Hanqin Tian

List of Publications by Year
in descending order

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311	35,264	3731 89	4342 173
papers	citations	h-index	g-index

393	393	393	29282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
2	The Global Methane Budget 2000â€“2017. Earth System Science Data, 2020, 12, 1561-1623.	9.9	1,199
3	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
4	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
5	Spatial and temporal patterns of China's cropland during 1990â€“2000: An analysis based on Landsat TM data. Remote Sensing of Environment, 2005, 98, 442-456.	11.0	918
6	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
7	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	9.9	824
8	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	27.8	814
9	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
10	Carbon balance of the terrestrial biosphere in the Twentieth Century: Analyses of CO2, climate and land use effects with four process-based ecosystem models. Global Biogeochemical Cycles, 2001, 15, 183-206.	4.9	680
11	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
12	Terrestrial biosphere models need better representation of vegetation phenology: results from the <scp>N</scp>orth <scp>A</scp>merican <scp>C</scp>arbon <scp>P</scp>rogram <scp>S</scp>ite <scp>S</scp>ynthesis. Global Change Biology, 2012, 18, 566-584.	9.5	583
13	Pattern and variation of C:N:P ratios in Chinaâ€™s soils: a synthesis of observational data. Biogeochemistry, 2010, 98, 139-151.	3.5	562
14	Global patterns of drought recovery. Nature, 2017, 548, 202-205.	27.8	560
15	Contribution of Increasing CO2 and Climate to Carbon Storage by Ecosystems in the United States. Science, 2000, 287, 2004-2006.	12.6	526
16	Present state of global wetland extent and wetland methane modelling: conclusions from a model inter-comparison project (WETCHIMP). Biogeosciences, 2013, 10, 753-788.	3.3	475
17	Global nitrogen and phosphorus fertilizer use for agriculture production in the past half century: shifted hot spots and nutrient imbalance. Earth System Science Data, 2017, 9, 181-192.	9.9	445
18	Effect of interannual climate variability on carbon storage in Amazonian ecosystems. Nature, 1998, 396, 664-667.	27.8	419

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19	Spatial and temporal patterns of nitrogen deposition in China: Synthesis of observational data. Journal of Geophysical Research, 2007, 112, .	3.3	412
20	Assessing the impacts of 1.5â€Â°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	3.6	410
21	The terrestrial biosphere as a net source of greenhouse gases to the atmosphere. Nature, 2016, 531, 225-228.	27.8	402
22	Toward more realistic projections of soil carbon dynamics by Earth system models. Global Biogeochemical Cycles, 2016, 30, 40-56.	4.9	343
23	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	12.6	317
24	Regional mapping of human settlements in southeastern China with multisensor remotely sensed data. Remote Sensing of Environment, 2008, 112, 3668-3679.	11.0	300
25	Model estimates of net primary productivity, evapotranspiration, and water use efficiency in the terrestrial ecosystems of the southern United States during 1895â€“2007. Forest Ecology and Management, 2010, 259, 1311-1327.	3.2	300
26	A modelâ€data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	274
27	Temperature Changes in Central Asia from 1979 to 2011 Based on Multiple Datasets*. Journal of Climate, 2014, 27, 1143-1167.	3.2	262
28	A modelâ€data intercomparison of CO₂ exchange across North America: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	247
29	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. Global Biogeochemical Cycles, 2015, 29, 775-792.	4.9	241
30	Widespread seasonal compensation effects of spring warming on northern plant productivity. Nature, 2018, 562, 110-114.	27.8	240
31	Ecosystemâ€“atmosphere exchange of CH₄ and N₂O and ecosystem respiration in wetlands in the Sanjiang Plain, Northeastern China. Global Change Biology, 2009, 15, 692-705.	9.5	232
32	Terrestrial biosphere model performance for interâ€annual variability of landâ€atmosphere <scp><scp>CO₂</scp></scp> exchange. Global Change Biology, 2012, 18, 1971-1987.	9.5	232
33	China's terrestrial carbon balance: Contributions from multiple global change factors. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	231
34	Acceleration of global N2O emissions seen from two decades of atmospheric inversion. Nature Climate Change, 2019, 9, 993-998.	18.8	229
35	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. Science Advances, 2020, 6, eaba2724.	10.3	229
36	Forty years of reform and opening up: Chinaâ€™s progress toward a sustainable path. Science Advances, 2019, 5, eaau9413.	10.3	222

