Peter E Thornton

List of Publications by Year
in descending order

156 papers	26,249 citations	13068 68 h-index	8138 148 g-index
193 all docs	193 docs citations	193 times ranked	24810 citing authors

#	Article	IF	Citations
1	TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	4.2	2,002
2	Generating surfaces of daily meteorological variables over large regions of complex terrain. Journal of Hydrology, 1997, 190, 214-251.	2.3	1,168
3	Harmonization of land-use scenarios for the period 1500â€“2100: 600Âyears of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. Climatic Change, 2011, 109, 117-161.	1.7	1,080
4	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
5	A continental phenology model for monitoring vegetation responses to interannual climatic variability. Global Biogeochemical Cycles, 1997, 11, 217-234.	1.9	1,004
6	Modeling and measuring the effects of disturbance history and climate on carbon and water budgets in evergreen needleleaf forests. Agricultural and Forest Meteorology, 2002, 113, 185-222.	1.9	765
7	A global analysis of soil microbial biomass carbon, nitrogen and phosphorus in terrestrial ecosystems. Global Ecology and Biogeography, 2013, 22, 737-749.	2.7	762
8	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, .	1.3	666
9	Parameterization and Sensitivity Analysis of the BIOMEâ€“BGC Terrestrial Ecosystem Model: Net Primary Production Controls. Earth Interactions, 2000, 4, 1-85.	0.7	654
10	Improvements to the Community Land Model and their impact on the hydrological cycle. Journal of Geophysical Research, 2008, 113, .	3.3	649
11	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
12	Influence of carbonâ€nitrogen cycle coupling on land model response to CO₂ fertilization and climate variability. Global Biogeochemical Cycles, 2007, 21, .	1.9	624
13	Contribution of Increasing CO2 and Climate to Carbon Storage by Ecosystems in the United States. Science, 2000, 287, 2004-2006.	6.0	526
14	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464.	1.3	408
15	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	1.3	404
16	The Partitioning of Evapotranspiration into Transpiration, Soil Evaporation, and Canopy Evaporation in a GCM: Impacts on Landâ€“Atmosphere Interaction. Journal of Hydrometeorology, 2007, 8, 862-880.	0.7	399
17	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. Biogeosciences, 2009, 6, 2099-2120.	1.3	399
18	Evaluation of 11 terrestrial carbonâ€“nitrogen cycle models against observations from two temperate <scp>F</scp>reeâ€<scp>A</scp>ir <scp>CO</scp>₂<scp> E</scp>nrichment studies. New Phytologist, 2014, 202, 803-822.	3.5	378

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19	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	1.3	367
20	Global Terrestrial Gross and Net Primary Productivity from the Earth Observing System. , 2000, , 44-57.		357
21	Carbon storage and fluxes in ponderosa pine forests at different developmental stages. Global Change Biology, 2001, 7, 755-777.	4.2	356
22	Observed 20th century desert dust variability: impact on climate and biogeochemistry. Atmospheric Chemistry and Physics, 2010, 10, 10875-10893.	1.9	355
23	Simultaneous estimation of daily solar radiation and humidity from observed temperature and precipitation: an application over complex terrain in Austria. Agricultural and Forest Meteorology, 2000, 104, 255-271.	1.9	333
24	Changes in carbon storage and fluxes in a chronosequence of ponderosa pine. Global Change Biology, 2003, 9, 510-524.	4.2	333
25	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
26	Systematic assessment of terrestrial biogeochemistry in coupled climateâ€“carbon models. Global Change Biology, 2009, 15, 2462-2484.	4.2	324
27	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. Journal of Climate, 2006, 19, 2302-2324.	1.2	320
28	Forest water use and water use efficiency at elevated <scp><scp>CO₂</scp></scp>: a modelâ€data intercomparison at two contrasting temperate forest <scp>FACE</scp> sites. Global Change Biology, 2013, 19, 1759-1779.	4.2	314
29	Ecosystem model spin-up: Estimating steady state conditions in a coupled terrestrial carbon and nitrogen cycle model. Ecological Modelling, 2005, 189, 25-48.	1.2	312
30	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
31	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 2005, 110, .	3.3	266
32	Where does the carbon go? A modelâ€“data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest freeâ€air CO₂ enrichment sites. New Phytologist, 2014, 203, 883-899.	3.5	263
33	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. Journal of Climate, 2012, 25, 3071-3095.	1.2	255
34	Using ecosystem experiments to improve vegetation models. Nature Climate Change, 2015, 5, 528-534.	8.1	249
35	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8612-8617.	3.3	247
36	OAK FOREST CARBON AND WATER SIMULATIONS: MODEL INTERCOMPARISONS AND EVALUATIONS AGAINST INDEPENDENT DATA. Ecological Monographs, 2004, 74, 443-489.	2.4	225

