical mountain. <i>Applied Soil Ecology</i> , 2017, 112, 28-33. | 4.3 | 29        |
| 26 | Improvement in the biochemical and chemical properties of badland soils by thorny bamboo. <i>Scientific Reports</i> , 2017, 7, 40561.  | 3.3 | 21        |
| 27 | Assessing N <sub>2</sub> fixation in estuarine mangrove soils. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 189, 84-89.   | 2.1 | 12        |
| 28 | <sup>13</sup> C NMR spectroscopy characterization of particle-size fractionated soil organic carbon in subalpine forest and grassland ecosystems. , 2017, 58, 23.                          |     | 9         |
| 29 | Water salinity effects on growth and nitrogen assimilation rate of mangrove ( <i>Kandelia candel</i> ) seedlings. <i>Aquatic Botany</i> , 2017, 137, 50-55.                                | 1.6 | 23        |
| 30 | Effects of temperature on the composition and diversity of bacterial communities in bamboo soils at different elevations. <i>Biogeosciences</i> , 2017, 14, 4879-4889.                     | 3.3 | 23        |
| 31 | Soil Microbial Communities in Natural and Managed Cloud Montane Forests. <i>Forests</i> , 2017, 8, 33.   | 2.1 | 14        |
| 32 | Changes in Soil Biochemical Properties in a Cedar Plantation Invaded by Moso Bamboo. <i>Forests</i> , 2017, 8, 222.  | 2.1 | 26        |
| 33 | The Effect of Re-Planting Trees on Soil Microbial Communities in a Wildfire-Induced Subalpine Grassland. <i>Forests</i> , 2017, 8, 385.  | 2.1 | 6         |
| 34 | Absence of winter and spring monsoon changes water level and rapidly shifts metabolism in a subtropical lake. <i>Inland Waters</i> , 2016, 6, 436-448.                                     | 2.2 | 9         |
| 35 | Effect of 40 and 80 Years of Conifer Regrowth on Soil Microbial Activities and Community Structure in Subtropical Low Mountain Forests. <i>Forests</i> , 2016, 7, 244.                     | 2.1 | 15        |
| 36 | Invasion of moso bamboo into a Japanese cedar plantation affects the chemical composition and humification of soil organic matter. <i>Scientific Reports</i> , 2016, 6, 32211.             | 3.3 | 36        |

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|----|--|-----|-----------|
| 37 | Factors Influencing Removal of Sewage Nitrogen Through Denitrification in Mangrove Soils. Wetlands, 2016, 36, 621-630.   | 1.5 | 21        |
| 38 | Forms and distribution of phosphorus in a placic podzolic toposequence in a subtropical subalpine forest, Taiwan. Catena, 2016, 140, 145-154.  | 5.0 | 10        |
| 39 | Elevation gradient of soil bacterial communities in bamboo plantations. , 2016, 57, 8.   |     | 7         |
| 40 | 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        |
| 41 | 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        |
| 42 | Great fraction of dissolved organic C and N in the primary per-humid Chamaecyparis forest soil. , 2015, 56, 27.  |     | 0         |
| 43 | Changes of soil bacterial communities in bamboo plantations at different elevations. FEMS Microbiology Ecology, 2015, 91, .  | 2.7 | 33        |
| 44 | 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        |
| 45 | Assessing the effects of severe rainstorm-induced mixing on a subtropical, subalpine lake. Environmental Monitoring and Assessment, 2014, 186, 3091-3114.  | 2.7 | 12        |
| 46 | Changes in the Soil Bacterial Communities in a Cedar Plantation Invaded by Moso Bamboo. Microbial Ecology, 2014, 67, 421-429.  | 2.8 | 62        |
| 47 | Composition of bacterial communities in sand dunes of subtropical coastal forests. Biology and Fertility of Soils, 2014, 50, 809-814.  | 4.3 | 18        |
| 48 | Comparison of soil bacterial communities in a natural hardwood forest and coniferous plantations in perhumid subtropical low mountains. , 2014, 55, 50.  |     | 20        |
| 49 | Soluble organic C and N and their relationships with soil organic C and N and microbial characteristics in moso bamboo ( <i>Phyllostachys edulis</i> ) plantations along an elevation gradient in Central Taiwan. Journal of Soils and Sediments, 2014, 14, 1061-1070. | 3.0 | 29        |
