

S S Peng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/47344/publications.pdf>

Version: 2024-02-01

182
papers

26,789
citations

13068

68
h-index

6282

158
g-index

232
all docs

232
docs citations

232
times ranked

24835
citing authors

#	ARTICLE	IF	CITATIONS
1	The impacts of climate change on water resources and agriculture in China. <i>Nature</i> , 2010, 467, 43-51.	13.7	2,656
2	Rice yields decline with higher night temperature from global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9971-9975.	3.3	1,859
3	Temperature increase reduces global yields of major crops in four independent estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9326-9331.	3.3	1,708
4	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795.	8.1	1,675
5	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	3.7	1,199
6	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. <i>Nature</i> , 2015, 524, 335-338.	13.7	1,185
7	Surface Urban Heat Island Across 419 Global Big Cities. <i>Environmental Science & Technology</i> , 2012, 46, 696-703.	4.6	864
8	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	3.7	824
9	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015, 526, 104-107.	13.7	637
10	Detection and attribution of vegetation greening trend in China over the last 30 years. <i>Global Change Biology</i> , 2015, 21, 1601-1609.	4.2	597
11	Afforestation in China cools local land surface temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2915-2919.	3.3	501
12	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. <i>Nature</i> , 2013, 501, 88-92.	13.7	482
13	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015, 7, 47-85.	3.7	463
14	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014, 5, 5018.	5.8	414
15	Leaf onset in the northern hemisphere triggered by daytime temperature. <i>Nature Communications</i> , 2015, 6, 6911.	5.8	384
16	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017, 7, 432-436.	8.1	323
17	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019, 3, 772-779.	3.4	316
18	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3882-3887.	3.3	296

#	ARTICLE	IF	CITATIONS
19	Divergent hydrological response to large-scale afforestation and vegetation greening in China. <i>Science Advances</i> , 2018, 4, eaar4182.	4.7	287
20	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	13.7	284
21	Recent change of vegetation growth trend in China. <i>Environmental Research Letters</i> , 2011, 6, 044027.	2.2	255
22	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 775-792.	1.9	241
23	Temperature sensitivity of soil respiration in different ecosystems in China. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1008-1014.	4.2	223
24	Partitioning global land evapotranspiration using CMIP5 models constrained by observations. <i>Nature Climate Change</i> , 2018, 8, 640-646.	8.1	219
25	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016, 531, 357-361.	13.7	214
26	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project – Part 1: Overview and experimental design. <i>Geoscientific Model Development</i> , 2013, 6, 2121-2133.	1.3	212
27	Gross and net land cover changes in the main plant functional types derived from the annual ESA CCI land cover maps (1992–2015). <i>Earth System Science Data</i> , 2018, 10, 219-234.	3.7	193
28	Extension of the growing season increases vegetation exposure to frost. <i>Nature Communications</i> , 2018, 9, 426.	5.8	190
29	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017, 7, 359-363.	8.1	183
30	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. <i>Global Biogeochemical Cycles</i> , 2014, 28, 585-600.	1.9	181
31	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017, 23, 4854-4872.	4.2	158
32	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. <i>Scientific Reports</i> , 2017, 7, 4765.	1.6	156
33	Deceleration of China's human water use and its key drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7702-7711.	3.3	155
34	A simplified, data-constrained approach to estimate the permafrost carbon-climate feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140423.	1.6	149
35	Afforestation neutralizes soil pH. <i>Nature Communications</i> , 2018, 9, 520.	5.8	140
36	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018, 45, 2852-2859.	1.5	136