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37	Satellite Evidence of Phenological Differences Between Urbanized and Rural Areas of the Eastern United States Deciduous Broadleaf Forest. Ecosystems, 2002, 5, 260-273.	1.6	220
38	Use of FLUXNET in the Community Land Model development. Journal of Geophysical Research, 2008, 113, .	3.3	210
39	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. Ecological Modelling, 2012, 232, 144-157.	1.2	207
40	DAYCENT National-Scale Simulations of Nitrous Oxide Emissions from Cropped Soils in the United States. Journal of Environmental Quality, 2006, 35, 1451-1460.	1.0	204
41	Fire dynamics during the 20th century simulated by the Community Land Model. Biogeosciences, 2010, 7, 1877-1902.	1.3	194
42	An Improved Canopy Integration Scheme for a Land Surface Model with Prognostic Canopy Structure. Journal of Climate, 2007, 20, 3902-3923.	1.2	183
43	The distribution of soil phosphorus for global biogeochemical modeling. Biogeosciences, 2013, 10, 2525-2537.	1.3	181
44	The role of phosphorus dynamics in tropical forests â€“ a modeling study using CLM-CNP. Biogeosciences, 2014, 11, 1667-1681.	1.3	179
45	Simulating forest productivity and surface-atmosphere carbon exchange in the BOREAS study region. Tree Physiology, 1997, 17, 589-599.	1.4	163
46	Incorporating phosphorus cycling into global modeling efforts: a worthwhile, tractable endeavor. New Phytologist, 2015, 208, 324-329.	3.5	163
47	Remote sensing data assimilation for a prognostic phenology model. Journal of Geophysical Research, 2008, 113, .	3.3	160
48	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
49	Preindustrial-Control and Twentieth-Century Carbon Cycle Experiments with the Earth System Model CESM1(BGC). Journal of Climate, 2014, 27, 8981-9005.	1.2	156
50	Representing the function and sensitivity of coastal interfaces in Earth system models. Nature Communications, 2020, 11, 2458.	5.8	153
51	Substrate and environmental controls on microbial assimilation of soil organic carbon: a framework for Earth system models. Ecology Letters, 2014, 17, 547-555.	3.0	148
52	Human-induced greening of the northern extratropical land surface. Nature Climate Change, 2016, 6, 959-963.	8.1	145
53	Interactive Crop Management in the Community Earth System Model (CESM1): Seasonal Influences on Landâ€“Atmosphere Fluxes. Journal of Climate, 2012, 25, 4839-4859.	1.2	140
54	Recent trends in hydrologic balance have enhanced the terrestrial carbon sink in the United States. Geophysical Research Letters, 2002, 29, 106-1-106-4.	1.5	139

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55	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. Environmental Research Letters, 2015, 10, 094008.	2.2	119
56	DIMENSIONALITY REDUCTION FOR COMPLEX MODELS VIA BAYESIAN COMPRESSIVE SENSING. , 2014, 4, 63-93.		118
57	Global Latitudinal-Asymmetric Vegetation Growth Trends and Their Driving Mechanisms: 1982â€“2009. Remote Sensing, 2013, 5, 1484-1497.	1.8	117
58	Urban warming advances spring phenology but reduces the response of phenology to temperature in the conterminous United States. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4228-4233.	3.3	109
59	Global pattern and controls of soil microbial metabolic quotient. Ecological Monographs, 2017, 87, 429-441.	2.4	106
60	Reviews and syntheses: Four decades of modeling methane cycling in terrestrial ecosystems. Biogeosciences, 2016, 13, 3735-3755.	1.3	102
61	Analyzing the Ecosystem Carbon Dynamics of Four European Coniferous Forests Using a Biogeochemistry Model. Ecosystems, 2003, 6, 168-184.	1.6	101
62	Ecohydrologic impact of reduced stomatal conductance in forests exposed to elevated CO₂. Ecohydrology, 2011, 4, 196-210.	1.1	96
63	Comprehensive ecosystem modelâ€data synthesis using multiple data sets at two temperate forest freeâ€air CO₂ enrichment experiments: Model performance at ambient CO₂ concentration. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 937-964.	1.3	95
64	Validating daily climate interpolations over complex terrain in Austria. Agricultural and Forest Meteorology, 2003, 119, 87-107.	1.9	88
65	BGC-model parameters for tree species growing in central European forests. Forest Ecology and Management, 2005, 211, 264-295.	1.4	88
66	Remote Sensing Evaluation of CLM4 GPP for the Period 2000â€“09*. Journal of Climate, 2012, 25, 5327-5342.	1.2	85
67	Gridded daily weather data for North America with comprehensive uncertainty quantification. Scientific Data, 2021, 8, 190.	2.4	85
68	The Impact of Parametric Uncertainties on Biogeochemistry in the E3SM Land Model. Journal of Advances in Modeling Earth Systems, 2018, 10, 297-319.	1.3	80
69	Climatic and biophysical controls on conifer species distributions in mountain forests of Washington State, USA. Journal of Biogeography, 2003, 30, 1093-1108.	1.4	79
70	Big data visual analytics for exploratory earth system simulation analysis. Computers and Geosciences, 2013, 61, 71-82.	2.0	75
71	Simulating coupled carbon and nitrogen dynamics following mountain pine beetle outbreaks in the western United States. Journal of Geophysical Research, 2011, 116, .	3.3	73
72	Analysis of transpiration results from the RICE and PILPS workshop. Global and Planetary Change, 1996, 13, 73-88.	1.6	71