| 50 | Characterization of soil organic matter in perhumid natural cypress forest: comparison of humification in different particle-size fractions. , 2013, 54, 56.   |     | 8         |
| 51 | Comparison of soil bacterial communities between coastal and inland forests in a subtropical area. Applied Soil Ecology, 2012, 60, 49-55.  | 4.3 | 18        |
| 52 | The influences of typhoon-induced mixing in a shallow lake. Lakes and Reservoirs: Research and Management, 2012, 17, 171-183.  | 0.9 | 4         |
| 53 | <sup>13</sup> C-NMR spectroscopy studies of humic substances in subtropical perhumid montane forest soil. Journal of Forest Research, 2012, 17, 458-467.   | 1.4 | 18        |
| 54 | Effects of weather-related episodic events in lakes: an analysis based on high-frequency data. Freshwater Biology, 2012, 57, 589-601.  | 2.4 | 135       |

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|----|--|-----|-----------|
| 55 | Real-time observation and prediction of physical processes in a typhoon-affected lake. <i>Paddy and Water Environment</i> , 2012, 10, 17-30.   | 1.8 | 11        |
| 56 | Metabolic changes and the resistance and resilience of a subtropical heterotrophic lake to typhoon disturbance. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 768-780. | 1.4 | 25        |
| 57 | Soil bacterial communities in native and regenerated perhumid montane forests. <i>Applied Soil Ecology</i> , 2011, 47, 111-118.  | 4.3 | 27        |
| 58 | Soil microbial communities and activities in sand dunes of subtropical coastal forests. <i>Applied Soil Ecology</i> , 2011, 49, 256-262.   | 4.3 | 22        |
| 59 | Effects of afforestation on soil organic matter characteristics under subtropical forests with low elevation. <i>Journal of Forest Research</i> , 2011, 16, 275-283.                           | 1.4 | 21        |
| 60 | Change in Bacterial Community Structure in Response to Disturbance of Natural Hardwood and Secondary Coniferous Forest Soils in Central Taiwan. <i>Microbial Ecology</i> , 2011, 61, 429-437.  | 2.8 | 35        |
| 61 | Bacterial Community Diversity in Undisturbed Perhumid Montane Forest Soils in Taiwan. <i>Microbial Ecology</i> , 2010, 59, 369-378.  | 2.8 | 43        |
| 62 | Seasonal and Episodic Lake Mixing Stimulate Differential Planktonic Bacterial Dynamics. <i>Microbial Ecology</i> , 2010, 59, 546-554.  | 2.8 | 31        |
| 63 | Bacterial community of very wet and acidic subalpine forest and fire-induced grassland soils. <i>Plant and Soil</i> , 2010, 332, 417-427.  | 3.7 | 9         |
| 64 | Influence of typhoons on annual CO <sub>2</sub> flux from a subtropical, humic lake. <i>Global Change Biology</i> , 2009, 15, 243-254.   | 9.5 | 23        |
| 65 | Relationships Between Soil Mass Movement and Relief in Humid Subtropical Low-Elevation Mountains. <i>Soil Science</i> , 2009, 174, 563-573.  | 0.9 | 8         |
| 66 | Seasonal dynamics, typhoons and the regulation of lake metabolism in a subtropical humic lake. <i>Freshwater Biology</i> , 2008, 53, 1929-1941.  | 2.4 | 56        |
| 67 | Differences in the composition and diversity of bacterial communities from agricultural and forest soils. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1294-1305.                          | 8.8 | 105       |
| 68 | Typhoons initiate predictable change in aquatic bacterial communities. <i>Limnology and Oceanography</i> , 2008, 53, 1319-1326.  | 3.1 | 73        |
| 69 | Clay mineralogical characterization of a toposequence of perhumid subalpine forest soils in northeastern Taiwan. <i>Geoderma</i> , 2007, 138, 177-184.   | 5.1 | 16        |
| 70 | Particle size fractionation of fungal and bacterial biomass in subalpine grassland and forest soils. <i>Geoderma</i> , 2006, 130, 265-271.   | 5.1 | 48        |
| 71 | LOW-MOLECULAR-WEIGHT ORGANIC ACID EXUDATION OF RAPE (BRASSICA CAMPESTRIS) ROOTS IN CESIUM-CONTAMINATED SOILS. <i>Soil Science</i> , 2005, 170, 726-733.  | 0.9 | 17        |