#	ARTICLE	IF	CITATIONS
37	ORCHIDEE-MICT (v8.4.1), a land surface model for the high latitudes: model description and validation. <i>Geoscientific Model Development</i> , 2018, 11, 121-163.	1.3	135
38	The impacts of climate extremes on the terrestrial carbon cycle: A review. <i>Science China Earth Sciences</i> , 2019, 62, 1551-1563.	2.3	134
39	Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020, 4, 1075-1083.	3.4	134
40	Precipitation amount, seasonality and frequency regulate carbon cycling of a semi-arid grassland ecosystem in Inner Mongolia, China: A modeling analysis. <i>Agricultural and Forest Meteorology</i> , 2013, 178-179, 46-55.	1.9	130
41	Global wetland contribution to 2000–2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017, 12, 094013.	2.2	129
42	Global evapotranspiration over the past three decades: estimation based on the water balance equation combined with empirical models. <i>Environmental Research Letters</i> , 2012, 7, 014026.	2.2	126
43	Change in snow phenology and its potential feedback to temperature in the Northern Hemisphere over the last three decades. <i>Environmental Research Letters</i> , 2013, 8, 014008.	2.2	125
44	Five decades of northern land carbon uptake revealed by the interhemispheric CO ₂ gradient. <i>Nature</i> , 2019, 568, 221-225.	13.7	124
45	A representation of the phosphorus cycle for ORCHIDEE (revision 4520). <i>Geoscientific Model Development</i> , 2017, 10, 3745-3770.	1.3	122
46	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	2.2	119
47	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1015-1037.	1.9	116
48	Change in winter snow depth and its impacts on vegetation in China. <i>Global Change Biology</i> , 2010, 16, 3004-3013.	4.2	115
49	Plausible rice yield losses under future climate warming. <i>Nature Plants</i> , 2017, 3, 16202.	4.7	114
50	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	5.4	110
51	Inventory of anthropogenic methane emissions in mainland China from 1980 to 2010. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14545-14562.	1.9	107
52	Winter soil CO ₂ efflux and its contribution to annual soil respiration in different ecosystems of a forest-steppe ecotone, north China. <i>Soil Biology and Biochemistry</i> , 2010, 42, 451-458.	4.2	106
53	Are ecological gradients in seasonal Q ₁₀ of soil respiration explained by climate or by vegetation seasonality?. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1728-1734.	4.2	106
54	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , 2021, 12, 118.	5.8	106

#	ARTICLE	IF	CITATIONS
55	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012, 9, 3571-3586.	1.3	103
56	Future impacts of climate change on inland Ramsar wetlands. <i>Nature Climate Change</i> , 2021, 11, 45-51.	8.1	103
57	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. <i>Global Ecology and Biogeography</i> , 2016, 25, 311-323.	2.7	102
58	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016, 22, 2165-2177.	4.2	100
59	Declining snow cover may affect spring phenological trend on the Tibetan Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2854-5.	3.3	92
60	The influence of local spring temperature variance on temperature sensitivity of spring phenology. <i>Global Change Biology</i> , 2014, 20, 1473-1480.	4.2	90
61	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	1.9	85
62	Soil moisture and hydrology projections of the permafrost region – a model intercomparison. <i>Cryosphere</i> , 2020, 14, 445-459.	1.5	85
63	A New High-Resolution N ₂ O Emission Inventory for China in 2008. <i>Environmental Science & Technology</i> , 2014, 48, 8538-8547.	4.6	82
64	Identification of typical diurnal patterns for clear-sky climatology of surface urban heat islands. <i>Remote Sensing of Environment</i> , 2018, 217, 203-220.	4.6	80
65	Velocity of change in vegetation productivity over northern high latitudes. <i>Nature Ecology and Evolution</i> , 2017, 1, 1649-1654.	3.4	79
66	Modelling the impacts of climate and land use changes on soil water erosion: Model applications, limitations and future challenges. <i>Journal of Environmental Management</i> , 2019, 250, 109403.	3.8	76
67	Revisiting enteric methane emissions from domestic ruminants and their $\delta^{13}C$ CH ₄ source signature. <i>Nature Communications</i> , 2019, 10, 3420.	5.8	75
68	Field warming experiments shed light on the wheat yield response to temperature in China. <i>Nature Communications</i> , 2016, 7, 13530.	5.8	73
69	Seasonally different response of photosynthetic activity to daytime and nighttime warming in the Northern Hemisphere. <i>Global Change Biology</i> , 2015, 21, 377-387.	4.2	72
70	Age-Related Modulation of the Nitrogen Resorption Efficiency Response to Growth Requirements and Soil Nitrogen Availability in a Temperate Pine Plantation. <i>Ecosystems</i> , 2016, 19, 698-709.	1.6	71
71	Global terrestrial carbon fluxes of 1999–2019 estimated by upscaling eddy covariance data with a random forest. <i>Scientific Data</i> , 2020, 7, 313.	2.4	71
72	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwaa145.	4.6	70

