Yuan-He Yang

List of Publications by Year
in descending order

131 papers	9,227 citations	34100 52 h-index	45310 90 g-index
133 all docs	133 docs citations	133 times ranked	6983 citing authors

#	Article	IF	Citations
1	Carbon pools in Chinaâ€™s terrestrial ecosystems: New estimates based on an intensive field survey. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4021-4026.	7.1	466
2	Storage, patterns and controls of soil organic carbon in the Tibetan grasslands. Global Change Biology, 2008, 14, 1592-1599.	9.5	462
3	Minor stimulation of soil carbon storage by nitrogen addition: A meta-analysis. Agriculture, Ecosystems and Environment, 2011, 140, 234-244.	5.3	390
4	Responses of ecosystem nitrogen cycle to nitrogen addition: a metaâ€analysis. New Phytologist, 2011, 189, 1040-1050.	7.3	383
5	Aboveâ€and belowground biomass allocation in Tibetan grasslands. Journal of Vegetation Science, 2009, 20, 177-184.	2.2	264
6	Storage, patterns and environmental controls of soil organic carbon in China. Biogeochemistry, 2007, 84, 131-141.	3.5	238
7	Carbon and nitrogen dynamics during forest stand development: a global synthesis. New Phytologist, 2011, 190, 977-989.	7.3	221
8	Largeâ€scale pattern of biomass partitioning across China's grasslands. Global Ecology and Biogeography, 2010, 19, 268-277.	5.8	210
9	Significant soil acidification across northern China's grasslands during 1980sâ€“2000s. Global Change Biology, 2012, 18, 2292-2300.	9.5	200
10	The permafrost carbon inventory on the Tibetan Plateau: a new evaluation using deep sediment cores. Global Change Biology, 2016, 22, 2688-2701.	9.5	189
11	Regulation of priming effect by soil organic matter stability over a broad geographic scale. Nature Communications, 2019, 10, 5112.	12.8	187
12	Soil carbon stock and its changes in northern China's grasslands from 1980s to 2000s. Global Change Biology, 2010, 16, 3036-3047.	9.5	169
13	Decadal soil carbon accumulation across Tibetan permafrost regions. Nature Geoscience, 2017, 10, 420-424.	12.9	166
14	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality. Science China Life Sciences, 2022, 65, 861-895.	4.9	163
15	Ecosystem carbon stocks and their changes in Chinaâ€™s grasslands. Science China Life Sciences, 2010, 53, 757-765.	4.9	153
16	Environmental factors covary with plant diversityâ€“productivity relationships among Chinese grassland sites. Global Ecology and Biogeography, 2010, 19, 233-243.	5.8	150
17	Carbonâ€ƒ:â€ƒnitrogen stoichiometry in forest ecosystems during stand development. Global Ecology and Biogeography, 2011, 20, 354-361.	5.8	144
18	Determinants of carbon release from the active layer and permafrost deposits on the Tibetan Plateau. Nature Communications, 2016, 7, 13046.	12.8	141

