

Sebastian D Sippel

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,273
citations

218381

26
h-index

276539

41
g-index

51
all docs

51
docs citations

51
times ranked

3476
citing authors

#	ARTICLE	IF	CITATIONS
1	Past warming trend constrains future warming in CMIP6 models. <i>Science Advances</i> , 2020, 6, eaaz9549.	4.7	327
2	Increasing probability of record-shattering climate extremes. <i>Nature Climate Change</i> , 2021, 11, 689-695.	8.1	224
3	Climate change now detectable from any single day of weather at global scale. <i>Nature Climate Change</i> , 2020, 10, 35-41.	8.1	154
4	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018, 15, 1293-1318.	1.3	137
5	Drought, Heat, and the Carbon Cycle: a Review. <i>Current Climate Change Reports</i> , 2018, 4, 266-286.	2.8	132
6	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. <i>Nature Ecology and Evolution</i> , 2022, 6, 36-50.	3.4	89
7	Half a degree and rapid socioeconomic development matter for heatwave risk. <i>Nature Communications</i> , 2019, 10, 136.	5.8	85
8	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	2.7	75
9	Ecosystem impacts of climate extremes crucially depend on the timing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5768-5770.	3.3	73
10	Quantifying changes in climate variability and extremes: Pitfalls and their overcoming. <i>Geophysical Research Letters</i> , 2015, 42, 9990-9998.	1.5	64
11	Beyond climatological extremes - assessing how the odds of hydrometeorological extreme events in South-East Europe change in a warming climate. <i>Climatic Change</i> , 2014, 125, 381-398.	1.7	57
12	Contrasting biosphere responses to hydrometeorological extremes: revisiting the 2010 western Russian heatwave. <i>Biogeosciences</i> , 2018, 15, 6067-6085.	1.3	57
13	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , 2018, 15, 3421-3437.	1.3	55
14	Refining multi-model projections of temperature extremes by evaluation against land-atmosphere coupling diagnostics. <i>Earth System Dynamics</i> , 2017, 8, 387-403.	2.7	53
15	An integrated approach to quantifying uncertainties in the remaining carbon budget. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	52
16	Do water-saving ground cover rice production systems increase grain yields at regional scales?. <i>Field Crops Research</i> , 2013, 150, 19-28.	2.3	50
17	Uncovering the Forced Climate Response from a Single Ensemble Member Using Statistical Learning. <i>Journal of Climate</i> , 2019, 32, 5677-5699.	1.2	45
18	Stakeholder Perspectives on the Attribution of Extreme Weather Events: An Explorative Enquiry. <i>Weather, Climate, and Society</i> , 2015, 7, 224-237.	0.5	35

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19	Combining large model ensembles with extreme value statistics to improve attribution statements of rare events. <i>Weather and Climate Extremes</i> , 2015, 9, 25-35.	1.6	35
20	Detecting impacts of extreme events with ecological in-situ monitoring networks. <i>Biogeosciences</i> , 2017, 14, 4255-4277.	1.3	35
21	Large-scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2053-2071.	1.3	35
22	Nitrogen dynamics at undisturbed and burned Mediterranean shrublands of Salento Peninsula, Southern Italy. <i>Plant and Soil</i> , 2011, 343, 5-15.	1.8	34
23	The Role of Anthropogenic Warming in 2015 Central European Heat Waves. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, S51-S56.	1.7	34
24	Extreme heat-related mortality avoided under Paris Agreement goals. <i>Nature Climate Change</i> , 2018, 8, 551-553.	8.1	33
25	Vegetation modulates the impact of climate extremes on gross primary production. <i>Biogeosciences</i> , 2021, 18, 39-53.	1.3	33
26	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , 2017, 12, 075006.	2.2	32
27	Multivariate anomaly detection for Earth observations: a comparison of algorithms and feature extraction techniques. <i>Earth System Dynamics</i> , 2017, 8, 677-696.	2.7	27
28	Ground cover rice production systems increase soil carbon and nitrogen stocks at regional scale. <i>Biogeosciences</i> , 2015, 12, 4831-4840.	1.3	22
29	Have precipitation extremes and annual totals been increasing in the world's dry regions over the last 60 years?. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 441-458.	1.9	22
30	Diagnosing the Dynamics of Observed and Simulated Ecosystem Gross Primary Productivity with Time Causal Information Theory Quantifiers. <i>PLoS ONE</i> , 2016, 11, e0164960.	1.1	20
31	Local and Nonlocal Land Surface Influence in European Heatwave Initial Condition Ensembles. <i>Geophysical Research Letters</i> , 2019, 46, 14082-14092.	1.5	17
32	Bias correction of climate model output for impact models. , 2020, , 77-104.		17
33	Late 1980s abrupt cold season temperature change in Europe consistent with circulation variability and long-term warming. <i>Environmental Research Letters</i> , 2020, 15, 094056.	2.2	15
34	From Hazard to Risk. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1689-1693.	1.7	14
35	Synoptic-scale controls of fog and low-cloud variability in the Namib Desert. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3415-3438.	1.9	14
36	Nonlinear dynamics of river runoff elucidated by horizontal visibility graphs. <i>Chaos</i> , 2018, 28, 075520.	1.0	11

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37	Robust detection of forced warming in the presence of potentially large climate variability. <i>Science Advances</i> , 2021, 7, eabh4429.	4.7	11
38	Reverse engineering model structures for soil and ecosystem respiration: the potential of gene expression programming. <i>Geoscientific Model Development</i> , 2017, 10, 3519-3545.	1.3	7
39	Warm Winter, Wet Spring, and an Extreme Response in Ecosystem Functioning on the Iberian Peninsula. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S80-S85.	1.7	7
40	Climate extremes and their implications for impact and risk assessment: A short introduction. , 2020, , 1-9.		7
41	Concurrent and lagged effects of spring greening on seasonal carbon gain and water loss across the Northern Hemisphere. <i>International Journal of Biometeorology</i> , 2020, 64, 1343-1354.	1.3	6
42	Physics-aware nonparametric regression models for Earth data analysis. <i>Environmental Research Letters</i> , 2022, 17, 054034.	2.2	6
43	Latent Linear Adjustment Autoencoder v1.0: a novel method for estimating and emulating dynamic precipitation at high resolution. <i>Geoscientific Model Development</i> , 2021, 14, 4977-4999.	1.3	4
44	Outlook: Challenges for societal resilience under climate extremes. , 2020, , 341-353.		2
45	Towards dynamical adjustment of the full temperature distribution. , 2020, , .		1