#	ARTICLE	IF	CITATIONS
73	Stoichiometric models of microbial metabolic limitation in soil systems. <i>Global Ecology and Biogeography</i> , 2021, 30, 2297-2311.	2.7	64
74	Evaluation of an improved intermediate complexity snow scheme in the ORCHIDEE land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6064-6079.	1.2	63
75	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. <i>Earth's Future</i> , 2017, 5, 730-749.	2.4	59
76	Quantifying uncertainties of permafrost carbon-climate feedbacks. <i>Biogeosciences</i> , 2017, 14, 3051-3066.	1.3	59
77	The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. <i>Geophysical Research Letters</i> , 2017, 44, 3209-3218.	1.5	58
78	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. <i>Biogeosciences</i> , 2017, 14, 5053-5067.	1.3	58
79	Regional trends and drivers of the global methane budget. <i>Global Change Biology</i> , 2022, 28, 182-200.	4.2	56
80	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink. <i>Nature Communications</i> , 2022, 13, 880.	5.8	55
81	Rapid degradation of permafrost underneath waterbodies in tundra landscapes—Toward a representation of thermokarst in land surface models. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2446-2470.	1.0	54
82	Major forest changes and land cover transitions based on plant functional types derived from the ESA CCI Land Cover product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 47, 30-39.	1.4	52
83	Testing conceptual and physically based soil hydrology schemes against observations for the Amazon Basin. <i>Geoscientific Model Development</i> , 2014, 7, 1115-1136.	1.3	49
84	Single-leaf and canopy photosynthesis of rice Citation: Sheehy JE, Mitchell PL, Hardy B, editors. 2000. Redesigning rice photosynthesis to increase yield. <i>Proceedings of the Workshop on The Quest to Reduce Hunger: Redesigning Rice Photosynthesis</i> , 30 Nov.-3 Dec. 1999, Los Baños, Philippines. Makati City (Philippines): International Rice Research Institute and Amsterdam (The Netherlands): Elsevier Science B.V. 293 p.. <i>Studies in Plant Science</i> , 2000, 7, 213-228.	0.5	48
85	Toward "optimal" integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015, 42, 4418-4428.	1.5	48
86	Benchmarking the seasonal cycle of CO ₂ fluxes simulated by terrestrial ecosystem models. <i>Global Biogeochemical Cycles</i> , 2015, 29, 46-64.	1.9	48
87	Sensitivity of land use change emission estimates to historical land use and land cover mapping. <i>Global Biogeochemical Cycles</i> , 2017, 31, 626-643.	1.9	48
88	On the causes of trends in the seasonal amplitude of atmospheric CO ₂ . <i>Global Change Biology</i> , 2018, 24, 608-616.	4.2	48
89	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 430-446.	1.3	47
90	Evaluating biases in simulated land surface albedo from CMIP5 global climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6178-6190.	1.2	46

#	ARTICLE	IF	CITATIONS
91	Temporal response of soil organic carbon after grassland-related land-use change. <i>Global Change Biology</i> , 2018, 24, 4731-4746.	4.2	44
92	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. <i>Biogeosciences</i> , 2017, 14, 5143-5169.	1.3	43
93	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ , water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018, 11, 497-519.	1.3	43
94	The role of northern peatlands in the global carbon cycle for the 21st century. <i>Global Ecology and Biogeography</i> , 2020, 29, 956-973.	2.7	43
95	Site-level model intercomparison of high latitude and high altitude soil thermal dynamics in tundra and barren landscapes. <i>Cryosphere</i> , 2015, 9, 1343-1361.	1.5	41
96	The Effect of Afforestation on Soil Moisture Content in Northeastern China. <i>PLoS ONE</i> , 2016, 11, e0160776.	1.1	41
97	Attribution of seasonal leaf area index trends in the northern latitudes with optimally integrated ecosystem models. <i>Global Change Biology</i> , 2017, 23, 4798-4813.	4.2	41
98	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO ₂ and greening observations. <i>Geophysical Research Letters</i> , 2016, 43, 11,339.	1.5	40
99	Summer soil moisture regulated by precipitation frequency in China. <i>Environmental Research Letters</i> , 2009, 4, 044012.	2.2	39
100	Reducing uncertainties in decadal variability of the global carbon budget with multiple datasets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13104-13108.	3.3	39
101	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017, 12, 064007.	2.2	39
102	Grassland restoration reduces water yield in the headstream region of Yangtze River. <i>Scientific Reports</i> , 2017, 7, 2162.	1.6	39
103	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. <i>Science Advances</i> , 2019, 5, eaau8932.	4.7	39
104	The Key Role of Production Efficiency Changes in Livestock Methane Emission Mitigation. <i>AGU Advances</i> , 2021, 2, e2021AV000391.	2.3	39
105	Evaluation of air-soil temperature relationships simulated by land surface models during winter across the permafrost region. <i>Cryosphere</i> , 2016, 10, 1721-1737.	1.5	38
106	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. <i>Global Biogeochemical Cycles</i> , 2019, 33, 668-689.	1.9	38
107	The large mean body size of mammalian herbivores explains the productivity paradox during the Last Glacial Maximum. <i>Nature Ecology and Evolution</i> , 2018, 2, 640-649.	3.4	37
108	Large historical carbon emissions from cultivated northern peatlands. <i>Science Advances</i> , 2021, 7, .	4.7	37

