

Yuan-He Yang

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

9,227
citations

34100

52
h-index

45310

90
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all docs

133
docs citations

133
times ranked

6983
citing authors

#	ARTICLE	IF	CITATIONS
1	Depth-dependent drivers of soil microbial necromass carbon across Tibetan alpine grasslands. <i>Global Change Biology</i> , 2022, 28, 936-949.	9.5	51
2	Stochastic processes regulate belowground community assembly in alpine grasslands on the Tibetan Plateau. <i>Environmental Microbiology</i> , 2022, 24, 179-194.	3.8	28
3	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. <i>Global Change Biology</i> , 2022, 28, 1516-1528.	9.5	37
4	High potential of stable carbon sequestration in phytoliths of China's grasslands. <i>Global Change Biology</i> , 2022, 28, 2736-2750.	9.5	23
5	Permafrost Degradation Diminishes Terrestrial Ecosystem Carbon Sequestration Capacity on the Qinghai-Tibetan Plateau. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	11
6	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality. <i>Science China Life Sciences</i> , 2022, 65, 861-895.	4.9	163
7	An integrated belowground trait-based understanding of nitrogen-driven plant diversity loss. <i>Global Change Biology</i> , 2022, 28, 3651-3664.	9.5	22
8	Divergent Drivers of Various Topsoil Phosphorus Fractions Across Tibetan Alpine Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6
9	Nitrogen input enhances microbial carbon use efficiency by altering plant-microbe-mineral interactions. <i>Global Change Biology</i> , 2022, 28, 4845-4860.	9.5	36
10	Substantial non-growing season carbon dioxide loss across Tibetan alpine permafrost region. <i>Global Change Biology</i> , 2022, 28, 5200-5210.	9.5	13
11	Divergent Trajectory of Soil Autotrophic and Heterotrophic Respiration upon Permafrost Thaw. <i>Environmental Science & Technology</i> , 2022, 56, 10483-10493.	10.0	5
12	Shift in controlling factors of carbon stocks across biomes on the Qinghai-Tibetan Plateau. <i>Environmental Research Letters</i> , 2022, 17, 074016.	5.2	2
13	Storage, patterns and influencing factors for soil organic carbon in coastal wetlands of China. <i>Global Change Biology</i> , 2022, 28, 6065-6085.	9.5	29
14	Global patterns and climatic drivers of above- and belowground net primary productivity in grasslands. <i>Science China Life Sciences</i> , 2021, 64, 739-751.	4.9	23
15	Altered microbial structure and function after thermokarst formation. <i>Global Change Biology</i> , 2021, 27, 823-835.	9.5	33
16	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006719.	4.9	30
17	Large-scale evidence for microbial response and associated carbon release after permafrost thaw. <i>Global Change Biology</i> , 2021, 27, 3218-3229.	9.5	44
18	Above- and below-ground resource acquisition strategies determine plant species responses to nitrogen enrichment. <i>Annals of Botany</i> , 2021, 128, 31-44.	2.9	8

