

# Peter E Thornton

## List of Publications by Year in descending order

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156  
papers

26,249  
citations

15001

68  
h-index

9346

148  
g-index

193  
all docs

193  
docs citations

193  
times ranked

28150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling physiological costs to assess impacts of climate change on amphibians in Yellowstone National Park, U.S.A. <i>Ecological Indicators</i> , 2022, 135, 108575.	2.6	7
2	Soil-related developments of the Biome-BGCMuSo v6.2 terrestrial ecosystem model. <i>Geoscientific Model Development</i> , 2022, 15, 2157-2181.	1.3	8
3	Increasing Functional Diversity in a Global Land Surface Model Illustrates Uncertainties Related to Parameter Simplification. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	6
4	Developing an ELM Ecosystem Dynamics Model on GPU with OpenACC. <i>Lecture Notes in Computer Science</i> , 2022, , 291-303.	1.0	3
5	Moisture availability mediates the relationship between terrestrial gross primary production and solar-induced chlorophyll fluorescence: Insights from global-scale variations. <i>Global Change Biology</i> , 2021, 27, 1144-1156.	4.2	57
6	Dynamics of Fungal and Bacterial Biomass Carbon in Natural Ecosystems: Site-Level Applications of the CLM-Microbe Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002283.	1.3	11
7	Extending a land-surface model with <i>Sphagnum</i> moss to simulate responses of a northern temperate bog to whole ecosystem warming and elevated CO <sub>2</sub> . <i>Biogeosciences</i> , 2021, 18, 467-486.	1.3	17
8	Integrating Arctic Plant Functional Types in a Land Surface Model Using Above- and Belowground Field Observations. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002396.	1.3	27
9	Considering coasts: Adapting terrestrial models to characterize coastal wetland ecosystems. <i>Ecological Modelling</i> , 2021, 450, 109561.	1.2	7
10	Seasonal changes in GPP/SIF ratios and their climatic determinants across the Northern Hemisphere. <i>Global Change Biology</i> , 2021, 27, 5186-5197.	4.2	34
11	Gridded daily weather data for North America with comprehensive uncertainty quantification. <i>Scientific Data</i> , 2021, 8, 190.	2.4	85
12	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2019JG005468.	1.3	11
13	An Integrative Model for Soil Biogeochemistry and Methane Processes. II: Warming and Elevated CO <sub>2</sub> Effects on Peatland CH <sub>4</sub> Emissions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005963.	1.3	16
14	Updated respiration routines alter spatio-temporal patterns of carbon cycling in a global land surface model. <i>Environmental Research Letters</i> , 2021, 16, 104015.	2.2	3
15	Hydrological feedbacks on peatland CH <sub>4</sub> emission under warming and elevated CO <sub>2</sub> : A modeling study. <i>Journal of Hydrology</i> , 2021, 603, 127137.	2.3	4
16	TRY plant trait database “ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
17	Modelling tree stem-water dynamics over an Amazonian rainforest. <i>Ecohydrology</i> , 2020, 13, e2180.	1.1	9
18	Seeing the Canopy for the Branches: Improved Within Canopy Scaling of Leaf Nitrogen. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002237.	1.3	2