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37	Do nitrogen fertilizers stimulate or inhibit methane emissions from rice fields?. Global Change Biology, 2012, 18, 3259-3267.	9.5	215
38	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. Global Change Biology, 2019, 25, 640-659.	9.5	214
39	The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project â€“ Part 1: Overview and experimental design. Geoscientific Model Development, 2013, 6, 2121-2133.	3.6	212
40	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. Ecological Modelling, 2012, 232, 144-157.	2.5	207
41	The North American Carbon Program Multi-scale Synthesis and Terrestrial Model Intercomparison Project â€“ Part 2: Environmental driver data. Geoscientific Model Development, 2014, 7, 2875-2893.	3.6	207
42	Economic losses due to ozone impacts on human health, forest productivity and crop yield across China. Environment International, 2019, 131, 104966.	10.0	205
43	Extension of the growing season due to delayed autumn over mid and high latitudes in North America during 1982â€“2006. Global Ecology and Biogeography, 2012, 21, 260-271.	5.8	189
44	China's land cover and land use change from 1700 to 2005: Estimations from highâ€resolution satellite data and historical archives. Global Biogeochemical Cycles, 2010, 24, .	4.9	188
45	China's changing landscape during the 1990s: Large-scale land transformations estimated with satellite data. Geophysical Research Letters, 2005, 32, .	4.0	186
46	History of land use in India during 1880â€“2010: Large-scale land transformations reconstructed from satellite data and historical archives. Global and Planetary Change, 2014, 121, 78-88.	3.5	184
47	Impact of largeâ€scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. Global Biogeochemical Cycles, 2014, 28, 585-600.	4.9	181
48	Global methane and nitrous oxide emissions from terrestrial ecosystems due to multiple environmental changes. Ecosystem Health and Sustainability, 2015, 1, 1-20.	3.1	180
49	Drivers of change in Chinaâ€™s energy-related CO ₂ emissions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29-36.	7.1	174
50	Can N₂O emissions offset the benefits from soil organic carbon storage?. Global Change Biology, 2021, 27, 237-256.	9.5	174
51	Effects of elevated carbon dioxide and increased temperature on methane and nitrous oxide fluxes: evidence from field experiments. Frontiers in Ecology and the Environment, 2012, 10, 520-527.	4.0	172
52	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	12.8	168
53	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). Geoscientific Model Development, 2013, 6, 617-641.	3.6	165
54	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. Scientific Reports, 2017, 7, 4765.	3.3	156

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55	Spatial and temporal patterns of CH₄ and N₂O fluxes in terrestrial ecosystems of North America during 1979â€“2008: application of a global biogeochemistry model. Biogeosciences, 2010, 7, 2673-2694.	3.3	153
56	Effects of Landâ€Use and Landâ€Cover Change on Evapotranspiration and Water Yield in China During 1900â€2000¹. Journal of the American Water Resources Association, 2008, 44, 1193-1207.	2.4	152
57	Increased control of vegetation on global terrestrial energy fluxes. Nature Climate Change, 2020, 10, 356-362.	18.8	152
58	Carbon Budget of Tidal Wetlands, Estuaries, and Shelf Waters of Eastern North America. Global Biogeochemical Cycles, 2018, 32, 389-416.	4.9	147
59	Global ammonia emissions from synthetic nitrogen fertilizer applications in agricultural systems: Empirical and processâ€based estimates and uncertainty. Global Change Biology, 2019, 25, 314-326.	9.5	147
60	Amazon drought and forest response: Largely reduced forest photosynthesis but slightly increased canopy greenness during the extreme drought of 2015/2016. Global Change Biology, 2018, 24, 1919-1934.	9.5	145
61	Net exchanges of CO₂, CH₄, and N₂O between China's terrestrial ecosystems and the atmosphere and their contributions to global climate warming. Journal of Geophysical Research, 2011, 116, .	3.3	139
62	Global manure nitrogen production and application in cropland during 1860â€“2014: a 5â€arcmin gridded global dataset for Earth system modeling. Earth System Science Data, 2017, 9, 667-678.	9.9	138
63	Impacts of urbanization on carbon balance in terrestrial ecosystems of the Southern United States. Environmental Pollution, 2012, 164, 89-101.	7.5	137
64	Century-Scale Responses of Ecosystem Carbon Storage and Flux to Multiple Environmental Changes in the Southern United States. Ecosystems, 2012, 15, 674-694.	3.4	130
65	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. Hydrology and Earth System Sciences, 2020, 24, 1485-1509.	4.9	130
66	Global wetland contribution to 2000â€“2012 atmospheric methane growth rate dynamics. Environmental Research Letters, 2017, 12, 094013.	5.2	129
67	Accelerated increase in vegetation carbon sequestration in China after 2010: A turning point resulting from climate and human interaction. Global Change Biology, 2021, 27, 5848-5864.	9.5	127
68	Responses of global terrestrial evapotranspiration to climate change and increasing atmospheric <scp>CO₂</scp> in the 21st century. Earth's Future, 2015, 3, 15-35.	6.3	125
69	The Global N2O Model Intercomparison Project. Bulletin of the American Meteorological Society, 2018, 99, 1231-1251.	3.3	123
70	Pools and distributions of soil phosphorus in China. Global Biogeochemical Cycles, 2005, 19, .	4.9	122
71	Individual and combined effects of land use/cover and climate change on Wolf Bay watershed streamflow in southern Alabama. Hydrological Processes, 2014, 28, 5530-5546.	2.6	120
72	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. Environmental Research Letters, 2015, 10, 094008.	5.2	119