#	ARTICLE	IF	CITATIONS
109	Novel Representation of Leaf Phenology Improves Simulation of Amazonian Evergreen Forest Photosynthesis in a Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2018MS001565.	1.3	36
110	Improving the dynamics of Northern Hemisphere high-latitude vegetation in the ORCHIDEE ecosystem model. <i>Geoscientific Model Development</i> , 2015, 8, 2263-2283.	1.3	36
111	A global yield dataset for major lignocellulosic bioenergy crops based on field measurements. <i>Scientific Data</i> , 2018, 5, 180169.	2.4	35
112	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , 2016, 13, 3757-3776.	1.3	34
113	How have past fire disturbances contributed to the current carbon balance of boreal ecosystems?. <i>Biogeosciences</i> , 2016, 13, 675-690.	1.3	34
114	Decoupling of greenness and gross primary productivity as aridity decreases. <i>Remote Sensing of Environment</i> , 2022, 279, 113120.	4.6	34
115	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. <i>Geoscientific Model Development</i> , 2018, 11, 3903-3928.	1.3	32
116	Trade-off between tree planting and wetland conservation in China. <i>Nature Communications</i> , 2022, 13, 1967.	5.8	32
117	Decadal trends in the seasonal-cycle amplitude of terrestrial CO ₂ exchange resulting from the ensemble of terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 28968.	0.8	31
118	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. <i>Nature Communications</i> , 2018, 9, 5391.	5.8	31
119	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006893.	1.9	31
120	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , 2017, 12, 045002.	2.2	30
121	Dominant regions and drivers of the variability of the global land carbon sink across timescales. <i>Global Change Biology</i> , 2018, 24, 3954-3968.	4.2	30
122	Representing anthropogenic gross land use change, wood harvest, and forest age dynamics in a global vegetation model ORCHIDEE-MICT v8.4.2. <i>Geoscientific Model Development</i> , 2018, 11, 409-428.	1.3	30
123	Temperature sensitivity of soil respiration across multiple time scales in a temperate plantation forest. <i>Science of the Total Environment</i> , 2019, 688, 479-485.	3.9	30
124	Surface conductance for evapotranspiration of tropical forests: Calculations, variations, and controls. <i>Agricultural and Forest Meteorology</i> , 2019, 275, 317-328.	1.9	28
125	Inventory of methane emissions from livestock in China from 1980 to 2013. <i>Atmospheric Environment</i> , 2018, 184, 69-76.	1.9	27
126	Spring snow cover deficit controlled by intraseasonal variability of the surface energy fluxes. <i>Environmental Research Letters</i> , 2015, 10, 024018.	2.2	26

