

# 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	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
2	Physics-aware nonparametric regression models for Earth data analysis. <i>Environmental Research Letters</i> , 2022, 17, 054034.	2.2	6
3	Increasing probability of record-shattering climate extremes. <i>Nature Climate Change</i> , 2021, 11, 689-695.	8.1	224
4	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
5	An integrated approach to quantifying uncertainties in the remaining carbon budget. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	52
6	Vegetation modulates the impact of climate extremes on gross primary production. <i>Biogeosciences</i> , 2021, 18, 39-53.	1.3	33
7	Robust detection of forced warming in the presence of potentially large climate variability. <i>Science Advances</i> , 2021, 7, eabh4429.	4.7	11
8	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
9	Bias correction of climate model output for impact models. , 2020, , 77-104.		17
10	Outlook: Challenges for societal resilience under climate extremes. , 2020, , 341-353.		2
11	Climate extremes and their implications for impact and risk assessment: A short introduction. , 2020, , 1-9.		7
12	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
13	Past warming trend constrains future warming in CMIP6 models. <i>Science Advances</i> , 2020, 6, eaaz9549.	4.7	327
14	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
15	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
16	Towards dynamical adjustment of the full temperature distribution. , 2020, , .		1
17	Half a degree and rapid socioeconomic development matter for heatwave risk. <i>Nature Communications</i> , 2019, 10, 136.	5.8	85
18	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

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19	Local and Nonlocal Land Surface Influence in European Heatwave Initial Condition Ensembles. <i>Geophysical Research Letters</i> , 2019, 46, 14082-14092.	1.5	17
20	From Hazard to Risk. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1689-1693.	1.7	14
21	Nonlinear dynamics of river runoff elucidated by horizontal visibility graphs. <i>Chaos</i> , 2018, 28, 075520.	1.0	11
22	Contrasting biosphere responses to hydrometeorological extremes: revisiting the 2010 western Russian heatwave. <i>Biogeosciences</i> , 2018, 15, 6067-6085.	1.3	57
23	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
24	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
25	Extreme heat-related mortality avoided under Paris Agreement goals. <i>Nature Climate Change</i> , 2018, 8, 551-553.	8.1	33
26	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
27	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
28	Drought, Heat, and the Carbon Cycle: a Review. <i>Current Climate Change Reports</i> , 2018, 4, 266-286.	2.8	132
29	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
30	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
31	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
32	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
33	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
34	Detecting impacts of extreme events with ecological in situ monitoring networks. <i>Biogeosciences</i> , 2017, 14, 4255-4277.	1.3	35
35	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
36	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	2.7	75

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37	Ecosystem impacts of climate extremes crucially depend on the timing. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5768-5770.	3.3	73
38	Diagnosing the Dynamics of Observed and Simulated Ecosystem Gross Primary Productivity with Time Causal Information Theory Quantifiers. PLoS ONE, 2016, 11, e0164960.	1.1	20
39	Stakeholder Perspectives on the Attribution of Extreme Weather Events: An Explorative Enquiry. Weather, Climate, and Society, 2015, 7, 224-237.	0.5	35
40	Combining large model ensembles with extreme value statistics to improve attribution statements of rare events. Weather and Climate Extremes, 2015, 9, 25-35.	1.6	35
41	Quantifying changes in climate variability and extremes: Pitfalls and their overcoming. Geophysical Research Letters, 2015, 42, 9990-9998.	1.5	64
42	Ground cover rice production systems increase soil carbon and nitrogen stocks at regional scale. Biogeosciences, 2015, 12, 4831-4840.	1.3	22
43	Beyond climatological extremes - assessing how the odds of hydrometeorological extreme events in South-East Europe change in a warming climate. Climatic Change, 2014, 125, 381-398.	1.7	57
44	Do water-saving ground cover rice production systems increase grain yields at regional scales?. Field Crops Research, 2013, 150, 19-28.	2.3	50
45	Nitrogen dynamics at undisturbed and burned Mediterranean shrublands of Salento Peninsula, Southern Italy. Plant and Soil, 2011, 343, 5-15.	1.8	34