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73	Does a General Temperature-Dependent Q10 Model of Soil Respiration Exist at Biome and Global Scale?. Journal of Integrative Plant Biology, 2005, 47, 1288-1302.	8.5	117
74	Increased global nitrous oxide emissions from streams and rivers in the Anthropocene. Nature Climate Change, 2020, 10, 138-142.	18.8	114
75	Modelling Spatial and Temporal Patterns of Tropical Land Use Change. Journal of Biogeography, 1995, 22, 753.	3.0	113
76	North American terrestrial CO2 uptake largely offset by CH4 and N2O emissions: toward a full accounting of the greenhouse gas budget. Climatic Change, 2015, 129, 413-426.	3.6	112
77	Nitrous oxide emissions from forests and pastures of various ages in the Brazilian Amazon. Journal of Geophysical Research, 2001, 106, 34179-34188.	3.3	108
78	Evaluating water stress controls on primary production in biogeochemical and remote sensing based models. Journal of Geophysical Research, 2007, 112, .	3.3	108
79	Quantification of global and national nitrogen budgets for crop production. Nature Food, 2021, 2, 529-540.	14.0	108
80	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. Nature Communications, 2021, 12, 118.	12.8	106
81	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. Biogeosciences, 2012, 9, 3571-3586.	3.3	103
82	Reviews and syntheses: Four decades of modeling methane cycling in terrestrial ecosystems. Biogeosciences, 2016, 13, 3735-3755.	3.3	102
83	Drought in the Southern United States over the 20th century: variability and its impacts on terrestrial ecosystem productivity and carbon storage. Climatic Change, 2012, 114, 379-397.	3.6	100
84	Methane emission from global livestock sector during 1890â€“2014: Magnitude, trends and spatiotemporal patterns. Global Change Biology, 2017, 23, 4147-4161.	9.5	100
85	Chesapeake Bay nitrogen fluxes derived from a landâ€estuarine ocean biogeochemical modeling system: Model description, evaluation, and nitrogen budgets. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1666-1695.	3.0	97
86	Increasing Mississippi river discharge throughout the 21st century influenced by changes in climate, land use, and atmospheric CO‹sub›2‹/sub›. Geophysical Research Letters, 2014, 41, 4978-4986.	4.0	96
87	Food benefit and climate warming potential of nitrogen fertilizer uses in China. Environmental Research Letters, 2012, 7, 044020.	5.2	95
88	Data-driven estimates of global nitrous oxide emissions from croplands. National Science Review, 2020, 7, 441-452.	9.5	95
89	Effect of nitrogen deposition on China's terrestrial carbon uptake in the context of multifactor environmental changes. Ecological Applications, 2012, 22, 53-75.	3.8	93
90	The sensitivity of terrestrial carbon storage to historical climate variability and atmospheric CO₂ in the United States. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 414.	1.6	92