#	ARTICLE	IF	CITATIONS
127	Regional patterns of future runoff changes from Earth system models constrained by observation. <i>Geophysical Research Letters</i> , 2017, 44, 5540-5549.	1.5	26
128	Broad Consistency Between Satellite and Vegetation Model Estimates of Net Primary Productivity Across Global and Regional Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3603-3616.	1.3	26
129	Fire enhances forest degradation within forest edge zones in Africa. <i>Nature Geoscience</i> , 2021, 14, 479-483.	5.4	26
130	Root respiration and its relation to nutrient contents in soil and root and EVI among 8 ecosystems, northern China. <i>Plant and Soil</i> , 2010, 333, 391-401.	1.8	25
131	Assessment of model estimates of land-atmosphere CO ₂ exchange across Northern Eurasia. <i>Biogeosciences</i> , 2015, 12, 4385-4405.	1.3	25
132	Was the extreme Northern Hemisphere greening in 2015 predictable?. <i>Environmental Research Letters</i> , 2017, 12, 044016.	2.2	25
133	Recent Slowdown of Anthropogenic Methane Emissions in China Driven by Stabilized Coal Production. <i>Environmental Science and Technology Letters</i> , 2021, 8, 739-746.	3.9	25
134	Spatiotemporal variations in the difference between satellite-observed daily maximum land surface temperature and station-based daily maximum near-surface air temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2254-2268.	1.2	24
135	Contributions of Climate Change, CO ₂ , Land-Use Change, and Human Activities to Changes in River Flow across 10 Chinese Basins. <i>Journal of Hydrometeorology</i> , 2018, 19, 1899-1914.	0.7	24
136	A global map of planting years of plantations. <i>Scientific Data</i> , 2022, 9, 141.	2.4	24
137	Re-evaluating the 1940s CO ₂ plateau. <i>Biogeosciences</i> , 2016, 13, 4877-4897.	1.3	22
138	The carbon sequestration potential of China's grasslands. <i>Ecosphere</i> , 2018, 9, e02452.	1.0	22
139	Attribution of Lake Warming in Four Shallow Lakes in the Middle and Lower Yangtze River Basin. <i>Environmental Science & Technology</i> , 2019, 53, 12548-12555.	4.6	22
140	Changing the retention properties of catchments and their influence on runoff under climate change. <i>Environmental Research Letters</i> , 2018, 13, 094019.	2.2	21
141	A comparative study of anthropogenic CH ₄ emissions over China based on the ensembles of bottom-up inventories. <i>Earth System Science Data</i> , 2021, 13, 1073-1088.	3.7	20
142	Changes in forest biomass over China during the 2000s and implications for management. <i>Forest Ecology and Management</i> , 2015, 357, 76-83.	1.4	19
143	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018, 45, 1058-1068.	1.5	19
144	Irrigation, damming, and streamflow fluctuations of the Yellow River. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1133-1150.	1.9	19

#	ARTICLE	IF	CITATIONS
145	Simulating soil organic carbon in yedoma deposits during the Last Glacial Maximum in a land surface model. <i>Geophysical Research Letters</i> , 2016, 43, 5133-5142.	1.5	18
146	ORCHIDEE-MICT-BIOENERGY: an attempt to represent the production of lignocellulosic crops for bioenergy in a global vegetation model. <i>Geoscientific Model Development</i> , 2018, 11, 2249-2272.	1.3	18
147	Simulating CH ₄ and CO ₂ over South and East Asia using the zoomed chemistry transport model LMDz-INCA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9475-9497.	1.9	18
148	Modelling northern peatland area and carbon dynamics since the Holocene with the ORCHIDEE-PEAT land surface model (SVN r5488). <i>Geoscientific Model Development</i> , 2019, 12, 2961-2982.	1.3	18
149	Changes in productivity and carbon storage of grasslands in China under future global warming scenarios of 1.5°C and 2°C. <i>Journal of Plant Ecology</i> , 2019, 12, 804-814.	1.2	18
150	Simulated high-latitude soil thermal dynamics during the past 4 decades. <i>Cryosphere</i> , 2016, 10, 179-192.	1.5	17
151	Tropical forest soils serve as substantial and persistent methane sinks. <i>Scientific Reports</i> , 2019, 9, 16799.	1.6	16
152	Impacts of Satellite-Based Snow Albedo Assimilation on Offline and Coupled Land Surface Model Simulations. <i>PLoS ONE</i> , 2015, 10, e0137275.	1.1	16
153	Response to Comment on "Surface Urban Heat Island Across 419 Global Big Cities". <i>Environmental Science & Technology</i> , 2012, 46, 6889-6890.	4.6	15
154	Multimodel projections and uncertainties of net ecosystem production in China over the twenty-first century. <i>Science Bulletin</i> , 2014, 59, 4681-4691.	1.7	15
155	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020, 26, 1474-1484.	4.2	15
156	Improvement of the Irrigation Scheme in the ORCHIDEE Land Surface Model and Impacts of Irrigation on Regional Water Budgets Over China. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001770.	1.3	15
157	Soil moisture seasonality alters vegetation response to drought in the Mongolian Plateau. <i>Environmental Research Letters</i> , 2021, 16, 014050.	2.2	15
158	A Process-Based Model Integrating Remote Sensing Data for Evaluating Ecosystem Services. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002451.	1.3	15
159	Causes of slowing down seasonal CO ₂ amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020, 26, 4462-4477.	4.2	14
160	A strong mitigation scenario maintains climate neutrality of northern peatlands. <i>One Earth</i> , 2022, 5, 86-97.	3.6	14
161	Evaluation of ORCHIDEE-MICT-simulated soil moisture over China and impacts of different atmospheric forcing data. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5463-5484.	1.9	13
162	Quantifying the unauthorized lake water withdrawals and their impacts on the water budget of eutrophic lake Dianchi, China. <i>Journal of Hydrology</i> , 2018, 565, 39-48.	2.3	13