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19	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystem Climate Responses to Historical Changes in Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001766.	1.3	65
20	Representing the function and sensitivity of coastal interfaces in Earth system models. <i>Nature Communications</i> , 2020, 11, 2458.	5.8	153
21	Quantifying the drivers and predictability of seasonal changes in African fire. <i>Nature Communications</i> , 2020, 11, 2893.	5.8	15
22	Urban warming advances spring phenology but reduces the response of phenology to temperature in the conterminous United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4228-4233.	3.3	109
23	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. <i>Geoscientific Model Development</i> , 2020, 13, 5425-5464.	1.3	408
24	Streamflow in the Columbia River Basin: Quantifying Changes Over the Period 1951â€“2008 and Determining the Drivers of Those Changes. <i>Water Resources Research</i> , 2019, 55, 6640-6652.	1.7	15
25	Alder Distribution and Expansion Across a Tundra Hillslope: Implications for Local N Cycling. <i>Frontiers in Plant Science</i> , 2019, 10, 1099.	1.7	37
26	The Effects of Phosphorus Cycle Dynamics on Carbon Sources and Sinks in the Amazon Region: A Modeling Study Using ELM v1. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3686-3698.	1.3	29
27	Characteristics of human-climate feedbacks differ at different radiative forcing levels. <i>Global and Planetary Change</i> , 2019, 180, 126-135.	1.6	10
28	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	1.3	404
29	Modeling anaerobic soil organic carbon decomposition in Arctic polygon tundra: insights into soil geochemical influences on carbon mineralization. <i>Biogeosciences</i> , 2019, 16, 663-680.	1.3	21
30	Mechanistic Modeling of Microtopographic Impacts on CO <sub>2</sub> and CH <sub>4</sub> Fluxes in an Alaskan Tundra Ecosystem Using the CLM-Microbe Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4288-4304.	1.3	22
31	The sensitivity of the forest carbon budget shifts across processes along with stand development and climate change. <i>Ecological Applications</i> , 2019, 29, e01837.	1.8	39
32	Contribution of environmental forcings to US runoff changes for the period 1950â€“2010. <i>Environmental Research Letters</i> , 2018, 13, 054023.	2.2	9
33	The Impact of Parametric Uncertainties on Biogeochemistry in the E3SM Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 297-319.	1.3	80
34	Quantifying Human-Mediated Carbon Cycle Feedbacks. <i>Geophysical Research Letters</i> , 2018, 45, 11,370.	1.5	7
35	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. <i>Nature Climate Change</i> , 2017, 7, 496-500.	8.1	46
36	Global pattern and controls of soil microbial metabolic quotient. <i>Ecological Monographs</i> , 2017, 87, 429-441.	2.4	106

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37	WIP: Live Restructuring of Data Architecture. , 2017, , .		0
38	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	3.3	159
39	Informing climate models with rapid chamber measurements of forest carbon uptake. Global Change Biology, 2017, 23, 2130-2139.	4.2	9
40	Evaluating the Community Land Model (CLM4.5) at a coniferous forest site in northwestern United States using flux and carbon-isotope measurements. Biogeosciences, 2017, 14, 4315-4340.	1.3	54
41	Evaluating the Community Land Model in a pine stand with shading manipulations and $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ labeling. Biogeosciences, 2016, 13, 641-657.	1.3	18
42	An observational constraint on stomatal function in forests: evaluating coupled carbon and water vapor exchange with carbon isotopes in the Community Land Model (CLM4.5). Biogeosciences, 2016, 13, 5183-5204.	1.3	57
43	Biogeochemical modeling of $\text{CO}_2$ and $\text{CH}_4$ production in anoxic Arctic soil microcosms. Biogeosciences, 2016, 13, 5021-5041.	1.3	27
44	Addressing numerical challenges in introducing a reactive transport code into a land surface model: a biogeochemical modeling proof-of-concept with CLM-PFLOTRAN 1.0. Geoscientific Model Development, 2016, 9, 927-946.	1.3	14
45	Modeling the spatiotemporal variability in subsurface thermal regimes across a low-relief polygonal tundra landscape. Cryosphere, 2016, 10, 2241-2274.	1.5	29
46	Reviews and syntheses: Four decades of modeling methane cycling in terrestrial ecosystems. Biogeosciences, 2016, 13, 3735-3755.	1.3	102
47	Terrestrial ecosystem process model Biome-BGCMuSo v4.0: summary of improvements and new modeling possibilities. Geoscientific Model Development, 2016, 9, 4405-4437.	1.3	50
48	Evaluation of the Community Land Model simulated carbon and water fluxes against observations over ChinaFLUX sites. Agricultural and Forest Meteorology, 2016, 226-227, 174-185.	1.9	26
49	Phosphorus feedbacks constraining tropical ecosystem responses to changes in atmospheric $\text{CO}_2$ and climate. Geophysical Research Letters, 2016, 43, 7205-7214.	1.5	32
50	Human-induced greening of the northern extratropical land surface. Nature Climate Change, 2016, 6, 959-963.	8.1	145
51	On the development of a coupled regional climate-vegetation model RCM-CLM-CN-DV and its validation in Tropical Africa. Climate Dynamics, 2016, 46, 515-539.	1.7	53
52	Interdisciplinary research in climate and energy sciences. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 49-56.	1.9	18
53	Incorporating phosphorus cycling into global modeling efforts: a worthwhile, tractable endeavor. New Phytologist, 2015, 208, 324-329.	3.5	163
54	Convergence of microbial assimilations of soil carbon, nitrogen, phosphorus and sulfur in terrestrial ecosystems. Scientific Reports, 2015, 5, 17445.	1.6	35