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73	A diagnostic carbon flux model to monitor the effects of disturbance and interannual variation in climate on regional NEP. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 476-490.	0.8	71
74	Spatiotemporal patterns of evapotranspiration in response to multiple environmental factors simulated by the Community Land Model. Environmental Research Letters, 2013, 8, 024012.	2.2	71
75	Reimplementation of the Biome-BGC model to simulate successional change. Tree Physiology, 2005, 25, 413-424.	1.4	69
76	Representing northern peatland microtopography and hydrology within the Community Land Model. Biogeosciences, 2015, 12, 6463-6477.	1.3	66
77	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	1.3	65
78	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. Journal of Climate, 2013, 26, 3657-3670.	1.2	59
79	The impact of climate, CO₂, nitrogen deposition and land use change on simulated contemporary global river flow. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	58
80	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
81	Moisture availability mediates the relationship between terrestrial gross primary production and solarâ€induced chlorophyll fluorescence: Insights from globalâ€scale variations. Global Change Biology, 2021, 27, 1144-1156.	4.2	57
82	A microbial functional groupâ€based module for simulating methane production and consumption: Application to an incubated permafrost soil. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1315-1333.	1.3	56
83	Evaluation of the New CNDV Option of the Community Land Model: Effects of Dynamic Vegetation and Interactive Nitrogen on CLM4 Means and Variability. Journal of Climate, 2012, 25, 3702-3714.	1.2	55
84	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
85	Causes of spring vegetation growth trends in the northern midâ€“high latitudes from 1982 to 2004. Environmental Research Letters, 2012, 7, 014010.	2.2	53
86	On the development of a coupled regional climateâ€“vegetation model RCMâ€“CLMâ€“CNâ€“DV and its validation in Tropical Africa. Climate Dynamics, 2016, 46, 515-539.	1.7	53
87	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
88	From land use to land cover: restoring the afforestation signal in a coupled integrated assessmentâ€“earth system model and the implications for CMIP5 RCP simulations. Biogeosciences, 2014, 11, 6435-6450.	1.3	49
89	Assessment of Reanalysis Daily Extreme Temperatures with Chinaâ€™s Homogenized Historical Dataset during 1979â€“2001 Using Probability Density Functions. Journal of Climate, 2010, 23, 6605-6623.	1.2	48
90	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. Journal of Climate, 2013, 26, 4447-4475.	1.2	48

