

Katja Frieler

List of Publications by Year in descending order

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59
papers

12,046
citations

125106

35
h-index

139680

61
g-index

70
all docs

70
docs citations

70
times ranked

16745
citing authors

#	ARTICLE	IF	CITATIONS
1	Global gridded crop models underestimate yield responses to droughts and heatwaves. Environmental Research Letters, 2022, 17, 044026.	2.2	26
2	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. Geoscientific Model Development, 2022, 15, 4597-4623.	1.3	37
3	Climate signals in river flood damages emerge under sound regional disaggregation. Nature Communications, 2021, 12, 2128.	5.8	26
4	ATTRICI v1.1 "counterfactual climate for impact attribution. Geoscientific Model Development, 2021, 14, 5269-5284.	1.3	34
5	Evaluation of river flood extent simulated with multiple global hydrological models and climate forcings. Environmental Research Letters, 2021, 16, 094010.	2.2	12
6	Double benefit of limiting global warming for tropical cyclone exposure. Nature Climate Change, 2021, 11, 861-866.	8.1	35
7	Saturation of Global Terrestrial Carbon Sink Under a High Warming Scenario. Global Biogeochemical Cycles, 2021, 35, e2020GB006800.	1.9	11
8	Intergenerational inequities in exposure to climate extremes. Science, 2021, 374, 158-160.	6.0	148
9	Reducing Uncertainties of Future Global Soil Carbon Responses to Climate and Land Use Change With Emergent Constraints. Global Biogeochemical Cycles, 2020, 34, e2020GB006589.	1.9	4
10	Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales. Earth's Future, 2020, 8, e2020EF001616.	2.4	69
11	Climate Extreme Versus Carbon Extreme: Responses of Terrestrial Carbon Fluxes to Temperature and Precipitation. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005252.	1.3	29
12	Event-based models to understand the scale of the impact of extremes. Nature Energy, 2020, 5, 111-114.	19.8	24
13	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. Earth System Science Data, 2020, 12, 1295-1320.	3.7	33
14	The effects of climate extremes on global agricultural yields. Environmental Research Letters, 2019, 14, 054010.	2.2	382
15	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	5.8	168
16	Adaptation required to preserve future high-end river flood risk at present levels. Science Advances, 2018, 4, eaao1914.	4.7	97
17	Spatial variations in crop growing seasons pivotal to reproduce global fluctuations in maize and wheat yields. Science Advances, 2018, 4, eaat4517.	4.7	45
18	Changes in crop yields and their variability at different levels of global warming. Earth System Dynamics, 2018, 9, 479-496.	2.7	33

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19	Evaluating changes of biomass in global vegetation models: the role of turnover fluctuations and ENSO events. <i>Environmental Research Letters</i> , 2018, 13, 075002.	2.2	3
20	Increased human and economic losses from river flooding with anthropogenic warming. <i>Nature Climate Change</i> , 2018, 8, 781-786.	8.1	380
21	A global historical data set of tropical cyclone exposure (TCE-DAT). <i>Earth System Science Data</i> , 2018, 10, 185-194.	3.7	43
22	Consistent negative response of US crops to high temperatures in observations and crop models. <i>Nature Communications</i> , 2017, 8, 13931.	5.8	321
23	The role of storage dynamics in annual wheat prices. <i>Environmental Research Letters</i> , 2017, 12, 054005.	2.2	24
24	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , 2017, 12, 045002.	2.2	30
25	The critical role of the routing scheme in simulating peak river discharge in global hydrological models. <i>Environmental Research Letters</i> , 2017, 12, 075003.	2.2	105
26	Assessing inter-sectoral climate change risks: the role of ISIMIP. <i>Environmental Research Letters</i> , 2017, 12, 010301.	2.2	49
27	Understanding the weather signal in national crop yield variability. <i>Earth's Future</i> , 2017, 5, 605-616.	2.4	85
28	Assessing the impacts of 1.5°C global warming simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). <i>Geoscientific Model Development</i> , 2017, 10, 4321-4345.	1.3	410
29	Modeling Loss-Propagation in the Global Supply Network: The Dynamic Agent-Based Model Acclimate. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	1
30	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3493-3515.	1.3	31
31	High-income does not protect against hurricane losses. <i>Environmental Research Letters</i> , 2016, 11, 084012.	2.2	45
32	Differential climate impacts for policy-relevant limits to global warming: the case of 1.5°C and 2°C. <i>Earth System Dynamics</i> , 2016, 7, 327-351.	2.7	508
33	Science and policy characteristics of the Paris Agreement temperature goal. <i>Nature Climate Change</i> , 2016, 6, 827-835.	8.1	536
34	Future sea level rise constrained by observations and long-term commitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2597-2602.	3.3	174
35	Consistent evidence of increasing Antarctic accumulation with warming. <i>Nature Climate Change</i> , 2015, 5, 348-352.	8.1	130
36	Increased record-breaking precipitation events under global warming. <i>Climatic Change</i> , 2015, 132, 501-515.	1.7	300

