

Florian HumpenÄnder

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

10,031
citations

81900

39
h-index

144013

57
g-index

62
all docs

62
docs citations

62
times ranked

10405
citing authors

#	ARTICLE	IF	CITATIONS
1	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. <i>Global Environmental Change</i> , 2017, 42, 153-168.	7.8	2,966
2	Scenarios towards limiting global mean temperature increase below 1.5 °C. <i>Nature Climate Change</i> , 2018, 8, 325-332.	18.8	795
3	Land-use futures in the shared socio-economic pathways. <i>Global Environmental Change</i> , 2017, 42, 331-345.	7.8	645
4	Fossil-fueled development (SSP5): An energy and resource intensive scenario for the 21st century. <i>Global Environmental Change</i> , 2017, 42, 297-315.	7.8	418
5	Bending the curve of terrestrial biodiversity needs an integrated strategy. <i>Nature</i> , 2020, 585, 551-556.	27.8	413
6	Harmonization of global land use change and management for the period 850–2100 (LUH2) for CMIP6. <i>Geoscientific Model Development</i> , 2020, 13, 5425-5464.	3.6	408
7	Reactive nitrogen requirements to feed the world in 2050 and potential to mitigate nitrogen pollution. <i>Nature Communications</i> , 2014, 5, 3858.	12.8	356
8	Understanding future emissions from low-carbon power systems by integration of life-cycle assessment and integrated energy modelling. <i>Nature Energy</i> , 2017, 2, 939-945.	39.5	321
9	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020, 11, 2096.	12.8	241
10	Impact of declining renewable energy costs on electrification in low-emission scenarios. <i>Nature Energy</i> , 2022, 7, 32-42.	39.5	196
11	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. <i>Nature Communications</i> , 2019, 10, 5229.	12.8	188
12	A sustainable development pathway for climate action within the UN 2030 Agenda. <i>Nature Climate Change</i> , 2021, 11, 656-664.	18.8	179
13	Hotspots of uncertainty in land-use and land-cover change projections: a global-scale model comparison. <i>Global Change Biology</i> , 2016, 22, 3967-3983.	9.5	171
14	Land-use protection for climate change mitigation. <i>Nature Climate Change</i> , 2014, 4, 1095-1098.	18.8	164
15	A multi-model assessment of food security implications of climate change mitigation. <i>Nature Sustainability</i> , 2019, 2, 386-396.	23.7	152
16	Land-use transition for bioenergy and climate stabilization: model comparison of drivers, impacts and interactions with other land use based mitigation options. <i>Climatic Change</i> , 2014, 123, 495-509.	3.6	140
17	Investigating afforestation and bioenergy CCS as climate change mitigation strategies. <i>Environmental Research Letters</i> , 2014, 9, 064029.	5.2	129
18	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018, 52, 7351-7359.	10.0	124

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19	Key determinants of global land-use projections. <i>Nature Communications</i> , 2019, 10, 2166.	12.8	123
20	The impact of high-end climate change on agricultural welfare. <i>Science Advances</i> , 2016, 2, e1501452.	10.3	118
21	Land-based measures to mitigate climate change: Potential and feasibility by country. <i>Global Change Biology</i> , 2021, 27, 6025-6058.	9.5	114
22	Trade-offs between land and water requirements for large-scale bioenergy production. <i>GCB Bioenergy</i> , 2016, 8, 11-24.	5.6	108
23	Assessing uncertainties in land cover projections. <i>Global Change Biology</i> , 2017, 23, 767-781.	9.5	103
24	Cost and attainability of meeting stringent climate targets without overshoot. <i>Nature Climate Change</i> , 2021, 11, 1063-1069.	18.8	102
25	Large-scale bioenergy production: how to resolve sustainability trade-offs?. <i>Environmental Research Letters</i> , 2018, 13, 024011.	5.2	96
26	Comparing impacts of climate change and mitigation on global agriculture by 2050. <i>Environmental Research Letters</i> , 2018, 13, 064021.	5.2	93
27	The value of bioenergy in low stabilization scenarios: an assessment using REMIND-MAgPIE. <i>Climatic Change</i> , 2014, 123, 705-718.	3.6	81
28	Afforestation to mitigate climate change: impacts on food prices under consideration of albedo effects. <i>Environmental Research Letters</i> , 2016, 11, 085001.	5.2	74
29	Peatland protection and restoration are key for climate change mitigation. <i>Environmental Research Letters</i> , 2020, 15, 104093.	5.2	74
30	Projected environmental benefits of replacing beef with microbial protein. <i>Nature</i> , 2022, 605, 90-96.	27.8	72
31	Critical adjustment of land mitigation pathways for assessing countries' climate progress. <i>Nature Climate Change</i> , 2021, 11, 425-434.	18.8	61
32	Mitigation Strategies for Greenhouse Gas Emissions from Agriculture and Land-Use Change: Consequences for Food Prices. <i>Environmental Science & Technology</i> , 2017, 51, 365-374.	10.0	57
33	Large uncertainty in carbon uptake potential of land-based climate change mitigation efforts. <i>Global Change Biology</i> , 2018, 24, 3025-3038.	9.5	56
34	MAgPIE 4 – a modular open-source framework for modeling global land systems. <i>Geoscientific Model Development</i> , 2019, 12, 1299-1317.	3.6	56
35	Targeted policies can compensate most of the increased sustainability risks in 1.5°C mitigation scenarios. <i>Environmental Research Letters</i> , 2018, 13, 064038.	5.2	48
36	Environmental flow provision: Implications for agricultural water and land-use at the global scale. <i>Global Environmental Change</i> , 2015, 30, 113-132.	7.8	47