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55	A microbial functional group-based module for simulating methane production and consumption: Application to an incubated permafrost soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1315-1333.	1.3	56
56	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015, 10, 094008.	2.2	119
57	Representing northern peatland microtopography and hydrology within the Community Land Model. <i>Biogeosciences</i> , 2015, 12, 6463-6477.	1.3	66
58	The integrated Earth system model version 1: formulation and functionality. <i>Geoscientific Model Development</i> , 2015, 8, 2203-2219.	1.3	44
59	Global sensitivity analysis, probabilistic calibration, and predictive assessment for the data assimilation linked ecosystem carbon model. <i>Geoscientific Model Development</i> , 2015, 8, 1899-1918.	1.3	25
60	Using ecosystem experiments to improve vegetation models. <i>Nature Climate Change</i> , 2015, 5, 528-534.	8.1	249
61	A Scientific Function Test Framework for Modular Environmental Model Development: Application to the Community Land Model. , 2015, , .		9
62	Preparing, storing, and distributing multi-dimensional scientific data. , 2015, , .		0
63	Leaf respiration ( <i>GlobResp</i> ) – global trait database supports Earth System Models. <i>New Phytologist</i> , 2015, 206, 483-485.	3.5	3
64	The role of phosphorus dynamics in tropical forests – a modeling study using CLM-CNP. <i>Biogeosciences</i> , 2014, 11, 1667-1681.	1.3	179
65	From land use to land cover: restoring the afforestation signal in a coupled integrated assessment – earth system model and the implications for CMIP5 RCP simulations. <i>Biogeosciences</i> , 2014, 11, 6435-6450.	1.3	49
66	DIMENSIONALITY REDUCTION FOR COMPLEX MODELS VIA BAYESIAN COMPRESSIVE SENSING. , 2014, 4, 63-93.		118
67	Web-based visual analytics for extreme scale climate science. , 2014, , .		6
68	Hydroclimatic Controls on the Means and Variability of Vegetation Phenology and Carbon Uptake. <i>Journal of Climate</i> , 2014, 27, 5632-5652.	1.2	19
69	On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. <i>Geoscientific Model Development</i> , 2014, 7, 2545-2555.	1.3	26
70	Where does the carbon go? A model – data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest free-air CO <sub>2</sub> enrichment sites. <i>New Phytologist</i> , 2014, 203, 883-899.	3.5	263
71	Evaluation of 11 terrestrial carbon – nitrogen cycle models against observations from two temperate forest free-air CO <sub>2</sub> enrichment studies. <i>New Phytologist</i> , 2014, 202, 803-822.	3.5	378
72	Substrate and environmental controls on microbial assimilation of soil organic carbon: a framework for Earth system models. <i>Ecology Letters</i> , 2014, 17, 547-555.	3.0	148