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91	Pattern and change of soil organic carbon storage in China: 1960s-1980s. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 416-427.	1.6	92
92	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	3.3	92
93	Remotely Sensed Rice Yield Prediction Using Multi-Temporal NDVI Data Derived from NOAA's-AVHRR. PLoS ONE, 2013, 8, e70816.	2.5	91
94	Past and future drought in Mongolia. Science Advances, 2018, 4, e1701832.	10.3	91
95	The sensitivity of terrestrial carbon storage to historical climate variability and atmospheric CO2 in the United States. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 414-452.	1.6	90
96	Climatic and biotic controls on annual carbon storage in Amazonian ecosystems. Global Ecology and Biogeography, 2000, 9, 315-335.	5.8	90
97	Longâ€term trends in evapotranspiration and runoff over the drainage basins of the Gulf of Mexico during 1901â€“2008. Water Resources Research, 2013, 49, 1988-2012.	4.2	90
98	Methane emissions from global rice fields: Magnitude, spatiotemporal patterns, and environmental controls. Global Biogeochemical Cycles, 2016, 30, 1246-1263.	4.9	88
99	Optimizing resource use efficiencies in the foodâ€“energyâ€“water nexus for sustainable agriculture: from conceptual model to decision support system. Current Opinion in Environmental Sustainability, 2018, 33, 104-113.	6.3	88
100	Anthropogenic and climatic influences on carbon fluxes from eastern North America to the Atlantic Ocean: A processâ€based modeling study. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 757-772.	3.0	87
101	Convergence in the relationship of CO₂ and N₂O exchanges between soil and atmosphere within terrestrial ecosystems. Global Change Biology, 2008, 14, 1651-1660.	9.5	86
102	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	4.9	85
103	Regional carbon dynamics in monsoon Asia and its implications for the global carbon cycle. Global and Planetary Change, 2003, 37, 201-201.	3.5	83
104	Effects of tropospheric ozone pollution on net primary productivity and carbon storage in terrestrial ecosystems of China. Journal of Geophysical Research, 2007, 112, .	3.3	81
105	WETCHIMP-WSL: intercomparison of wetland methane emissions models over West Siberia. Biogeosciences, 2015, 12, 3321-3349.	3.3	81
106	Evaluation of terrestrial carbon cycle models with atmospheric CO2measurements: Results from transient simulations considering increasing CO2, climate, and land-use effects. Global Biogeochemical Cycles, 2002, 16, 39-1-39-15.	4.9	79
107	Climate and land use controls over terrestrial water use efficiency in monsoon Asia. Ecohydrology, 2011, 4, 322-340.	2.4	79
108	Impacts of tropospheric ozone and climate change on net primary productivity and net carbon exchange of China's forest ecosystems. Global Ecology and Biogeography, 2011, 20, 391-406.	5.8	78

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109	<scp>C</scp>hina's crop productivity and soil carbon storage as influenced by multifactor global change. Global Change Biology, 2012, 18, 2945-2957.	9.5	78
110	Net greenhouse gas balance in response to nitrogen enrichment: perspectives from a coupled biogeochemical model. Global Change Biology, 2013, 19, 571-588.	9.5	78
111	Evaluation of continental carbon cycle simulations with North American flux tower observations. Ecological Monographs, 2013, 83, 531-556.	5.4	75
112	Revisiting enteric methane emissions from domestic ruminants and their Î´13CCH4 source signature. Nature Communications, 2019, 10, 3420.	12.8	75
113	Patterns of soil nitrogen storage in China. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	73
114	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. Journal of Geophysical Research, 2011, 116, .	3.3	72
115	Cropland redistribution to marginal lands undermines environmental sustainability. National Science Review, 2022, 9, nwab091.	9.5	71
116	Attribution of spatial and temporal variations in terrestrial methane flux over North America. Biogeosciences, 2010, 7, 3637-3655.	3.3	70
117	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. Nature Food, 2021, 2, 886-893.	14.0	68
118	A comprehensive and synthetic dataset for global, regional, and national greenhouse gas emissions by sector 1970â€“2018 with an extension to 2019. Earth System Science Data, 2021, 13, 5213-5252.	9.9	68
119	The size of the land carbon sink in China. Nature, 2022, 603, E7-E9.	27.8	67
120	Spatial and temporal patterns of CO₂ and CH₄ fluxes in Chinaâ€™s croplands in response to multifactor environmental changes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 222.	1.6	65
121	Regional contribution to variability and trends of global gross primary productivity. Environmental Research Letters, 2017, 12, 105005.	5.2	65
122	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190507.	4.0	64
123	Fluxes of nitrous oxide and methane in different coastal Suaeda salsa marshes of the Yellow River estuary, China. Chemosphere, 2013, 90, 856-865.	8.2	63
124	Half-century nitrogen deposition increase across China: A gridded time-series data set for regional environmental assessments. Atmospheric Environment, 2014, 97, 68-74.	4.1	63
125	Impact of the 2015/2016 El NiÃ±o on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170304.	4.0	63
126	Spatial and temporal patterns of carbon emissions from forest fires in China from 1950 to 2000. Journal of Geophysical Research, 2006, 111, .	3.3	61