#	Article	IF	Citations
19	Relationship between variability in aboveground net primary production and precipitation in global grasslands. Geophysical Research Letters, 2008, 35, .	4.0	139
20	Changes in topsoil carbon stock in the Tibetan grasslands between the 1980s and 2004. Global Change Biology, 2009, 15, 2723-2729.	9.5	135
21	Nitrogen availability regulates topsoil carbon dynamics after permafrost thaw by altering microbial metabolic efficiency. Nature Communications, 2018, 9, 3951.	12.8	135
22	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. Science Advances, 2021, 7, .	10.3	130
23	Biomass carbon stocks and their changes in northern Chinaâ€™s grasslands during 1982â€œ2006. Science China Life Sciences, 2010, 53, 841-850.	4.9	118
24	Evidence for environmentally enhanced forest growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9527-9532.	7.1	116
25	Temperature sensitivity of SOM decomposition governed by aggregate protection and microbial communities. Science Advances, 2019, 5, eaau1218.	10.3	111
26	Linking microbial C:N:P stoichiometry to microbial community and abiotic factors along a 3500â€km grassland transect on the Tibetan Plateau. Global Ecology and Biogeography, 2016, 25, 1416-1427.	5.8	108
27	Linking temperature sensitivity of soil CO₂ release to substrate, environmental, and microbial properties across alpine ecosystems. Global Biogeochemical Cycles, 2016, 30, 1310-1323.	4.9	106
28	Global patterns of root dynamics under nitrogen enrichment. Global Ecology and Biogeography, 2017, 26, 102-114.	5.8	104
29	Patterns and drivers of soil microbial communities in Tibetan alpine and global terrestrial ecosystems. Journal of Biogeography, 2016, 43, 2027-2039.	3.0	101
30	Above- and belowground biomass in relation to environmental factors in temperate grasslands, Inner Mongolia. Science in China Series C: Life Sciences, 2008, 51, 263-270.	1.3	99
31	The impact of agricultural land use changes on soil organic carbon dynamics in the Danjiangkou Reservoir area of China. Plant and Soil, 2013, 366, 415-424.	3.7	98
32	Soil carbon persistence governed by plant input and mineral protection at regional and global scales. Ecology Letters, 2021, 24, 1018-1028.	6.4	96
33	Altered trends in carbon uptake in China's terrestrial ecosystems under the enhanced summer monsoon and warming hiatus. National Science Review, 2019, 6, 505-514.	9.5	93
34	Distinct microbial communities in the active and permafrost layers on the Tibetan Plateau. Molecular Ecology, 2017, 26, 6608-6620.	3.9	92
35	Nitrous oxide emissions from permafrost-affected soils. Nature Reviews Earth & Environment, 2020, 1, 420-434.	29.7	90
36	Rain use efficiency across a precipitation gradient on the Tibetan Plateau. Geophysical Research Letters, 2010, 37, .	4.0	80

#	Article	IF	Citations
37	Increased topsoil carbon stock across China's forests. Global Change Biology, 2014, 20, 2687-2696.	9.5	79
38	Terrestrial C:N stoichiometry in response to elevated CO2 and N addition: a synthesis of two meta-analyses. Plant and Soil, 2011, 343, 393-400.	3.7	78
39	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. Communications Earth & Environment, 2021, 2, .	6.8	71
40	Linkages of plant stoichiometry to ecosystem production and carbon fluxes with increasing nitrogen inputs in an alpine steppe. Global Change Biology, 2017, 23, 5249-5259.	9.5	70
41	Patterns of above- and belowground biomass allocation in Chinaâ€™s grasslands: Evidence from individual-level observations. Science China Life Sciences, 2010, 53, 851-857.	4.9	66
42	Global patterns of soil microbial nitrogen and phosphorus stoichiometry in forest ecosystems. Global Ecology and Biogeography, 2014, 23, 979-987.	5.8	66
43	Widespread decreases in topsoil inorganic carbon stocks across <scp>C</scp>hina's grasslands during 1980sâ€“2000s. Global Change Biology, 2012, 18, 3672-3680.	9.5	65
44	Soil inorganic carbon stock in the Tibetan alpine grasslands. Global Biogeochemical Cycles, 2010, 24, .	4.9	63
45	Stoichiometric shifts in surface soils over broad geographical scales: evidence from <scp>C</scp>hina's grasslands. Global Ecology and Biogeography, 2014, 23, 947-955.	5.8	63
46	Progressive nitrogen limitation across the Tibetan alpine permafrost region. Nature Communications, 2020, 11, 3331.	12.8	63
47	<i>Spartina alterniflora</i> invasion controls organic carbon stocks in coastal marsh and mangrove soils across tropics and subtropics. Global Change Biology, 2021, 27, 1627-1644.	9.5	62
48	Climatic and Edaphic Controls on Soil pH in Alpine Grasslands on the Tibetan Plateau, China: A Quantitative Analysis. Pedosphere, 2014, 24, 39-44.	4.0	61
49	Storage, Patterns and Controls of Soil Nitrogen in China. Pedosphere, 2007, 17, 776-785.	4.0	60
50	Longâ€term changes in soil pH across major forest ecosystems in China. Geophysical Research Letters, 2015, 42, 933-940.	4.0	60
51	Estimates of grassland biomass and turnover time on the Tibetan Plateau. Environmental Research Letters, 2018, 13, 014020.	5.2	59
52	Edaphic rather than climatic controls over ¹³C enrichment between soil and vegetation in alpine grasslands on the Tibetan Plateau. Functional Ecology, 2015, 29, 839-848.	3.6	55
53	Estimation and uncertainty analyses of grassland biomass in Northern China: Comparison of multiple remote sensing data sources and modeling approaches. Ecological Indicators, 2016, 60, 1031-1040.	6.3	53
54	Depthâ€dependent drivers of soil microbial necromass carbon across Tibetan alpine grasslands. Global Change Biology, 2022, 28, 936-949.	9.5	51