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91	Desert dust and anthropogenic aerosol interactions in the Community Climate System Model coupled-carbon-climate model. Biogeosciences, 2011, 8, 387-414.	1.3	47
92	Evaluation and improvement of the Community Land Model (CLM4) in Oregon forests. Biogeosciences, 2013, 10, 453-470.	1.3	47
93	ASSESSING SIMULATED ECOSYSTEM PROCESSES FOR CLIMATE VARIABILITY RESEARCH AT GLACIER NATIONAL PARK, USA. , 1998, 8, 805-823.		46
94	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. Nature Climate Change, 2017, 7, 496-500.	8.1	46
95	The integrated Earth system model version 1: formulation and functionality. Geoscientific Model Development, 2015, 8, 2203-2219.	1.3	44
96	A hierarchical analysis of terrestrial ecosystem model Biome-BGC: Equilibrium analysis and model calibration. Ecological Modelling, 2009, 220, 2009-2023.	1.2	43
97	Interactive Effects of Environmental Change and Management Strategies on Regional Forest Carbon Emissions. Environmental Science & Technology, 2013, 47, 13132-13140.	4.6	43
98	VEMAP Phase 2 bioclimatic database. I. Gridded historical (20th century) climate for modeling ecosystem dynamics across the conterminous USA. Climate Research, 2004, 27, 151-170.	0.4	42
99	Decadal trends in net ecosystem production and net ecosystem carbon balance for a regional socioecological system. Forest Ecology and Management, 2011, 262, 1318-1325.	1.4	41
100	The sensitivity of the forest carbon budget shifts across processes along with stand development and climate change. Ecological Applications, 2019, 29, e01837.	1.8	39
101	Timing and magnitude of C partitioning through a young loblolly pine (Pinus taeda L.) stand using 13C labeling and shade treatments. Tree Physiology, 2012, 32, 799-813.	1.4	38
102	Alder Distribution and Expansion Across a Tundra Hillslope: Implications for Local N Cycling. Frontiers in Plant Science, 2019, 10, 1099.	1.7	37
103	Convergence of microbial assimilations of soil carbon, nitrogen, phosphorus and sulfur in terrestrial ecosystems. Scientific Reports, 2015, 5, 17445.	1.6	35
104	Seasonal changes in GPP/SIF ratios and their climatic determinants across the Northern Hemisphere. Global Change Biology, 2021, 27, 5186-5197.	4.2	34
105	Phosphorus feedbacks constraining tropical ecosystem responses to changes in atmospheric CO₂ and climate. Geophysical Research Letters, 2016, 43, 7205-7214.	1.5	32
106	Modeling the spatiotemporal variability in subsurface thermal regimes across a low-relief polygonal tundra landscape. Cryosphere, 2016, 10, 2241-2274.	1.5	29
107	The Effects of Phosphorus Cycle Dynamics on Carbon Sources and Sinks in the Amazon Region: A Modeling Study Using ELM v1. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3686-3698.	1.3	29
108	Biogeochemical modeling of CO₂ and CH₄ production in anoxic Arctic soil microcosms. Biogeosciences, 2016, 13, 5021-5041.	1.3	27

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109	Integrating Arctic Plant Functional Types in a Land Surface Model Using Aboveâ€•and Belowground Field Observations. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002396.	1.3	27
110	On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. Geoscientific Model Development, 2014, 7, 2545-2555.	1.3	26
111	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
112	Global sensitivity analysis, probabilistic calibration, and predictive assessment for the data assimilation linked ecosystem carbon model. Geoscientific Model Development, 2015, 8, 1899-1918.	1.3	25
113	Sub-daily Statistical Downscaling of Meteorological Variables Using Neural Networks. Procedia Computer Science, 2012, 9, 887-896.	1.2	24
114	Mechanistic Modeling of Microtopographic Impacts on CO₂ and CH₄ Fluxes in an Alaskan Tundra Ecosystem Using the CLMâ€Microbe Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4288-4304.	1.3	22
115	A functional test platform for the Community Land Model. Environmental Modelling and Software, 2014, 55, 25-31.	1.9	21
116	Modeling anaerobic soil organic carbon decomposition in Arctic polygon tundra: insights into soil geochemical influences on carbon mineralization. Biogeosciences, 2019, 16, 663-680.	1.3	21
117	Ecosystem sensitivity to land-surface models and leaf area index. Global and Planetary Change, 1996, 13, 89-98.	1.6	20
118	Hydroclimatic Controls on the Means and Variability of Vegetation Phenology and Carbon Uptake. Journal of Climate, 2014, 27, 5632-5652.	1.2	19
119	Evaluating the Community Land Model in a pine stand with shading manipulations and ¹³CO₂ labeling. Biogeosciences, 2016, 13, 641-657.	1.3	18
120	Interdisciplinary research in climate and energy sciences. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 49-56.	1.9	18
121	Archiving numerical models of biogeochemical dynamics. Eos, 2005, 86, 431.	0.1	17
122	Practical Application of Parallel Coordinates for Climate Model Analysis. Procedia Computer Science, 2012, 9, 877-886.	1.2	17
123	Extending a land-surface model with <i>Sphagnum</i> moss to simulate responses of a northern temperate bog to whole ecosystem warming and elevated CO₂. Biogeosciences, 2021, 18, 467-486.	1.3	17
124	An Integrative Model for Soil Biogeochemistry and Methane Processes. II: Warming and Elevated CO₂ Effects on Peatland CH₄ Emissions. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005963.	1.3	16
125	Model Up-scaling in Landscape Research. Landscape Series, 2007, , 249-272.	0.1	16
126	Streamflow in the Columbia River Basin: Quantifying Changes Over the Period 1951â€2008 and Determining the Drivers of Those Changes. Water Resources Research, 2019, 55, 6640-6652.	1.7	15