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127	Large methane emission upon spring thaw from natural wetlands in the northern permafrost region. Environmental Research Letters, 2012, 7, 034009.	5.2	61
128	Landscape-level terrestrial methane flux observed from a very tall tower. Agricultural and Forest Meteorology, 2015, 201, 61-75.	4.8	61
129	Missing pieces to modeling the Arctic-Boreal puzzle. Environmental Research Letters, 2018, 13, 020202.	5.2	61
130	The Effects of Urbanization on Net Primary Productivity in Southeastern China. Environmental Management, 2010, 46, 404-410.	2.7	60
131	Influence of ozone pollution and climate variability on net primary productivity and carbon storage in China's grassland ecosystems from 1961 to 2000. Environmental Pollution, 2007, 149, 327-335.	7.5	59
132	Sources of Uncertainty in Regional and Global Terrestrial CO₂ Exchange Estimates. Global Biogeochemical Cycles, 2020, 34, e2019GB006393.	4.9	59
133	Effects of changing climate and cultivar on the phenology and yield of winter wheat in the North China Plain. International Journal of Biometeorology, 2016, 60, 21-32.	3.0	58
134	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814.	12.9	58
135	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. Earth System Science Data, 2022, 14, 1639-1675.	9.9	58
136	Effect of Land-Cover Change on Terrestrial Carbon Dynamics in the Southern United States. Journal of Environmental Quality, 2006, 35, 1533-1547.	2.0	57
137	Synergistic effects of climate change and grazing on net primary production of Mongolian grasslands. Ecosphere, 2016, 7, e01274.	2.2	57
138	Spatiotemporal patterns of livestock manure nutrient production in the conterminous United States from 1930 to 2012. Science of the Total Environment, 2016, 541, 1592-1602.	8.0	57
139	Carbon storage in northeast China as estimated from vegetation and soil inventories. Environmental Pollution, 2002, 116, S157-S165.	7.5	56
140	Spatial and temporal patterns of global burned area in response to anthropogenic and environmental factors: Reconstructing global fire history for the 20th and early 21st centuries. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 249-263.	3.0	56
141	Regional trends and drivers of the global methane budget. Global Change Biology, 2022, 28, 182-200.	9.5	56
142	Overview of the Large-Scale Biosphereâ€“Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
143	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. Biogeosciences, 2018, 15, 3421-3437.	3.3	55
144	Modeling and Monitoring Terrestrial Primary Production in a Changing Global Environment: Toward a Multiscale Synthesis of Observation and Simulation. Advances in Meteorology, 2014, 2014, 1-17.	1.6	54