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73	A functional test platform for the Community Land Model. <i>Environmental Modelling and Software</i> , 2014, 55, 25-31.	1.9	21
74	Preindustrial-Control and Twentieth-Century Carbon Cycle Experiments with the Earth System Model CESM1(BGC). <i>Journal of Climate</i> , 2014, 27, 8981-9005.	1.2	156
75	Comprehensive ecosystem model data synthesis using multiple data sets at two temperate forest free air CO <sub>2</sub> enrichment experiments: Model performance at ambient CO <sub>2</sub> concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 937-964.	1.3	95
76	ParCAT: Parallel Climate Analysis Toolkit. <i>Procedia Computer Science</i> , 2013, 18, 2367-2375.	1.2	6
77	Big data visual analytics for exploratory earth system simulation analysis. <i>Computers and Geosciences</i> , 2013, 61, 71-82.	2.0	75
78	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. <i>Journal of Climate</i> , 2013, 26, 3657-3670.	1.2	59
79	A global analysis of soil microbial biomass carbon, nitrogen and phosphorus in terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2013, 22, 737-749.	2.7	762
80	Forest water use and water use efficiency at elevated CO <sub>2</sub> : a model data intercomparison at two contrasting temperate forest FACE sites. <i>Global Change Biology</i> , 2013, 19, 1759-1779.	4.2	314
81	Interactive Effects of Environmental Change and Management Strategies on Regional Forest Carbon Emissions. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13132-13140.	4.6	43
82	Spatiotemporal patterns of evapotranspiration in response to multiple environmental factors simulated by the Community Land Model. <i>Environmental Research Letters</i> , 2013, 8, 024012.	2.2	71
83	The distribution of soil phosphorus for global biogeochemical modeling. <i>Biogeosciences</i> , 2013, 10, 2525-2537.	1.3	181
84	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2013, 26, 4447-4475.	1.2	48
85	Evaluation and improvement of the Community Land Model (CLM4) in Oregon forests. <i>Biogeosciences</i> , 2013, 10, 453-470.	1.3	47
86	Global Latitudinal-Asymmetric Vegetation Growth Trends and Their Driving Mechanisms: 1982-2009. <i>Remote Sensing</i> , 2013, 5, 1484-1497.	1.8	117
87	Evaluation of the New CNDV Option of the Community Land Model: Effects of Dynamic Vegetation and Interactive Nitrogen on CLM4 Means and Variability. <i>Journal of Climate</i> , 2012, 25, 3702-3714.	1.2	55
88	Remote Sensing Evaluation of CLM4 GPP for the Period 2000-09*. <i>Journal of Climate</i> , 2012, 25, 5327-5342.	1.2	85
89	Simulating the Biogeochemical and Biogeophysical Impacts of Transient Land Cover Change and Wood Harvest in the Community Climate System Model (CCSM4) from 1850 to 2100. <i>Journal of Climate</i> , 2012, 25, 3071-3095.	1.2	255
90	Causes of spring vegetation growth trends in the northern mid-high latitudes from 1982 to 2004. <i>Environmental Research Letters</i> , 2012, 7, 014010.	2.2	53

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91	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8612-8617.	3.3	247
92	Timing and magnitude of C partitioning through a young loblolly pine ( <i>Pinus taeda</i> L.) stand using <sup>13</sup> C labeling and shade treatments. <i>Tree Physiology</i> , 2012, 32, 799-813.	1.4	38
93	Volcano impacts on climate and biogeochemistry in a coupled carbon-climate model. <i>Earth System Dynamics</i> , 2012, 3, 121-136.	2.7	8
94	Practical Application of Parallel Coordinates for Climate Model Analysis. <i>Procedia Computer Science</i> , 2012, 9, 877-886.	1.2	17
95	Sub-daily Statistical Downscaling of Meteorological Variables Using Neural Networks. <i>Procedia Computer Science</i> , 2012, 9, 887-896.	1.2	24
96	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	274
97	Interactive Crop Management in the Community Earth System Model (CESM1): Seasonal Influences on Land-Atmosphere Fluxes. <i>Journal of Climate</i> , 2012, 25, 4839-4859.	1.2	140
98	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012, 232, 144-157.	1.2	207
99	The impact of climate, CO <sub>2</sub> , nitrogen deposition and land use change on simulated contemporary global river flow. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	58
100	Simulating coupled carbon and nitrogen dynamics following mountain pine beetle outbreaks in the western United States. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
101	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, .	1.3	666
102	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	1.3	367
103	Decadal trends in net ecosystem production and net ecosystem carbon balance for a regional socioecological system. <i>Forest Ecology and Management</i> , 2011, 262, 1318-1325.	1.4	41
104	Desert dust and anthropogenic aerosol interactions in the Community Climate System Model coupled-carbon-climate model. <i>Biogeosciences</i> , 2011, 8, 387-414.	1.3	47
105	TRY – a global database of plant traits. <i>Global Change Biology</i> , 2011, 17, 2905-2935.	4.2	2,002
106	Harmonization of land-use scenarios for the period 1500-2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Climatic Change</i> , 2011, 109, 117-161.	1.7	1,080
107	Ecohydrologic impact of reduced stomatal conductance in forests exposed to elevated CO <sub>2</sub> . <i>Ecohydrology</i> , 2011, 4, 196-210.	1.1	96
108	Observed 20th century desert dust variability: impact on climate and biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10875-10893.	1.9	355

