

Enqing Hou

List of Publications by Year in descending order

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65
papers

3,677
citations

218677

26
h-index

144013

57
g-index

71
all docs

71
docs citations

71
times ranked

5833
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Global meta-analysis shows pervasive phosphorus limitation of aboveground plant production in natural terrestrial ecosystems. <i>Nature Communications</i> , 2020, 11, 637.	12.8	310
3	Manure acts as a better fertilizer for increasing crop yields than synthetic fertilizer does by improving soil fertility. <i>Soil and Tillage Research</i> , 2019, 189, 168-175.	5.6	241
4	Effects of climate on soil phosphorus cycle and availability in natural terrestrial ecosystems. <i>Global Change Biology</i> , 2018, 24, 3344-3356.	9.5	197
5	Plant acclimation to long-term high nitrogen deposition in an N-rich tropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5187-5192.	7.1	164
6	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. <i>Plant and Soil</i> , 2018, 427, 191-208.	3.7	145
7	Altitudinal patterns and controls of plant and soil nutrient concentrations and stoichiometry in subtropical China. <i>Scientific Reports</i> , 2016, 6, 24261.	3.3	92
8	Nitrogen addition stimulates soil aggregation and enhances carbon storage in terrestrial ecosystems of China: A meta-analysis. <i>Global Change Biology</i> , 2021, 27, 2780-2792.	9.5	83
9	Soil environmental factors rather than denitrification gene abundance control N ₂ O fluxes in a wet sclerophyll forest with different burning frequency. <i>Soil Biology and Biochemistry</i> , 2013, 57, 292-300.	8.8	77
10	Soil pH predominantly controls the forms of organic phosphorus in topsoils under natural broadleaved forests along a 2500 km latitudinal gradient. <i>Geoderma</i> , 2018, 315, 65-74.	5.1	68
11	A structural equation model analysis of phosphorus transformations in global unfertilized and uncultivated soils. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1300-1309.	4.9	66
12	Long-term tree growth rate, water use efficiency, and tree ring nitrogen isotope composition of <i>Pinus massoniana</i> L. in response to global climate change and local nitrogen deposition in Southern China. <i>Journal of Soils and Sediments</i> , 2010, 10, 1453-1465.	3.0	65
13	Latitudinal patterns of terrestrial phosphorus limitation over the globe. <i>Ecology Letters</i> , 2021, 24, 1420-1431.	6.4	62
14	Global patterns and drivers of soil total phosphorus concentration. <i>Earth System Science Data</i> , 2021, 13, 5831-5846.	9.9	60
15	Fine-root functional trait responses to experimental warming: a global meta-analysis. <i>New Phytologist</i> , 2021, 230, 1856-1867.	7.3	59
16	A global dataset of plant available and unavailable phosphorus in natural soils derived by Hedley method. <i>Scientific Data</i> , 2018, 5, 180166.	5.3	59
17	Soil phosphorus fractionation and nutrient dynamics along the Cooloola coastal dune chronosequence, southern Queensland, Australia. <i>Geoderma</i> , 2015, 257-258, 4-13.	5.1	57
18	Mycorrhizal fungi and phosphatase involvement in rhizosphere phosphorus transformations improves plant nutrition during subtropical forest succession. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108099.	8.8	56