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145	Centuryâ€long increasing trend and variability of dissolved organic carbon export from the Mississippi River basin driven by natural and anthropogenic forcing. Global Biogeochemical Cycles, 2016, 30, 1288-1299.	4.9	53
146	Regional sources of nitrous oxide over the United States: Seasonal variation and spatial distribution. Journal of Geophysical Research, 2012, 117, .	3.3	52
147	Increased greenhouse gas emissions intensity of major croplands in China: Implications for food security and climate change mitigation. Global Change Biology, 2020, 26, 6116-6133.	9.5	52
148	Methane exchange between marshland and the atmosphere over China during 1949â€“2008. Global Biogeochemical Cycles, 2012, 26, .	4.9	51
149	Impact of hydrological variations on modeling of peatland CO₂ fluxes: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	50
150	Hydrological Responses to Climate and Landâ€Use Changes along the North American East Coast: A 110â€Year Historical Reconstruction. Journal of the American Water Resources Association, 2015, 51, 47-67.	2.4	50
151	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. Global Change Biology, 2020, 26, 3336-3355.	9.5	50
152	Increased nitrogen export from eastern North America to the Atlantic Ocean due to climatic and anthropogenic changes during 1901â€“2008. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1046-1068.	3.0	49
153	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO₂. Biogeosciences, 2021, 18, 4985-5010.	3.3	49
154	Effects of multiple environment stresses on evapotranspiration and runoff over eastern China. Journal of Hydrology, 2012, 426-427, 39-54.	5.4	48
155	Toward â€œoptimalâ€•integration of terrestrial biosphere models. Geophysical Research Letters, 2015, 42, 4418-4428.	4.0	48
156	Continental-scale quantification of post-fire vegetation greenness recovery in temperate and boreal North America. Remote Sensing of Environment, 2017, 199, 277-290.	11.0	48
157	Global Nitrous Oxide Emissions From Pasturelands and Rangelands: Magnitude, Spatiotemporal Patterns, and Attribution. Global Biogeochemical Cycles, 2019, 33, 200-222.	4.9	47
158	Effects of Forest Regrowth and Urbanization on Ecosystem Carbon Storage in a Ruralâ€“Urban Gradient in the Southeastern United States. Ecosystems, 2008, 11, 1211-1222.	3.4	46
159	Contribution of increasing CO₂ and climate change to the carbon cycle in China's ecosystems. Journal of Geophysical Research, 2008, 113, .	3.3	46
160	Climate extremes dominating seasonal and interannual variations in carbon export from the Mississippi River Basin. Global Biogeochemical Cycles, 2015, 29, 1333-1347.	4.9	46
161	Largely underestimated carbon emission from land use and land cover change in the conterminous United States. Global Change Biology, 2019, 25, 3741-3752.	9.5	46
162	Weakened growth of croplandâ€N₂O emissions in China associated with nationwide policy interventions. Global Change Biology, 2019, 25, 3706-3719.	9.5	46

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163	Recent leveling off of vegetation greenness and primary production reveals the increasing soil water limitations on the greening Earth. Science Bulletin, 2021, 66, 1462-1471.	9.0	46
164	Complex Spatiotemporal Responses of Global Terrestrial Primary Production to Climate Change and Increasing Atmospheric CO2 in the 21st Century. PLoS ONE, 2014, 9, e112810.	2.5	45
165	Terrestrial carbon balance in tropical Asia: Contribution from cropland expansion and land management. Global and Planetary Change, 2013, 100, 85-98.	3.5	44
166	Climate extremes and ozone pollution: a growing threat to chinaâ€™s food security. Ecosystem Health and Sustainability, 2016, 2, .	3.1	44
167	Methane emissions from global wetlands: An assessment of the uncertainty associated with various wetland extent data sets. Atmospheric Environment, 2017, 165, 310-321.	4.1	44
168	Longâ€Term Trajectory of Nitrogen Loading and Delivery From Mississippi River Basin to the Gulf of Mexico. Global Biogeochemical Cycles, 2020, 34, e2019GB006475.	4.9	44
169	Longâ€term terrestrial carbon dynamics in the Midwestern United States during 1850â€“2015: Roles of land use and cover change and agricultural management. Global Change Biology, 2018, 24, 2673-2690.	9.5	43
170	State of the science in reconciling topâ€down and bottomâ€up approaches for terrestrial CO₂ budget. Global Change Biology, 2020, 26, 1068-1084.	9.5	43
171	Satellite estimation of coastal pCO2 and air-sea flux of carbon dioxide in the northern Gulf of Mexico. Remote Sensing of Environment, 2018, 207, 71-83.	11.0	42
172	Contemporary and projected biogenic fluxes of methane and nitrous oxide in North American terrestrial ecosystems. Frontiers in Ecology and the Environment, 2012, 10, 528-536.	4.0	41
173	Photosynthetic productivity and its efficiencies in ISIMIP2a biome models: benchmarking for impact assessment studies. Environmental Research Letters, 2017, 12, 085001.	5.2	41
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