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37	Climate extremes, land–climate feedbacks and land-use forcing at 1.5°C. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20160450.	3.4	46
38	Carbon dioxide removal technologies are not born equal. <i>Environmental Research Letters</i> , 2021, 16, 074021.	5.2	45
39	Livestock and human use of land: Productivity trends and dietary choices as drivers of future land and carbon dynamics. <i>Global and Planetary Change</i> , 2017, 159, 1-10.	3.5	44
40	Effects of land-use change on the carbon balance of 1st generation biofuels: An analysis for the European Union combining spatial modeling and LCA. <i>Biomass and Bioenergy</i> , 2013, 56, 166-178.	5.7	43
41	Land-Use and Carbon Cycle Responses to Moderate Climate Change: Implications for Land-Based Mitigation?. <i>Environmental Science & Technology</i> , 2015, 49, 6731-6739.	10.0	36
42	Livestock production and the water challenge of future food supply: Implications of agricultural management and dietary choices. <i>Global Environmental Change</i> , 2017, 47, 121-132.	7.8	34
43	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. <i>Biogeosciences</i> , 2017, 14, 4829-4850.	3.3	33
44	Land-based implications of early climate actions without global net-negative emissions. <i>Nature Sustainability</i> , 2021, 4, 1052-1059.	23.7	27
45	The global economic long-term potential of modern biomass in a climate-constrained world. <i>Environmental Research Letters</i> , 2014, 9, 074017.	5.2	26
46	Mapping the yields of lignocellulosic bioenergy crops from observations at the global scale. <i>Earth System Science Data</i> , 2020, 12, 789-804.	9.9	26
47	Bio-energy and CO2 emission reductions: an integrated land-use and energy sector perspective. <i>Climatic Change</i> , 2020, 163, 1675-1693.	3.6	23
48	Pasture intensification is insufficient to relieve pressure on conservation priority areas in open agricultural markets. <i>Global Change Biology</i> , 2018, 24, 3199-3213.	9.5	22
49	The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. <i>Climatic Change</i> , 2020, 162, 1213-1229.	3.6	22
50	Taking account of governance: Implications for land-use dynamics, food prices, and trade patterns. <i>Ecological Economics</i> , 2016, 122, 12-24.	5.7	21
51	Impact of LULCC on the emission of BVOCs during the 21st century. <i>Atmospheric Environment</i> , 2017, 165, 73-87.	4.1	11
52	Are scenario projections overly optimistic about future yield progress?. <i>Global Environmental Change</i> , 2020, 64, 102120.	7.8	11
53	Quantifying synergies and trade-offs in the global water-land-food-climate nexus using a multi-model scenario approach. <i>Environmental Research Letters</i> , 2022, 17, 045004.	5.2	11
54	Global biomass supply modeling for long-run management of the climate system. <i>Climatic Change</i> , 2022, 172, .	3.6	8

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55	Accounting for local temperature effect substantially alters afforestation patterns. Environmental Research Letters, 2022, 17, 024030.	5.2	3
56	Estimating global land system impacts of timber plantations using MAgPIE 4.3.5. Geoscientific Model Development, 2021, 14, 6467-6494.	3.6	2