#	Article	IF	Citations
55	Largeâ€scale estimation and uncertainty analysis of gross primary production in Tibetan alpine grasslands. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 466-486.	3.0	50
56	Changes in Methane Flux along a Permafrost Thaw Sequence on the Tibetan Plateau. Environmental Science & Technology, 2018, 52, 1244-1252.	10.0	50
57	Permafrost nitrogen status and its determinants on the Tibetan Plateau. Global Change Biology, 2020, 26, 5290-5302.	9.5	49
58	Dynamic patterns of nitrogen: Phosphorus ratios in forest soils of China under changing environment. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2410-2421.	3.0	48
59	Al/Fe Mineral Controls on Soil Organic Carbon Stock Across Tibetan Alpine Grasslands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 247-259.	3.0	48
60	Temperature sensitivity of permafrost carbon release mediated by mineral and microbial properties. Science Advances, 2021, 7, .	10.3	46
61	Nonlinear response of soil respiration to increasing nitrogen additions in a Tibetan alpine steppe. Environmental Research Letters, 2017, 12, 024018.	5.2	45
62	Trait identity and functional diversity coâ€drive response of ecosystem productivity to nitrogen enrichment. Journal of Ecology, 2019, 107, 2402-2414.	4.0	45
63	Largeâ€scale evidence for microbial response and associated carbon release after permafrost thaw. Global Change Biology, 2021, 27, 3218-3229.	9.5	44
64	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. Nature Communications, 2019, 10, 4195.	12.8	39
65	How has soil carbon stock changed over recent decades?. Global Change Biology, 2015, 21, 3197-3199.	9.5	38
66	Warming alters surface soil organic matter composition despite unchanged carbon stocks in a Tibetan permafrost ecosystem. Functional Ecology, 2020, 34, 911-922.	3.6	38
67	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. Global Change Biology, 2022, 28, 1516-1528.	9.5	37
68	Nitrogen input enhances microbial carbon use efficiency by altering plantâ€“microbeâ€“mineral interactions. Global Change Biology, 2022, 28, 4845-4860.	9.5	36
69	Global patterns of ecosystem carbon flux in forests: A biometric dataâ€based synthesis. Global Biogeochemical Cycles, 2014, 28, 962-973.	4.9	35
70	Global soilâ€“climateâ€“biome diagram: linking surface soil properties to climate and biota. Biogeosciences, 2019, 16, 2857-2871.	3.3	35
71	Warming effects on permafrost ecosystem carbon fluxes associated with plant nutrients. Ecology, 2017, 98, 2851-2859.	3.2	34
72	Vegetation and Soil 15N Natural Abundance in Alpine Grasslands on the Tibetan Plateau: Patterns and Implications. Ecosystems, 2013, 16, 1013-1024.	3.4	33

#	Article	IF	Citations
73	Magnitude and Pathways of Increased Nitrous Oxide Emissions from Uplands Following Permafrost Thaw. Environmental Science & Technology, 2018, 52, 9162-9169.	10.0	33
74	Unimodal Response of Soil Methane Consumption to Increasing Nitrogen Additions. Environmental Science & Technology, 2019, 53, 4150-4160.	10.0	33
75	Altered microbial structure and function after thermokarst formation. Global Change Biology, 2021, 27, 823-835.	9.5	33
76	Soil Temperature Dynamics Modulate N₂O Flux Response to Multiple Nitrogen Additions in an Alpine Steppe. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3308-3319.	3.0	32
77	Phosphorus rather than nitrogen regulates ecosystem carbon dynamics after permafrost thaw. Global Change Biology, 2021, 27, 5818-5830.	9.5	31
78	Geography, environment, and spatial turnover of species in China's grasslands. Ecography, 2012, 35, 1103-1109.	4.5	30
79	Allometric biomass partitioning under nitrogen enrichment: Evidence from manipulative experiments around the world. Scientific Reports, 2016, 6, 28918.	3.3	30
80	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. Global Biogeochemical Cycles, 2021, 35, e2020GB006719.	4.9	30
81	Global pattern and drivers of nitrogen saturation threshold of grassland productivity. Functional Ecology, 2020, 34, 1979-1990.	3.6	29
82	Storage, patterns and influencing factors for soil organic carbon in coastal wetlands of China. Global Change Biology, 2022, 28, 6065-6085.	9.5	29
83	Inverse analysis of coupled carbonâ€“nitrogen cycles against multiple datasets at ambient and elevated CO₂. Journal of Plant Ecology, 2016, 9, 285-295.	2.3	28
84	Stochastic processes regulate belowground community assembly in alpine grasslands on the Tibetan Plateau. Environmental Microbiology, 2022, 24, 179-194.	3.8	28
85	Above- and Belowground Biomass Allocation in Shrub Biomes across the Northeast Tibetan Plateau. PLoS ONE, 2016, 11, e0154251.	2.5	27
86	Decreased Soil Cation Exchange Capacity Across Northern China's Grasslands Over the Last Three Decades. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3088-3097.	3.0	26
87	No significant changes in topsoil carbon in the grasslands of northern China between the 1980s and 2000s. Science of the Total Environment, 2018, 624, 1478-1487.	8.0	26
88	Warming effects on methane fluxes differ between two alpine grasslands with contrasting soil water status. Agricultural and Forest Meteorology, 2020, 290, 107988.	4.8	25
89	Selective Leaching of Dissolved Organic Matter From Alpine Permafrost Soils on the Qinghaiâ€Tibetan Plateau. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1005-1016.	3.0	24
90	Diverse responses of belowground internal nitrogen cycling to increasing aridity. Soil Biology and Biochemistry, 2018, 116, 189-192.	8.8	24