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19	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. <i>Science Advances</i> , 2021, 7, .	10.3	130
20	Soil carbon persistence governed by plant input and mineral protection at regional and global scales. <i>Ecology Letters</i> , 2021, 24, 1018-1028.	6.4	96
21	Global synthesis for the scaling of soil microbial nitrogen to phosphorus in terrestrial ecosystems. <i>Environmental Research Letters</i> , 2021, 16, 044034.	5.2	8
22	Changes in above- and below-ground biodiversity and plant functional composition mediate soil respiration response to nitrogen input. <i>Functional Ecology</i> , 2021, 35, 1171-1182.	3.6	19
23	Soil Nitrogen Transformations Respond Diversely to Multiple Levels of Nitrogen Addition in a Tibetan Alpine Steppe. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006211.	3.0	2
24	Methanogenic Community, CH ₄ Production Potential and Its Determinants in the Active Layer and Permafrost Deposits on the Tibetan Plateau. <i>Environmental Science & Technology</i> , 2021, 55, 11412-11423.	10.0	14
25	Temperature sensitivity of permafrost carbon release mediated by mineral and microbial properties. <i>Science Advances</i> , 2021, 7, .	10.3	46
26	Phosphorus rather than nitrogen regulates ecosystem carbon dynamics after permafrost thaw. <i>Global Change Biology</i> , 2021, 27, 5818-5830.	9.5	31
27	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	71
28	Response to Comment on "Soil carbon persistence governed by plant input and mineral protection at regional and global scales". <i>Ecology Letters</i> , 2021, 24, 2529-2532.	6.4	2
29	<i>Spartina alterniflora</i> invasion controls organic carbon stocks in coastal marsh and mangrove soils across tropics and subtropics. <i>Global Change Biology</i> , 2021, 27, 1627-1644.	9.5	62
30	Field-Based Estimation of Net Primary Productivity and Its Above- and Belowground Partitioning in Global Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	11
31	Mineral and Climatic Controls Over Soil Organic Matter Stability Across the Tibetan Alpine Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	4.9	12
32	Different chemical composition and storage mechanism of soil organic matter between active and permafrost layers on the Qinghai-Tibetan Plateau. <i>Journal of Soils and Sediments</i> , 2020, 20, 653-664.	3.0	4
33	Shrub encroachment decreases soil inorganic carbon stocks in Mongolian grasslands. <i>Journal of Ecology</i> , 2020, 108, 678-686.	4.0	20
34	Warming alters surface soil organic matter composition despite unchanged carbon stocks in a Tibetan permafrost ecosystem. <i>Functional Ecology</i> , 2020, 34, 911-922.	3.6	38
35	The driving factors of mercury storage in the Tibetan grassland soils underlain by permafrost. <i>Environmental Pollution</i> , 2020, 265, 115079.	7.5	8
36	Soil Fungal Community Composition, Not Assembly Process, Was Altered by Nitrogen Addition and Precipitation Changes at an Alpine Steppe. <i>Frontiers in Microbiology</i> , 2020, 11, 579072.	3.5	19

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37	Permafrost nitrogen status and its determinants on the Tibetan Plateau. <i>Global Change Biology</i> , 2020, 26, 5290-5302.	9.5	49
38	Global pattern and drivers of nitrogen saturation threshold of grassland productivity. <i>Functional Ecology</i> , 2020, 34, 1979-1990.	3.6	29
39	Progressive nitrogen limitation across the Tibetan alpine permafrost region. <i>Nature Communications</i> , 2020, 11, 3331.	12.8	63
40	Nitrous oxide emissions from permafrost-affected soils. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 420-434.	29.7	90
41	A comparison of patterns of microbial C:N:P stoichiometry between topsoil and subsoil along an aridity gradient. <i>Biogeosciences</i> , 2020, 17, 2009-2019.	3.3	13
42	Warming effects on methane fluxes differ between two alpine grasslands with contrasting soil water status. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 107988.	4.8	25
43	Responses of soil respiration to experimental warming in an alpine steppe on the Tibetan Plateau. <i>Environmental Research Letters</i> , 2019, 14, 094015.	5.2	14
44	Temperature sensitivity of SOM decomposition governed by aggregate protection and microbial communities. <i>Science Advances</i> , 2019, 5, eaau1218.	10.3	111
45	Global soil "climate" biome diagram: linking surface soil properties to climate and biota. <i>Biogeosciences</i> , 2019, 16, 2857-2871.	3.3	35
46	Leaf Area Rather Than Photosynthetic Rate Determines the Response of Ecosystem Productivity to Experimental Warming in an Alpine Steppe. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2277-2287.	3.0	17
47	Disentangling the Effects of Climate, Vegetation, Soil and Related Substrate Properties on the Biodegradability of Permafrost-Derived Dissolved Organic Carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3377-3389.	3.0	19
48	Regulation of priming effect by soil organic matter stability over a broad geographic scale. <i>Nature Communications</i> , 2019, 10, 5112.	12.8	187
49	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. <i>Nature Communications</i> , 2019, 10, 4195.	12.8	39
50	Trajectory of Topsoil Nitrogen Transformations Along a Thermo-Erosion Gully on the Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1342-1354.	3.0	10
51	Unimodal Response of Soil Methane Consumption to Increasing Nitrogen Additions. <i>Environmental Science & Technology</i> , 2019, 53, 4150-4160.	10.0	33
52	Trait identity and functional diversity co-drive response of ecosystem productivity to nitrogen enrichment. <i>Journal of Ecology</i> , 2019, 107, 2402-2414.	4.0	45
53	Altered trends in carbon uptake in China's terrestrial ecosystems under the enhanced summer monsoon and warming hiatus. <i>National Science Review</i> , 2019, 6, 505-514.	9.5	93
54	Magnitude and Drivers of Potential Methane Oxidation and Production across the Tibetan Alpine Permafrost Region. <i>Environmental Science & Technology</i> , 2019, 53, 14243-14252.	10.0	19

