

Peter J Lawrence

List of Publications by Year in descending order

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46
papers

8,025
citations

109137

35
h-index

223531

46
g-index

50
all docs

50
docs citations

50
times ranked

9831
citing authors

#	ARTICLE	IF	CITATIONS
1	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4245-4287.	1.3	692
2	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
3	Improvements to the Community Land Model and their impact on the hydrological cycle. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	649
4	Improving canopy processes in the Community Land Model version 4 (CLM4) using global flux fields empirically inferred from FLUXNET data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	522
5	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018, 24, 35-54.	4.2	478
6	Representing a new MODIS consistent land surface in the Community Land Model (CLM 3.0). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	460
7	Uncertainties in climate responses to past land cover change: First results from the LUCID intercomparison study. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	444
8	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
9	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
10	The Land Use Model Intercomparison Project (LUMIP) contribution to CMIP6: rationale and experimental design. <i>Geoscientific Model Development</i> , 2016, 9, 2973-2998.	1.3	343
11	Determining Robust Impacts of Land-Use-Induced Land Cover Changes on Surface Climate over North America and Eurasia: Results from the First Set of LUCID Experiments. <i>Journal of Climate</i> , 2012, 25, 3261-3281.	1.2	313
12	The CCSM4 Land Simulation, 1850â€“2005: Assessment of Surface Climate and New Capabilities. <i>Journal of Climate</i> , 2012, 25, 2240-2260.	1.2	276
13	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
14	Global gridded crop model evaluation: benchmarking, skills, deficiencies and implications. <i>Geoscientific Model Development</i> , 2017, 10, 1403-1422.	1.3	213
15	Last Millennium Climate and Its Variability in CCSM4. <i>Journal of Climate</i> , 2013, 26, 1085-1111.	1.2	198
16	Investigating the climate impacts of global land cover change in the community climate system model. <i>International Journal of Climatology</i> , 2010, 30, 2066-2087.	1.5	192
17	State-of-the-art global models underestimate impacts from climate extremes. <i>Nature Communications</i> , 2019, 10, 1005.	5.8	168
18	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020, 10, 356-362.	8.1	152

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19	Effects of irrigation and vegetation activity on early Indian summer monsoon variability. <i>International Journal of Climatology</i> , 2009, 29, 573-581.	1.5	117
20	Modeling the impact of historical land cover change on Australia's regional climate. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	78
21	Global satellite data highlights the diurnal asymmetry of the surface temperature response to deforestation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 903-917.	1.3	74
22	Spatial and temporal uncertainty of crop yield aggregations. <i>European Journal of Agronomy</i> , 2017, 88, 10-21.	1.9	63
23	Simulating the mid-Pliocene Warm Period with the CCSM4 model. <i>Geoscientific Model Development</i> , 2013, 6, 549-561.	1.3	62
24	Societal decisions about climate mitigation will have dramatic impacts on eutrophication in the 21st century. <i>Nature Communications</i> , 2019, 10, 939.	5.8	61
25	Assessing the use of subgrid land model output to study impacts of land cover change. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6133-6147.	1.2	57
26	The Global Gridded Crop Model Intercomparison phase 1 simulation dataset. <i>Scientific Data</i> , 2019, 6, 50.	2.4	57
27	Global climate response to idealized deforestation in CMIP6 models. <i>Biogeosciences</i> , 2020, 17, 5615-5638.	1.3	55
28	Environmental drivers of drought deciduous phenology in the Community Land Model. <i>Biogeosciences</i> , 2015, 12, 5061-5074.	1.3	53
29	Simulating Agriculture in the Community Land Model Version 5. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005529.	1.3	53
30	Interactions between land use change and carbon cycle feedbacks. <i>Global Biogeochemical Cycles</i> , 2017, 31, 96-113.	1.9	46
31	Biophysics and vegetation cover change: a process-based evaluation framework for confronting land surface models with satellite observations. <i>Earth System Science Data</i> , 2018, 10, 1265-1279.	3.7	46
32	Land use change exacerbates tropical South American drought by sea surface temperature variability. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	44
33	Impact of land cover characterization on regional climate modeling over West Africa. <i>Climate Dynamics</i> , 2016, 46, 637-650.	1.7	43
34	Parameterization-induced uncertainties and impacts of crop management harmonization in a global gridded crop model ensemble. <i>PLoS ONE</i> , 2019, 14, e0221862.	1.1	42
35	Global patterns of crop yield stability under additional nutrient and water inputs. <i>PLoS ONE</i> , 2018, 13, e0198748.	1.1	40
36	Avoided economic impacts of climate change on agriculture: integrating a land surface model (CLM) with a global economic model (iPETS). <i>Climatic Change</i> , 2018, 146, 517-531.	1.7	36

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37	Climate Impacts of Making Evapotranspiration in the Community Land Model (CLM3) Consistent with the Simple Biosphere Model (SiB). <i>Journal of Hydrometeorology</i> , 2009, 10, 374-394.	0.7	32
38	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr. <i>Earth System Dynamics</i> , 2013, 4, 333-345.	2.7	32
39	Evaluating the Interplay Between Biophysical Processes and Leaf Area Changes in Land Surface Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1102-1126.	1.3	22
40	Attributing the Carbon Cycle Impacts of CMIP5 Historical and Future Land Use and Land Cover Change in the Community Earth System Model (CESM1). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1732-1755.	1.3	20
41	Strong regional influence of climatic forcing datasets on global crop model ensembles. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108313.	1.9	17
42	A Comparison of the CMIP6 midHolocene and 127k Simulations in CESM2. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003957.	1.3	14
43	Land Use and Land Cover Change Strongly Modulates Land-Atmosphere Coupling and Warm Season Precipitation Over the Central United States in CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001925.	1.3	11
44	Worldwide Maize and Soybean Yield Response to Environmental and Management Factors Over the 20th and 21st Centuries. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006304.	1.3	9
45	Exposure to cold temperature affects the spring phenology of Alaskan deciduous vegetation types. <i>Environmental Research Letters</i> , 2020, 15, 025006.	2.2	6
46	A Comparison of Land Surface Phenology in the Northern Hemisphere Derived from Satellite Remote Sensing and the Community Land Model. <i>Journal of Hydrometeorology</i> , 2022, 23, 859-873.	0.7	5