#	Article	IF	Citations
91	Global patterns and climatic drivers of above- and belowground net primary productivity in grasslands. Science China Life Sciences, 2021, 64, 739-751.	4.9	23
92	High potential of stable carbon sequestration in phytoliths of China's grasslands. Global Change Biology, 2022, 28, 2736-2750.	9.5	23
93	Variations of root and heterotrophic respiration along environmental gradients in China's forests. Journal of Plant Ecology, 2013, 6, 358-367.	2.3	22
94	Reduced quantity and quality of SOM along a thaw sequence on the Tibetan Plateau. Environmental Research Letters, 2018, 13, 104017.	5.2	22
95	An integrated belowground traitâ€based understanding of nitrogenâ€driven plant diversity loss. Global Change Biology, 2022, 28, 3651-3664.	9.5	22
96	Shrub encroachment decreases soil inorganic carbon stocks in Mongolian grasslands. Journal of Ecology, 2020, 108, 678-686.	4.0	20
97	Isometric biomass partitioning pattern in forest ecosystems: evidence from temporal observations during stand development. Journal of Ecology, 2011, 99, 431-437.	4.0	19
98	Spatiotemporal transformation of dissolved organic matter along an alpine stream flow path on the Qinghaiâ€"Tibet Plateau: importance of source and permafrost degradation. Biogeosciences, 2018, 15, 6637-6648.	3.3	19
99	Differential responses of heterotrophic and autotrophic respiration to nitrogen addition and precipitation changes in a Tibetan alpine steppe. Scientific Reports, 2018, 8, 16546.	3.3	19
100	Disentangling the Effects of Climate, Vegetation, Soil and Related Substrate Properties on the Biodegradability of Permafrostâ€Derived Dissolved Organic Carbon. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3377-3389.	3.0	19
101	Magnitude and Drivers of Potential Methane Oxidation and Production across the Tibetan Alpine Permafrost Region. Environmental Science & Technology, 2019, 53, 14243-14252.	10.0	19
102	Spatially-explicit estimate of soil nitrogen stock and its implication for land model across Tibetan alpine permafrost region. Science of the Total Environment, 2019, 650, 1795-1804.	8.0	19
103	Soil Fungal Community Composition, Not Assembly Process, Was Altered by Nitrogen Addition and Precipitation Changes at an Alpine Steppe. Frontiers in Microbiology, 2020, 11, 579072.	3.5	19
104	Changes in aboveâ€/belowâ€ground biodiversity and plant functional composition mediate soil respiration response to nitrogen input. Functional Ecology, 2021, 35, 1171-1182.	3.6	19
105	Global patterns of woody residence time and its influence on model simulation of aboveground biomass. Global Biogeochemical Cycles, 2017, 31, 821-835.	4.9	18
106	Dryland soils in northern China sequester carbon during the early 2000s warming hiatus period. Functional Ecology, 2018, 32, 1620-1630.	3.6	18
107	Linkage of plant and abiotic properties to the abundance and activity of N-cycling microbial communities in Tibetan permafrost-affected regions. Plant and Soil, 2019, 434, 453-466.	3.7	18
108	Leaf Area Rather Than Photosynthetic Rate Determines the Response of Ecosystem Productivity to Experimental Warming in an Alpine Steppe. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2277-2287.	3.0	17