#	ARTICLE	IF	CITATIONS
163	Evidence and mapping of extinction debts for global forest-dwelling reptiles, amphibians and mammals. <i>Scientific Reports</i> , 2017, 7, 44305.	1.6	11
164	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO ₂ amplification over northern lands. <i>Environmental Research Letters</i> , 2018, 13, 124008.	2.2	11
165	Spatial Pattern and Environmental Drivers of Acid Phosphatase Activity in Europe. <i>Frontiers in Big Data</i> , 2019, 2, 51.	1.8	11
166	Low and contrasting impacts of vegetation CO ₂ fertilization on global terrestrial runoff over 1982–2010: accounting for aboveground and belowground vegetation CO ₂ effects. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3411-3427.	1.9	11
167	Ectomycorrhizal fungi respiration quantification and drivers in three differently-aged larch plantations. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 245-251.	1.9	10
168	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. <i>Environmental Pollution</i> , 2020, 258, 113728.	3.7	10
169	A Warm Summer is Unlikely to Stop Transmission of COVID-19 Naturally. <i>GeoHealth</i> , 2020, 4, e2020GH000292.	1.9	10
170	Long-term linear trends mask phenological shifts. <i>International Journal of Biometeorology</i> , 2016, 60, 1611-1613.	1.3	9
171	Strong but Intermittent Spatial Covariations in Tropical Land Temperature. <i>Geophysical Research Letters</i> , 2019, 46, 356-364.	1.5	9
172	Wetlands Cool Land Surface Temperature in Tropical Regions but Warm in Boreal Regions. <i>Remote Sensing</i> , 2021, 13, 1439.	1.8	8
173	Comment on "Surface Urban Heat Island Across 419 Global Big Cities", <i>Environmental Science & Technology</i> , 2012, 46, 6888-6888.	4.6	7
174	Wetlands of North Africa During the Mid-Holocene Were at Least Five Times the Area Today. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094194.	1.5	7
175	Gridded maps of wetlands dynamics over mid-low latitudes for 1980–2020 based on TOPMODEL. <i>Scientific Data</i> , 2022, 9, .	2.4	7
176	Mapping global forest biomass and its changes over the first decade of the 21st century. <i>Science China Earth Sciences</i> , 2019, 62, 585-594.	2.3	6
177	Relations between bacterial communities and enzyme functions of two paddy soils. <i>European Journal of Soil Science</i> , 2018, 69, 655-665.	1.8	5
178	Gross changes in forest area shape the future carbon balance of tropical forests. <i>Biogeosciences</i> , 2018, 15, 91-103.	1.3	3
179	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1715-1734.	1.3	3
180	Analysis of slight precipitation in China during the past decades and its relationship with advanced very high radiometric resolution normalized difference vegetation index. <i>International Journal of Climatology</i> , 2018, 38, 5563-5575.	1.5	2

#	ARTICLE	IF	CITATIONS
181	Reply to Comment by Rigolot on "Narratives Behind Livestock Methane Mitigation Studies Matter"; AGU Advances, 2021, 2, e2021AV000549.	2.3	2
182	Reply to: Disentangling biology from mathematical necessity in twentieth-century gymnosperm resilience trends. Nature Ecology and Evolution, 2021, 5, 736-737.	3.4	1