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19	Phosphatase activity in relation to key litter and soil properties in mature subtropical forests in China. <i>Science of the Total Environment</i> , 2015, 515-516, 83-91.	8.0	52
20	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , 2020, 26, 3336-3355.	9.5	50
21	Effects of long-term nitrogen deposition on phosphorus leaching dynamics in a mature tropical forest. <i>Biogeochemistry</i> , 2018, 138, 215-224.	3.5	40
22	Solubility of phosphorus in subtropical forest soils as influenced by low-molecular organic acids and key soil properties. <i>Geoderma</i> , 2018, 313, 172-180.	5.1	40
23	Dynamics of carbon, nitrogen, and phosphorus stocks and stoichiometry resulting from conversion of primary broadleaf forest to plantation and secondary forest in subtropical China. <i>Catena</i> , 2020, 193, 104606.	5.0	36
24	Relationships of phosphorus fractions to organic carbon content in surface soils in mature subtropical forests, Dinghushan, China. <i>Soil Research</i> , 2014, 52, 55.	1.1	33
25	Nutrient Limitation on Ecosystem Productivity and Processes of Mature and Old-Growth Subtropical Forests in China. <i>PLoS ONE</i> , 2012, 7, e52071.	2.5	32
26	Effects of forest conversion on carbon-degrading enzyme activities in subtropical China. <i>Science of the Total Environment</i> , 2019, 696, 133968.	8.0	31
27	Divergent responses of primary production to increasing precipitation variability in global drylands. <i>Global Change Biology</i> , 2021, 27, 5225-5237.	9.5	31
28	Soil microbial biomass increases along elevational gradients in the tropics and subtropics but not elsewhere. <i>Global Ecology and Biogeography</i> , 2020, 29, 345-354.	5.8	30
29	Phosphorus Supply Increases Nitrogen Transformation Rates and Retention in Soil: A Global Meta-Analysis. <i>Earth's Future</i> , 2022, 10, .	6.3	29
30	Dominant Trees in a Subtropical Forest Respond to Drought Mainly via Adjusting Tissue Soluble Sugar and Proline Content. <i>Frontiers in Plant Science</i> , 2017, 8, 802.	3.6	25
31	Soil Acidification and Heavy Metals in Urban Parks as Affected by Reconstruction Intensity in a Humid Subtropical Environment. <i>Pedosphere</i> , 2015, 25, 82-92.	4.0	23
32	Vertical Distribution of Soil Denitrifying Communities in a Wet Sclerophyll Forest under Long-Term Repeated Burning. <i>Microbial Ecology</i> , 2015, 70, 993-1003.	2.8	21
33	Precipitation manipulation and terrestrial carbon cycling: The roles of treatment magnitude, experimental duration and local climate. <i>Global Ecology and Biogeography</i> , 2021, 30, 1909-1921.	5.8	20
34	Quantifying Soil Phosphorus Dynamics: A Data Assimilation Approach. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2159-2173.	3.0	19
35	Addition of nitrogen to canopy versus understorey has different effects on leaf traits of understorey plants in a subtropical evergreen broad-leaved forest. <i>Journal of Ecology</i> , 2021, 109, 692-702.	4.0	19
36	Effects of elevated atmospheric CO ₂ and nitrogen deposition on leaf litter and soil carbon degrading enzyme activities in a Cd-contaminated environment: A mesocosm study. <i>Science of the Total Environment</i> , 2019, 671, 157-164.	8.0	18