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109	Fire dynamics during the 20th century simulated by the Community Land Model. <i>Biogeosciences</i> , 2010, 7, 1877-1902.	1.3	194
110	Assessment of Reanalysis Daily Extreme Temperatures with China's Homogenized Historical Dataset during 1979-2001 Using Probability Density Functions. <i>Journal of Climate</i> , 2010, 23, 6605-6623.	1.2	48
111	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. <i>Biogeosciences</i> , 2009, 6, 2099-2120.	1.3	399
112	A hierarchical analysis of terrestrial ecosystem model Biome-BGC: Equilibrium analysis and model calibration. <i>Ecological Modelling</i> , 2009, 220, 2009-2023.	1.2	43
113	Systematic assessment of terrestrial biogeochemistry in coupled climate-carbon models. <i>Global Change Biology</i> , 2009, 15, 2462-2484.	4.2	324
114	Use of FLUXNET in the Community Land Model development. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	210
115	Improvements to the Community Land Model and their impact on the hydrological cycle. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	649
116	Remote sensing data assimilation for a prognostic phenology model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	160
117	An Improved Canopy Integration Scheme for a Land Surface Model with Prognostic Canopy Structure. <i>Journal of Climate</i> , 2007, 20, 3902-3923.	1.2	183
118	Results from the carbon-land model intercomparison project (C-LAMP) and availability of the data on the earth system grid (ESG). <i>Journal of Physics: Conference Series</i> , 2007, 78, 012026.	0.3	7
119	Influence of carbon-nitrogen cycle coupling on land model response to CO <sub>2</sub> fertilization and climate variability. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	624
120	The Partitioning of Evapotranspiration into Transpiration, Soil Evaporation, and Canopy Evaporation in a GCM: Impacts on Land-Atmosphere Interaction. <i>Journal of Hydrometeorology</i> , 2007, 8, 862-880.	0.7	399
121	Model Up-scaling in Landscape Research. <i>Landscape Series</i> , 2007, , 249-272.	0.1	16
122	DAYCENT National-Scale Simulations of Nitrous Oxide Emissions from Cropped Soils in the United States. <i>Journal of Environmental Quality</i> , 2006, 35, 1451-1460.	1.0	204
123	Terrestrial biogeochemistry in the community climate system model (CCSM). <i>Journal of Physics: Conference Series</i> , 2006, 46, 363-369.	0.3	1
124	A diagnostic carbon flux model to monitor the effects of disturbance and interannual variation in climate on regional NEP. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 476-490.	0.8	71
125	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. <i>Journal of Climate</i> , 2006, 19, 2302-2324.	1.2	320
126	Ecosystem model spin-up: Estimating steady state conditions in a coupled terrestrial carbon and nitrogen cycle model. <i>Ecological Modelling</i> , 2005, 189, 25-48.	1.2	312



