

Matthew J Gidden

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

3,421
citations

304602

22
h-index

454834

30
g-index

51
all docs

51
docs citations

51
times ranked

4449
citing authors

#	ARTICLE	IF	CITATIONS
1	The shared socio-economic pathway (SSP) greenhouse gas concentrations and their extensions to 2500. <i>Geoscientific Model Development</i> , 2020, 13, 3571-3605.	1.3	539
2	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. <i>Geoscientific Model Development</i> , 2019, 12, 1443-1475.	1.3	496
3	Current and future global climate impacts resulting from COVID-19. <i>Nature Climate Change</i> , 2020, 10, 913-919.	8.1	400
4	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. <i>Nature Energy</i> , 2018, 3, 589-599.	19.8	377
5	A new scenario logic for the Paris Agreement long-term temperature goal. <i>Nature</i> , 2019, 573, 357-363.	13.7	307
6	Opening the black box of energy modelling: Strategies and lessons learned. <i>Energy Strategy Reviews</i> , 2018, 19, 63-71.	3.3	168
7	Wave of net zero emission targets opens window to meeting the Paris Agreement. <i>Nature Climate Change</i> , 2021, 11, 820-822.	8.1	129
8	The MESSAGE Integrated Assessment Model and the ix modeling platform (ixmp): An open framework for integrated and cross-cutting analysis of energy, climate, the environment, and sustainable development. <i>Environmental Modelling and Software</i> , 2019, 112, 143-156.	1.9	114
9	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. <i>Climatic Change</i> , 2020, 163, 1553-1568.	1.7	112
10	COVID-19 recovery funds dwarf clean energy investment needs. <i>Science</i> , 2020, 370, 298-300.	6.0	101
11	The generation of gridded emissions data for CMIP6. <i>Geoscientific Model Development</i> , 2020, 13, 461-482.	1.3	88
12	Can updated climate pledges limit warming well below 2°C?. <i>Science</i> , 2021, 374, 693-695.	6.0	80
13	Fair-share carbon dioxide removal increases major emitter responsibility. <i>Nature Climate Change</i> , 2020, 10, 836-841.	8.1	68
14	Income inequality projections for the Shared Socioeconomic Pathways (SSPs). <i>Futures</i> , 2019, 105, 27-39.	1.4	59
15	Balancing clean water-climate change mitigation trade-offs. <i>Environmental Research Letters</i> , 2019, 14, 014009.	2.2	48
16	A methodology and implementation of automated emissions harmonization for use in Integrated Assessment Models. <i>Environmental Modelling and Software</i> , 2018, 105, 187-200.	1.9	32
17	An emission pathway classification reflecting the Paris Agreement climate objectives. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	32
18	Bioenergy technologies in long-run climate change mitigation: results from the EMF-33 study. <i>Climatic Change</i> , 2020, 163, 1603-1620.	1.7	31

#	ARTICLE	IF	CITATIONS
19	Access to clean cooking services in energy and emission scenarios after COVID-19. <i>Nature Energy</i> , 2021, 6, 1067-1076.	19.8	31
20	EMF-33 insights on bioenergy with carbon capture and storage (BECCS). <i>Climatic Change</i> , 2020, 163, 1621-1637.	1.7	30
21	First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect. <i>Geoscientific Model Development</i> , 2019, 12, 989-1007.	1.3	27
22	Decarbonization of Australia's Energy System: Integrated Modeling of the Transformation of Electricity, Transportation, and Industrial Sectors. <i>Energies</i> , 2020, 13, 3805.	1.6	27
23	Quantifying the potential for reservoirs to secure future surface water yields in the world's largest river basins. <i>Environmental Research Letters</i> , 2018, 13, 044026.	2.2	20
24	A comparison of low carbon investment needs between China and Europe in stringent climate policy scenarios. <i>Environmental Research Letters</i> , 2019, 14, 054017.	2.2	18
25	Decarbonization pathways and energy investment needs for developing Asia in line with 'well below' 2°C. <i>Climate Policy</i> , 2020, 20, 234-245.	2.6	18
26	pyam: Analysis and visualisation of integrated assessment and macro-energy scenarios. <i>Open Research Europe</i> , 0, 1, 74.	2.0	15
27	pyam: a Python Package for the Analysis and Visualization of Models of the Interaction of Climate, Human, and Environmental Systems. <i>Journal of Open Source Software</i> , 2019, 4, 1095.	2.0	10
28	Tracing international migration in projections of income and inequality across the Shared Socioeconomic Pathways. <i>Climatic Change</i> , 2021, 166, 1.	1.7	8
29	Clean cooking access may stall under slow post-pandemic recovery and ambitious climate mitigation without explicit focus. <i>Nature Energy</i> , 2021, 6, 1009-1010.	19.8	4
30	The contribution of bioenergy to the decarbonization of transport: a multi-model assessment. <i>Climatic Change</i> , 2022, 170, 1.	1.7	4
31	A methodology for determining the dynamic exchange of resources in nuclear fuel cycle simulation. <i>Nuclear Engineering and Design</i> , 2016, 310, 378-394.	0.8	2
32	pyam: Analysis and visualisation of integrated assessment and macro-energy scenarios. <i>Open Research Europe</i> , 0, 1, 74.	2.0	2
33	Transparency crucial to Paris climate scenarios' Response. <i>Science</i> , 2022, 375, 828-828.	6.0	0