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37	Future changes in extratropical storm tracks and baroclinicity under climate change. <i>Environmental Research Letters</i> , 2014, 9, 084002.	2.2	83
38	The Inter-Sectoral Impact Model Intercomparison Project (ISI-MIP): Project framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3228-3232.	3.3	880
39	Constraints and potentials of future irrigation water availability on agricultural production under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3239-3244.	3.3	795
40	Multimodel assessment of water scarcity under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3245-3250.	3.3	1,282
41	Multisectoral climate impact hotspots in a warming world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3233-3238.	3.3	149
42	The elephant, the blind, and the intersectoral intercomparison of climate impacts: Fig. 1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3225-3227.	3.3	48
43	Limiting global warming to 2°C is unlikely to save most coral reefs. <i>Nature Climate Change</i> , 2013, 3, 165-170.	8.1	410
44	A multi-model analysis of risk of ecosystem shifts under climate change. <i>Environmental Research Letters</i> , 2013, 8, 044018.	2.2	69
45	A scaling approach to project regional sea level rise and its uncertainties. <i>Earth System Dynamics</i> , 2013, 4, 11-29.	2.7	120
46	A trend-preserving bias correction – the ISI-MIP approach. <i>Earth System Dynamics</i> , 2013, 4, 219-236.	2.7	885
47	Consistent increase in Indian monsoon rainfall and its variability across CMIP-5 models. <i>Earth System Dynamics</i> , 2013, 4, 287-300.	2.7	174
48	A Scaling Approach to Probabilistic Assessment of Regional Climate Change. <i>Journal of Climate</i> , 2012, 25, 3117-3144.	1.2	53
49	Estimating the near-surface permafrost-carbon feedback on global warming. <i>Biogeosciences</i> , 2012, 9, 649-665.	1.3	160
50	Influence of statin treatment on coronary atherosclerosis visualised using multidetector computed tomography. <i>European Radiology</i> , 2010, 20, 2824-2833.	2.3	49
51	Relevance of intracranial hypertension for cerebral metabolism in aneurysmal subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2009, 111, 94-101.	0.9	60
52	The exit strategy. <i>Nature Climate Change</i> , 2009, 1, 56-58.	8.1	24
53	Comparison of body size estimation in adolescents with different types of eating disorders. <i>European Eating Disorders Review</i> , 2009, 17, 468-475.	2.3	36
54	The German version of the Anorectic Behavior Observation Scale (ABOS). <i>European Child and Adolescent Psychiatry</i> , 2009, 18, 321-325.	2.8	10

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55	Greenhouse-gas emission targets for limiting global warming to 2°C. <i>Nature</i> , 2009, 458, 1158-1162.	13.7	2,245
56	Cerebral microdialysis for detection of bacterial meningitis in aneurysmal subarachnoid hemorrhage patients: a cohort study. <i>Critical Care</i> , 2009, 13, R2.	2.5	22
57	Intra- and interobserver variability in detection and assessment of calcified and noncalcified coronary artery plaques using 64-slice computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2008, 24, 735-742.	0.7	32
58	Rhinitis Medicamentosa: Therapeutic Effect of Diode Laser Inferior Turbinate Reduction on Nasal Obstruction and Decongestant Abuse. <i>American Journal of Rhinology & Allergy</i> , 2008, 22, 433-439.	2.3	26
59	The scent-diffusing ventilator for rehabilitation of olfactory function after laryngectomy. <i>American Journal of Rhinology & Allergy</i> , 2008, 22, 487-490.	2.3	11