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127	Reimplementation of the Biome-BGC model to simulate successional change. <i>Tree Physiology</i> , 2005, 25, 413-424.	1.4	69
128	BGC-model parameters for tree species growing in central European forests. <i>Forest Ecology and Management</i> , 2005, 211, 264-295.	1.4	88
129	Archiving numerical models of biogeochemical dynamics. <i>Eos</i> , 2005, 86, 431.	0.1	17
130	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	266
131	OAK FOREST CARBON AND WATER SIMULATIONS: MODEL INTERCOMPARISONS AND EVALUATIONS AGAINST INDEPENDENT DATA. <i>Ecological Monographs</i> , 2004, 74, 443-489.	2.4	225
132	VEMAP Phase 2 bioclimatic database. I. Gridded historical (20th century) climate for modeling ecosystem dynamics across the conterminous USA. <i>Climate Research</i> , 2004, 27, 151-170.	0.4	42
133	Analyzing the Ecosystem Carbon Dynamics of Four European Coniferous Forests Using a Biogeochemistry Model. <i>Ecosystems</i> , 2003, 6, 168-184.	1.6	101
134	Inter-annual variability of the atmospheric carbon dioxide concentrations as simulated with global terrestrial biosphere models and an atmospheric transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 530-546.	0.8	13
135	Changes in carbon storage and fluxes in a chronosequence of ponderosa pine. <i>Global Change Biology</i> , 2003, 9, 510-524.	4.2	333
136	Climatic and biophysical controls on conifer species distributions in mountain forests of Washington State, USA. <i>Journal of Biogeography</i> , 2003, 30, 1093-1108.	1.4	79
137	Validating daily climate interpolations over complex terrain in Austria. <i>Agricultural and Forest Meteorology</i> , 2003, 119, 87-107.	1.9	88
138	Inter-annual variability of the atmospheric carbon dioxide concentrations as simulated with global terrestrial biosphere models and an atmospheric transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 530-546.	0.8	3
139	Recent trends in hydrologic balance have enhanced the terrestrial carbon sink in the United States. <i>Geophysical Research Letters</i> , 2002, 29, 106-1-106-4.	1.5	139
140	Modeling and measuring the effects of disturbance history and climate on carbon and water budgets in evergreen needleleaf forests. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 185-222.	1.9	765
141	Satellite Evidence of Phenological Differences Between Urbanized and Rural Areas of the Eastern United States Deciduous Broadleaf Forest. <i>Ecosystems</i> , 2002, 5, 260-273.	1.6	220
142	Carbon storage and fluxes in ponderosa pine forests at different developmental stages. <i>Global Change Biology</i> , 2001, 7, 755-777.	4.2	356
143	Parameterization and Sensitivity Analysis of the BIOMEâ€“BGC Terrestrial Ecosystem Model: Net Primary Production Controls. <i>Earth Interactions</i> , 2000, 4, 1-85.	0.7	654
144	Simultaneous estimation of daily solar radiation and humidity from observed temperature and precipitation: an application over complex terrain in Austria. <i>Agricultural and Forest Meteorology</i> , 2000, 104, 255-271.	1.9	333

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145	Contribution of Increasing CO <sub>2</sub> and Climate to Carbon Storage by Ecosystems in the United States. Science, 2000, 287, 2004-2006.	6.0	526
146	Global Terrestrial Gross and Net Primary Productivity from the Earth Observing System. , 2000, , 44-57.		357
147	The impact of growing-season length variability on carbon assimilation and evapotranspiration over 88 years in the eastern US deciduous forest. International Journal of Biometeorology, 1999, 42, 139-145.	1.3	328
148	An improved algorithm for estimating incident daily solar radiation from measurements of temperature, humidity, and precipitation. Agricultural and Forest Meteorology, 1999, 93, 211-228.	1.9	637
149	ASSESSING SIMULATED ECOSYSTEM PROCESSES FOR CLIMATE VARIABILITY RESEARCH AT GLACIER NATIONAL PARK, USA. , 1998, 8, 805-823.		46
150	Simulating forest productivity and surface-atmosphere carbon exchange in the BOREAS study region. Tree Physiology, 1997, 17, 589-599.	1.4	163
151	A continental phenology model for monitoring vegetation responses to interannual climatic variability. Global Biogeochemical Cycles, 1997, 11, 217-234.	1.9	1,004
152	Generating surfaces of daily meteorological variables over large regions of complex terrain. Journal of Hydrology, 1997, 190, 214-251.	2.3	1,168
153	Analysis of transpiration results from the RICE and PILPS workshop. Global and Planetary Change, 1996, 13, 73-88.	1.6	71
154	Ecosystem sensitivity to land-surface models and leaf area index. Global and Planetary Change, 1996, 13, 89-98.	1.6	20
155	Mapping classes of carbon. Nature Sustainability, 0, , .	11.5	0
156	Upscaling Methane Flux From Plot Level to Eddy Covariance Tower Domains in Five Alaskan Tundra Ecosystems. Frontiers in Environmental Science, 0, 10, .	1.5	0