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55	Al/Fe Mineral Controls on Soil Organic Carbon Stock Across Tibetan Alpine Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 247-259.	3.0	48
56	Linkage of plant and abiotic properties to the abundance and activity of N-cycling microbial communities in Tibetan permafrost-affected regions. <i>Plant and Soil</i> , 2019, 434, 453-466.	3.7	18
57	Spatially-explicit estimate of soil nitrogen stock and its implication for land model across Tibetan alpine permafrost region. <i>Science of the Total Environment</i> , 2019, 650, 1795-1804.	8.0	19
58	Dryland soils in northern China sequester carbon during the early 2000s warming hiatus period. <i>Functional Ecology</i> , 2018, 32, 1620-1630.	3.6	18
59	Selective Leaching of Dissolved Organic Matter From Alpine Permafrost Soils on the Qinghai-Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1005-1016.	3.0	24
60	Ultraviolet radiation rather than inorganic nitrogen increases dissolved organic carbon biodegradability in a typical thermo-erosion gully on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2018, 627, 1276-1284.	8.0	16
61	Carbon pools in China's terrestrial ecosystems: New estimates based on an intensive field survey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4021-4026.	7.1	466
62	Changes in Methane Flux along a Permafrost Thaw Sequence on the Tibetan Plateau. <i>Environmental Science & Technology</i> , 2018, 52, 1244-1252.	10.0	50
63	No significant changes in topsoil carbon in the grasslands of northern China between the 1980s and 2000s. <i>Science of the Total Environment</i> , 2018, 624, 1478-1487.	8.0	26
64	Diverse responses of belowground internal nitrogen cycling to increasing aridity. <i>Soil Biology and Biochemistry</i> , 2018, 116, 189-192.	8.8	24
65	Estimates of grassland biomass and turnover time on the Tibetan Plateau. <i>Environmental Research Letters</i> , 2018, 13, 014020.	5.2	59
66	Spatiotemporal transformation of dissolved organic matter along an alpine stream flow path on the Qinghai-Tibet Plateau: importance of source and permafrost degradation. <i>Biogeosciences</i> , 2018, 15, 6637-6648.	3.3	19
67	Differential responses of heterotrophic and autotrophic respiration to nitrogen addition and precipitation changes in a Tibetan alpine steppe. <i>Scientific Reports</i> , 2018, 8, 16546.	3.3	19
68	Nitrogen availability regulates topsoil carbon dynamics after permafrost thaw by altering microbial metabolic efficiency. <i>Nature Communications</i> , 2018, 9, 3951.	12.8	135
69	Reduced quantity and quality of SOM along a thaw sequence on the Tibetan Plateau. <i>Environmental Research Letters</i> , 2018, 13, 104017.	5.2	22
70	Soil Temperature Dynamics Modulate N ₂ O Flux Response to Multiple Nitrogen Additions in an Alpine Steppe. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3308-3319.	3.0	32
71	Magnitude and Pathways of Increased Nitrous Oxide Emissions from Uplands Following Permafrost Thaw. <i>Environmental Science & Technology</i> , 2018, 52, 9162-9169.	10.0	33
72	Nonlinear response of soil respiration to increasing nitrogen additions in a Tibetan alpine steppe. <i>Environmental Research Letters</i> , 2017, 12, 024018.	5.2	45