| 72 | Seasonal dynamics of soil microbial biomass in coastal sand dune forest. <i>Pedobiologia</i> , 2005, 49, 645-653.  | 1.2 | 67        |

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|----|--|-----|-----------|
| 73 | Characterization of phosphorus in sub-alpine forest and adjacent grassland soils by chemical extraction and phosphorus-31 nuclear magnetic resonance spectroscopy. <i>Pedobiologia</i> , 2005, 49, 655-663.    | 1.2 | 11        |
| 74 | Denitrification associated N loss in mangrove soil. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 69, 185-189.   | 2.2 | 28        |
| 75 | Characterization of soil organic matter in different particle-size fractions in humid subalpine soils by CP/MAS <sup>13</sup> C NMR. <i>Geoderma</i> , 2003, 117, 129-141.                                     | 5.1 | 97        |
| 76 | Physical and chemical properties in rhizosphere and bulk soils of <i>Tsuga</i> and <i>Yushania</i> in a temperate rain forest. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 1723-1735. | 1.4 | 12        |
| 77 | Topographical and seasonal effects on soil fungal and bacterial activity in subtropical, perhumid, primary and regenerated montane forests. <i>Soil Biology and Biochemistry</i> , 2002, 34, 711-720.          | 8.8 | 16        |
| 78 | Spectral features of humic substances in a perhumid subtropical montane forest ecosystem, Taiwan. <i>Soil Science and Plant Nutrition</i> , 2001, 47, 179-185.   | 1.9 | 3         |
| 79 | Title is missing!. <i>Plant and Soil</i> , 2001, 231, 37-44.   | 3.7 | 58        |
| 80 | Microbial distribution and function across wheat rhizosphere with oxamide and ammonium sulfate as N sources. <i>Soil Science and Plant Nutrition</i> , 2000, 46, 787-796.                                      | 1.9 | 3         |
| 81 | Effect of topography on the composition of soil organic substances in a perhumid sub-tropical montane forest ecosystem in Taiwan. <i>Geoderma</i> , 2000, 96, 19-30.   | 5.1 | 34        |
| 82 | Distribution of the radionuclide <sup>137</sup> Cs in the soils of a wet mountainous forest in Taiwan. <i>Applied Radiation and Isotopes</i> , 1999, 50, 1097-1103.  | 1.5 | 25        |
| 83 | Transfer of <sup>137</sup> Cs from soil to plants in a wet montane forest in subtropical Taiwan. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 239, 511-515.                                 | 1.5 | 15        |
| 84 | Barley growth in response to potassium fertilization of soil with long term application of sewage sludge. <i>Soil Science and Plant Nutrition</i> , 1999, 45, 499-504.   | 1.9 | 13        |
| 85 | The toxicity of Cu on the seedlings of a mangrove ( <i>Kandelia candel</i> ) in the presence of NaCl. , 1997, , 129-130.   |     | 0         |
| 86 | Oxidation in the rhizosphere of mangrove <i>Kandelia candel</i> seedlings. <i>Soil Science and Plant Nutrition</i> , 1993, 39, 725-731.  | 1.9 | 25        |
| 87 | Distribution of Cu and Zn in soils and mangroves ( <i>Kandelia candel</i> ) in a polluted estuary. , 1993, , 783-786.  |     | 0         |
| 88 | The distribution and influence of heavy metals in mangrove forests of the Tamshui Estuary in Taiwan. <i>Soil Science and Plant Nutrition</i> , 1991, 37, 659-669.  | 1.9 | 49        |
| 89 | Estimation of N <sub>2</sub> fixation of soybean by comparison of different <sup>15</sup> N labeling methods. <i>Soil Science and Plant Nutrition</i> , 1990, 36, 383-388.                                     | 1.9 | 1         |
| 90 | Estimation of N <sub>2</sub> fixation in soybean and cowpea by using soil residual <sup>15</sup> N. <i>Soil Science and Plant Nutrition</i> , 1990, 36, 375-381.   | 1.9 | 6         |

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|----|---|-----|-----------|
| 91 | Evaluation of N <sub>2</sub> fixation by applying <sup>15</sup> N labeled plant material and ammonium sulfate. Soil Science and Plant Nutrition, 1989, 35, 651-657. | 1.9 | 4         |