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127	Quantifying the drivers and predictability of seasonal changes in African fire. Nature Communications, 2020, 11, 2893.	5.8	15
128	Addressing numerical challenges in introducing a reactive transport code into a land surface model: a biogeochemical modeling proof-of-concept with CLMâ€“PFLOTRAN 1.0. Geoscientific Model Development, 2016, 9, 927-946.	1.3	14
129	Inter-annual variability of the atmospheric carbon dioxide concentrations as simulated with global terrestrial biosphere models and an atmospheric transport model. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 530-546.	0.8	13
130	Dynamics of Fungal and Bacterial Biomass Carbon in Natural Ecosystems: Siteâ€Level Applications of the CLMâ€Microbe Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002283.	1.3	11
131	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2019JG005468.	1.3	11
132	Characteristics of human-climate feedbacks differ at different radiative forcing levels. Global and Planetary Change, 2019, 180, 126-135.	1.6	10
133	A Scientific Function Test Framework for Modular Environmental Model Development: Application to the Community Land Model. , 2015, , .		9
134	Informing climate models with rapid chamber measurements of forest carbon uptake. Global Change Biology, 2017, 23, 2130-2139.	4.2	9
135	Contribution of environmental forcings to US runoff changes for the period 1950â€“2010. Environmental Research Letters, 2018, 13, 054023.	2.2	9
136	Modelling tree stemâ€water dynamics over an Amazonian rainforest. Ecohydrology, 2020, 13, e2180.	1.1	9
137	Volcano impacts on climate and biogeochemistry in a coupled carbonâ€“climate model. Earth System Dynamics, 2012, 3, 121-136.	2.7	8
138	Soil-related developments of the Biome-BGCMuSo v6.2 terrestrial ecosystem model. Geoscientific Model Development, 2022, 15, 2157-2181.	1.3	8
139	Results from the carbon-land model intercomparison project (C-LAMP) and availability of the data on the earth system grid (ESG). Journal of Physics: Conference Series, 2007, 78, 012026.	0.3	7
140	Quantifying Humanâ€Mediated Carbon Cycle Feedbacks. Geophysical Research Letters, 2018, 45, 11,370.	1.5	7
141	Considering coasts: Adapting terrestrial models to characterize coastal wetland ecosystems. Ecological Modelling, 2021, 450, 109561.	1.2	7
142	Modelling physiological costs to assess impacts of climate change on amphibians in Yellowstone National Park, U.S.A. Ecological Indicators, 2022, 135, 108575.	2.6	7
143	ParCAT: Parallel Climate Analysis Toolkit. Procedia Computer Science, 2013, 18, 2367-2375.	1.2	6
144	Web-based visual analytics for extreme scale climate science. , 2014, , .		6

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145	Increasing Functional Diversity in a Global Land Surface Model Illustrates Uncertainties Related to Parameter Simplification. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	6
146	Hydrological feedbacks on peatland CH4 emission under warming and elevated CO2: A modeling study. Journal of Hydrology, 2021, 603, 127137.	2.3	4
147	Inter-annual variability of the atmospheric carbon dioxide concentrations as simulated with global terrestrial biosphere models and an atmospheric transport model. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 530-546.	0.8	3
148	Leaf respiration (GlobResp) â€“ global trait database supports Earth System Models. New Phytologist, 2015, 206, 483-485.	3.5	3
149	Updated respiration routines alter spatio-temporal patterns of carbon cycling in a global land surface model. Environmental Research Letters, 2021, 16, 104015.	2.2	3
150	Developing anÂELM Ecosystem Dynamics Model onÂGPU withÂOpenACC. Lecture Notes in Computer Science, 2022, , 291-303.	1.0	3
151	Seeing the Canopy for the Branches: Improved Within Canopy Scaling of Leaf Nitrogen. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002237.	1.3	2
152	Terrestrial biogeochemistry in the community climate system model (CCSM). Journal of Physics: Conference Series, 2006, 46, 363-369.	0.3	1
153	Preparing, storing, and distributing multi-dimensional scientific data. , 2015, , .		0
154	WIP: Live Restructuring of Data Architecture. , 2017, , .		0
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