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73	Global patterns of woody residence time and its influence on model simulation of aboveground biomass. <i>Global Biogeochemical Cycles</i> , 2017, 31, 821-835.	4.9	18
74	Decadal soil carbon accumulation across Tibetan permafrost regions. <i>Nature Geoscience</i> , 2017, 10, 420-424.	12.9	166
75	Linkages of plant stoichiometry to ecosystem production and carbon fluxes with increasing nitrogen inputs in an alpine steppe. <i>Global Change Biology</i> , 2017, 23, 5249-5259.	9.5	70
76	Experimental warming increased soil nitrogen sink in the Tibetan permafrost. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1870-1879.	3.0	14
77	Warming effects on permafrost ecosystem carbon fluxes associated with plant nutrients. <i>Ecology</i> , 2017, 98, 2851-2859.	3.2	34
78	Decreased Soil Cation Exchange Capacity Across Northern China's Grasslands Over the Last Three Decades. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3088-3097.	3.0	26
79	Distinct microbial communities in the active and permafrost layers on the Tibetan Plateau. <i>Molecular Ecology</i> , 2017, 26, 6608-6620.	3.9	92
80	Global patterns of root dynamics under nitrogen enrichment. <i>Global Ecology and Biogeography</i> , 2017, 26, 102-114.	5.8	104
81	Patterns and drivers of soil microbial communities in Tibetan alpine and global terrestrial ecosystems. <i>Journal of Biogeography</i> , 2016, 43, 2027-2039.	3.0	101
82	The permafrost carbon inventory on the Tibetan Plateau: a new evaluation using deep sediment cores. <i>Global Change Biology</i> , 2016, 22, 2688-2701.	9.5	189
83	Dynamic patterns of nitrogen: Phosphorus ratios in forest soils of China under changing environment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2410-2421.	3.0	48
84	Linking microbial C:N:P stoichiometry to microbial community and abiotic factors along a 3500-km grassland transect on the Tibetan Plateau. <i>Global Ecology and Biogeography</i> , 2016, 25, 1416-1427.	5.8	108
85	Linking temperature sensitivity of soil CO ₂ release to substrate, environmental, and microbial properties across alpine ecosystems. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1310-1323.	4.9	106
86	Determinants of carbon release from the active layer and permafrost deposits on the Tibetan Plateau. <i>Nature Communications</i> , 2016, 7, 13046.	12.8	141
87	Allometric biomass partitioning under nitrogen enrichment: Evidence from manipulative experiments around the world. <i>Scientific Reports</i> , 2016, 6, 28918.	3.3	30
88	Inverse analysis of coupled carbon–nitrogen cycles against multiple datasets at ambient and elevated CO ₂ . <i>Journal of Plant Ecology</i> , 2016, 9, 285-295.	2.3	28
89	Estimation and uncertainty analyses of grassland biomass in Northern China: Comparison of multiple remote sensing data sources and modeling approaches. <i>Ecological Indicators</i> , 2016, 60, 1031-1040.	6.3	53
90	Above- and Belowground Biomass Allocation in Shrub Biomes across the Northeast Tibetan Plateau. <i>PLoS ONE</i> , 2016, 11, e0154251.	2.5	27

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91	How has soil carbon stock changed over recent decades?. <i>Global Change Biology</i> , 2015, 21, 3197-3199.	9.5	38
92	Long-term changes in soil pH across major forest ecosystems in China. <i>Geophysical Research Letters</i> , 2015, 42, 933-940.	4.0	60
93	Edaphic rather than climatic controls over ¹³ C enrichment between soil and vegetation in alpine grasslands on the Tibetan Plateau. <i>Functional Ecology</i> , 2015, 29, 839-848.	3.6	55
94	Evidence for environmentally enhanced forest growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9527-9532.	7.1	116
95	Climatic and Edaphic Controls on Soil pH in Alpine Grasslands on the Tibetan Plateau, China: A Quantitative Analysis. <i>Pedosphere</i> , 2014, 24, 39-44.	4.0	61
96	Stoichiometric shifts in surface soils over broad geographical scales: evidence from China's grasslands. <i>Global Ecology and Biogeography</i> , 2014, 23, 947-955.	5.8	63
97	Increased topsoil carbon stock across China's forests. <i>Global Change Biology</i> , 2014, 20, 2687-2696.	9.5	79
98	Global patterns of soil microbial nitrogen and phosphorus stoichiometry in forest ecosystems. <i>Global Ecology and Biogeography</i> , 2014, 23, 979-987.	5.8	66
99	Large-scale estimation and uncertainty analysis of gross primary production in Tibetan alpine grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 466-486.	3.0	50
100	Global patterns of ecosystem carbon flux in forests: A biometric data-based synthesis. <i>Global Biogeochemical Cycles</i> , 2014, 28, 962-973.	4.9	35
101	Effects of Substrate Addition on Soil Respiratory Carbon Release Under Long-Term Warming and Clipping in a Tallgrass Prairie. <i>PLoS ONE</i> , 2014, 9, e114203.	2.5	12
102	The impact of agricultural land use changes on soil organic carbon dynamics in the Danjiangkou Reservoir area of China. <i>Plant and Soil</i> , 2013, 366, 415-424.	3.7	98
103	Vegetation and Soil 15N Natural Abundance in Alpine Grasslands on the Tibetan Plateau: Patterns and Implications. <i>Ecosystems</i> , 2013, 16, 1013-1024.	3.4	33
104	Variations of root and heterotrophic respiration along environmental gradients in China's forests. <i>Journal of Plant Ecology</i> , 2013, 6, 358-367.	2.3	22
105	Effects of Forest Age on Soil Autotrophic and Heterotrophic Respiration Differ between Evergreen and Deciduous Forests. <i>PLoS ONE</i> , 2013, 8, e80937.	2.5	12
106	Widespread decreases in topsoil inorganic carbon stocks across China's grasslands during 1980s–2000s. <i>Global Change Biology</i> , 2012, 18, 3672-3680.	9.5	65
107	Geography, environment, and spatial turnover of species in China's grasslands. <i>Ecography</i> , 2012, 35, 1103-1109.	4.5	30
108	Significant soil acidification across northern China's grasslands during 1980s–2000s. <i>Global Change Biology</i> , 2012, 18, 2292-2300.	9.5	200

