Mathias Hauser

List of Publications by Year
in descending order

27 papers	1,809 citations	361413 20 h-index	526287 27 g-index
51 all docs	51 docs citations	51 times ranked	2244 citing authors

#	Article	IF	Citations
1	Soil moisture dominates dryness stress on ecosystem production globally. Nature Communications, 2020, 11, 4892.	12.8	300
2	An update of IPCC climate reference regions for subcontinental analysis of climate model data: definition and aggregated datasets. Earth System Science Data, 2020, 12, 2959-2970.	9.9	210
3	Presentâ€day irrigation mitigates heat extremes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1403-1422.	3.3	194
4	Role of soil moisture versus recent climate change for the 2010 heat wave in western Russia. Geophysical Research Letters, 2016, 43, 2819-2826.	4.0	160
5	Warming of hot extremes alleviated by expanding irrigation. Nature Communications, 2020, 11, 290.	12.8	118
6	Regional Climate Sensitivity of Climate Extremes in CMIP6 Versus CMIP5 Multimodel Ensembles. Earth's Future, 2020, 8, e2019EF001474.	6.3	100
7	Identifying Key Driving Processes of Major Recent HeatÂWaves. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11746-11765.	3.3	93
8	Methods and Model Dependency of Extreme Event Attribution: The 2015 European Drought. Earth's Future, 2017, 5, 1034-1043.	6.3	59
9	Prolonged Siberian heat of 2020 almost impossible without human influence. Climatic Change, 2021, 166, 9.	3.6	57
10	Lengthening of the growing season in wheat and maize producing regions. Weather and Climate Extremes, 2015, 9, 47-56.	4.1	50
11	Evaluating and improving the Community Land Model's sensitivity to land cover. Biogeosciences, 2018, 15, 4731-4757.	3.3	41
12	Accuracy of ground surface broadband shortwave radiation monitoring. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,838.	3.3	37
13	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe. Climate Dynamics, 2019, 52, 1187-1210.	3.8	34
14	Impact of precipitation and increasing temperatures on drought trends in eastern Africa. Earth System Dynamics, 2021, 12, 17-35.	7.1	32
15	Storylines of the 2018 Northern Hemisphere heatwave at pre-industrial and higher global warming levels. Earth System Dynamics, 2020, 11, 855-873.	7.1	31
16	Assessing the Dynamic Versus Thermodynamic Origin of Climate Model Biases. Geophysical Research Letters, 2018, 45, 8471-8479.	4.0	30
17	Montreal Protocol Benefits simulated with CCM SOCOL. Atmospheric Chemistry and Physics, 2013, 13, 3811-3823.	4.9	27
18	Revisiting assessments of ecosystem drought recovery. Environmental Research Letters, 2019, 14, 114028.	5.2	24

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19	Investigating soil moistureâ€“climate interactions with prescribed soil moisture experiments: an assessment with the Community Earth System Model (version 1.2). Geoscientific Model Development, 2017, 10, 1665-1677.	3.6	23
20	Toward an Inventory of the Impacts of Human-Induced Climate Change. Bulletin of the American Meteorological Society, 2020, 101, E1972-E1979.	3.3	21
21	Potential of global land water recycling to mitigate local temperature extremes. Earth System Dynamics, 2019, 10, 157-169.	7.1	17
22	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study. Journal of Climate, 2018, 31, 3387-3410.	3.2	16
23	Multiple perspectives on the attribution of the extreme European summer of 2012 to climate change. Climate Dynamics, 2018, 50, 3537-3555.	3.8	15
24	A compound event-oriented framework to tropical fire risk assessment in a changing climate. Environmental Research Letters, 2022, 17, 065015.	5.2	14
25	From emission scenarios to spatially resolved projections with a chain of computationally efficient emulators: coupling of MAGICC (v7.5.1) and MESMER (v0.8.3). Geoscientific Model Development, 2022, 15, 2085-2103.	3.6	12
26	Western US high June 2015 temperatures and their relation to global warming and soil moisture. Climate Dynamics, 2018, 50, 2587-2601.	3.8	9
27	Reply to: Large influence of atmospheric vapor pressure deficit on ecosystem production efficiency. Nature Communications, 2022, 13, 1654.	12.8	1