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37	Toward a Global Model for Soil Inorganic Phosphorus Dynamics: Dependence of Exchange Kinetics and Soil Bioavailability on Soil Physicochemical Properties. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	16
38	The spatial patterns of litter turnover time in Chinese terrestrial ecosystems. <i>European Journal of Soil Science</i> , 2020, 71, 856-867.	3.9	14
39	Decrease in soil pH has greater effects than increase in above-ground carbon inputs on soil organic carbon in terrestrial ecosystems of China under nitrogen enrichment. <i>Journal of Applied Ecology</i> , 2022, 59, 768-778.	4.0	13
40	Soil acidity and exchangeable cations in remnant natural and plantation forests in the urbanised Pearl River Delta, China. <i>Soil Research</i> , 2012, 50, 207.	1.1	12
41	Soil carbon dynamics in different types of subtropical forests as determined by density fractionation and stable isotope analysis. <i>Forest Ecology and Management</i> , 2020, 475, 118401.	3.2	12
42	Acidification of soil due to forestation at the global scale. <i>Forest Ecology and Management</i> , 2022, 505, 119951.	3.2	12
43	Homogeneity of $\delta^{15}\text{N}$ in needles of Masson pine (<i>Pinus massoniana</i> L.) was altered by air pollution. <i>Environmental Pollution</i> , 2010, 158, 1963-1967.	7.5	11
44	Lipid-content-normalized polycyclic aromatic hydrocarbons (PAHs) in the xylem of conifers can indicate historical changes in regional airborne PAHs. <i>Environmental Pollution</i> , 2015, 196, 53-59.	7.5	11
45	Bedrock and climate jointly control the phosphorus status of subtropical forests along two elevational gradients. <i>Catena</i> , 2021, 206, 105525.	5.0	11
46	Canopy mitigates the effects of nitrogen deposition on soil carbon-related processes in a subtropical forest. <i>Science of the Total Environment</i> , 2021, 757, 143847.	8.0	8
47	Forest succession accelerates soil carbon accumulation by increasing recalcitrant carbon stock in subtropical forest topsoils. <i>Catena</i> , 2022, 212, 106030.	5.0	8
48	Heavy Metal Contamination in Soils of Remnant Natural and Plantation Forests in an Urbanized Region of the Pearl River Delta, China. <i>Forests</i> , 2014, 5, 885-900.	2.1	7
49	Sensitivity of soil organic matter to climate and fire in a desert grassland. <i>Biogeochemistry</i> , 2021, 156, 59-74.	3.5	7
50	Different effects of canopy and understory nitrogen addition on soil organic carbon and its related processes in a subtropical forest. <i>Journal of Soils and Sediments</i> , 2021, 21, 235-244.	3.0	7
51	Warming reduces the production of a major annual forage crop on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2021, 798, 149211.	8.0	7
52	Drivers of foliar $\delta^{15}\text{N}$ trends in southern China over the last century. <i>Global Change Biology</i> , 2022, 28, 5441-5452.	9.5	7
53	Matrix Approach to Land Carbon Cycle Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	7
54	Divergent Drivers of Various Topsoil Phosphorus Fractions Across Tibetan Alpine Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6

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55	A model-independent data assimilation (MIDA) module and its applications in ecology. <i>Geoscientific Model Development</i> , 2021, 14, 5217-5238.	3.6	5
56	Country-level land carbon sink and its causing components by the middle of the twenty-first century. <i>Ecological Processes</i> , 2021, 10, 61.	3.9	5
57	Changes in the composition of soil microbial communities and their carbon cycle genes following the conversion of primary broadleaf forests to plantations and secondary forests. <i>Land Degradation and Development</i> , 2022, 33, 974-985.	3.9	5
58	Negative effects of canopy N addition on soil organic carbon in wet season are primarily detected in uppermost soils of a subtropical forest. <i>Global Ecology and Conservation</i> , 2019, 17, e00543.	2.1	4
59	Benthic metabolism responses to environmental attributes at multiple scales and its linkage to algal community structure in streams. <i>Hydrobiologia</i> , 2021, 848, 5067-5085.	2.0	4
60	Nitrogen addition increases aboveground silicon and phytolith concentrations in understory plants of a tropical forest. <i>Plant and Soil</i> , 2022, 477, 25-39.	3.7	4
61	Plant and soil $\delta^{13}C$ and $\delta^{15}N$ are linked to community biomass, litter production, and litter turnover rate in mature subtropical forests. <i>Plant Ecology</i> , 2015, 216, 859-872.	1.6	3
62	Seasonal drought may alter N availability but not water use efficiency of dominant trees in a subtropical forest. <i>Global Ecology and Conservation</i> , 2018, 16, e00475.	2.1	3
63	Spatial Patterns and Drivers of Soil Chemical Properties in Typical Hickory Plantations. <i>Forests</i> , 2022, 13, 457.	2.1	3
64	Effects of elevated CO ₂ concentration and nitrogen addition on the chemical compositions, construction cost and payback time of subtropical trees in Cd-contaminated mesocosm soil. <i>Tree Physiology</i> , 2022, 42, 1002-1015.	3.1	3
65	Warmer and wetter climate promotes net primary production in <i>C₄</i> grassland with additional enhancement by hay harvesting. <i>Ecosphere</i> , 2022, 13, .	2.2	2