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109	Carbon and nitrogen stoichiometry in forest ecosystems during stand development. <i>Global Ecology and Biogeography</i> , 2011, 20, 354-361.	5.8	144
110	Isometric biomass partitioning pattern in forest ecosystems: evidence from temporal observations during stand development. <i>Journal of Ecology</i> , 2011, 99, 431-437.	4.0	19
111	Responses of ecosystem nitrogen cycle to nitrogen addition: a meta-analysis. <i>New Phytologist</i> , 2011, 189, 1040-1050.	7.3	383
112	Carbon and nitrogen dynamics during forest stand development: a global synthesis. <i>New Phytologist</i> , 2011, 190, 977-989.	7.3	221
113	Minor stimulation of soil carbon storage by nitrogen addition: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 234-244.	5.3	390
114	Terrestrial C:N stoichiometry in response to elevated CO ₂ and N addition: a synthesis of two meta-analyses. <i>Plant and Soil</i> , 2011, 343, 393-400.	3.7	78
115	Biomass carbon stocks and their changes in northern China's grasslands during 1982-2006. <i>Science China Life Sciences</i> , 2010, 53, 841-850.	4.9	118
116	Patterns of above- and belowground biomass allocation in China's grasslands: Evidence from individual-level observations. <i>Science China Life Sciences</i> , 2010, 53, 851-857.	4.9	66
117	Ecosystem carbon stocks and their changes in China's grasslands. <i>Science China Life Sciences</i> , 2010, 53, 757-765.	4.9	153
118	Soil carbon stock and its changes in northern China's grasslands from 1980s to 2000s. <i>Global Change Biology</i> , 2010, 16, 3036-3047.	9.5	169
119	Large-scale pattern of biomass partitioning across China's grasslands. <i>Global Ecology and Biogeography</i> , 2010, 19, 268-277.	5.8	210
120	Environmental factors covary with plant diversity-productivity relationships among Chinese grassland sites. <i>Global Ecology and Biogeography</i> , 2010, 19, 233-243.	5.8	150
121	Soil inorganic carbon stock in the Tibetan alpine grasslands. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	63
122	Rain use efficiency across a precipitation gradient on the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	80
123	Changes in topsoil carbon stock in the Tibetan grasslands between the 1980s and 2004. <i>Global Change Biology</i> , 2009, 15, 2723-2729.	9.5	135
124	Above- and belowground biomass allocation in Tibetan grasslands. <i>Journal of Vegetation Science</i> , 2009, 20, 177-184.	2.2	264
125	Above- and belowground biomass in relation to environmental factors in temperate grasslands, Inner Mongolia. <i>Science in China Series C: Life Sciences</i> , 2008, 51, 263-270.	1.3	99
126	Storage, patterns and controls of soil organic carbon in the Tibetan grasslands. <i>Global Change Biology</i> , 2008, 14, 1592-1599.	9.5	462

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127	Relationship between variability in aboveground net primary production and precipitation in global grasslands. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	139
128	Storage, Patterns and Controls of Soil Nitrogen in China. <i>Pedosphere</i> , 2007, 17, 776-785.	4.0	60
129	Storage, patterns and environmental controls of soil organic carbon in China. <i>Biogeochemistry</i> , 2007, 84, 131-141.	3.5	238
130	Decreased ultraviolet radiation and decomposer biodiversity inhibit litter decomposition under continuous nitrogen inputs. <i>Functional Ecology</i> , 0, , .	3.6	6
131	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. <i>Frontiers in Environmental Science</i> , 0, 10, .	3.3	9