#	Article	IF	Citations
109	Ultraviolet radiation rather than inorganic nitrogen increases dissolved organic carbon biodegradability in a typical thermo-erosion gully on the Tibetan Plateau. Science of the Total Environment, 2018, 627, 1276-1284.	8.0	16
110	Experimental warming increased soil nitrogen sink in the Tibetan permafrost. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1870-1879.	3.0	14
111	Responses of soil respiration to experimental warming in an alpine steppe on the Tibetan Plateau. Environmental Research Letters, 2019, 14, 094015.	5.2	14
112	Methanogenic Community, CH₄ Production Potential and Its Determinants in the Active Layer and Permafrost Deposits on the Tibetan Plateau. Environmental Science & Technology, 2021, 55, 11412-11423.	10.0	14
113	A comparison of patterns of microbial Câ€‰:â€‰Nâ€‰:â€‰P stoichiometry between topsoil and subsoil along an aridity gradient. Biogeosciences, 2020, 17, 2009-2019.	3.3	13
114	Substantial nonâ€growing season carbon dioxide loss across Tibetan alpine permafrost region. Global Change Biology, 2022, 28, 5200-5210.	9.5	13
115	Effects of Forest Age on Soil Autotrophic and Heterotrophic Respiration Differ between Evergreen and Deciduous Forests. PLoS ONE, 2013, 8, e80937.	2.5	12
116	Effects of Substrate Addition on Soil Respiratory Carbon Release Under Long-Term Warming and Clipping in a Tallgrass Prairie. PLoS ONE, 2014, 9, e114203.	2.5	12
117	Mineral and Climatic Controls Over Soil Organic Matter Stability Across the Tibetan Alpine Permafrost Region. Global Biogeochemical Cycles, 2021, 35, .	4.9	12
118	Fieldâ€Based Estimation of Net Primary Productivity and Its Aboveâ€•and Belowground Partitioning in Global Grasslands. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	3.0	11
119	Permafrost Degradation Diminishes Terrestrial Ecosystem Carbon Sequestration Capacity on the Qinghaiâ€Tibetan Plateau. Global Biogeochemical Cycles, 2022, 36, .	4.9	11
120	Trajectory of Topsoil Nitrogen Transformations Along a Thermoâ€Erosion Gully on the Tibetan Plateau. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1342-1354.	3.0	10
121	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. Frontiers in Environmental Science, 0, 10, .	3.3	9
122	The driving factors of mercury storage in the Tibetan grassland soils underlain by permafrost. Environmental Pollution, 2020, 265, 115079.	7.5	8
123	Above- and below-ground resource acquisition strategies determine plant species responses to nitrogen enrichment. Annals of Botany, 2021, 128, 31-44.	2.9	8
124	Global synthesis for the scaling of soil microbial nitrogen to phosphorus in terrestrial ecosystems. Environmental Research Letters, 2021, 16, 044034.	5.2	8
125	Decreased ultraviolet radiation and decomposer biodiversity inhibit litter decomposition under continuous nitrogen inputs. Functional Ecology, 0, , .	3.6	6
126	Divergent Drivers of Various Topsoil Phosphorus Fractions Across Tibetan Alpine Grasslands. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	6

#	Article	IF	Citations
127	Divergent Trajectory of Soil Autotrophic and Heterotrophic Respiration upon Permafrost Thaw. Environmental Science & Technology, 2022, 56, 10483-10493.	10.0	5
128	Different chemical composition and storage mechanism of soil organic matter between active and permafrost layers on the Qinghaiâ€"Tibetan Plateau. Journal of Soils and Sediments, 2020, 20, 653-664.	3.0	4
129	Soil Nitrogen Transformations Respond Diversely to Multiple Levels of Nitrogen Addition in a Tibetan Alpine Steppe. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006211.	3.0	2
130	Response to Comment on â€˜Soil carbon persistence governed by plant input and mineral protection at regional and global scalesâ€™. Ecology Letters, 2021, 24, 2529-2532.	6.4	2
131	Shift in controlling factors of carbon stocks across biomes on the Qinghai-Tibetan Plateau. Environmental Research Letters, 2022, 17, 074016.	5.2	2