

James A Edmonds

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

18,671
citations

101543

36
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

19205
citing authors

#	ARTICLE	IF	CITATIONS
1	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011, 109, 5-31.	3.6	5,871
2	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
3	RCP4.5: a pathway for stabilization of radiative forcing by 2100. <i>Climatic Change</i> , 2011, 109, 77-94.	3.6	1,238
4	Net-zero emissions energy systems. <i>Science</i> , 2018, 360, .	12.6	1,165
5	Biophysical and economic limits to negative CO ₂ emissions. <i>Nature Climate Change</i> , 2016, 6, 42-50.	18.8	973
6	Scenarios towards limiting global mean temperature increase below 1.5 °C. <i>Nature Climate Change</i> , 2018, 8, 325-332.	18.8	795
7	Implications of Limiting CO ₂ Concentrations for Land Use and Energy. <i>Science</i> , 2009, 324, 1183-1186.	12.6	778
8	A new scenario framework for Climate Change Research: scenario matrix architecture. <i>Climatic Change</i> , 2014, 122, 373-386.	3.6	510
9	International climate policy architectures: Overview of the EMF 22 International Scenarios. <i>Energy Economics</i> , 2009, 31, S64-S81.	12.1	397
10	The role of technology for achieving climate policy objectives: overview of the EMF 27 study on global technology and climate policy strategies. <i>Climatic Change</i> , 2014, 123, 353-367.	3.6	348
11	Locked into Copenhagen pledges – Implications of short-term emission targets for the cost and feasibility of long-term climate goals. <i>Technological Forecasting and Social Change</i> , 2015, 90, 8-23.	11.6	270
12	Assessing China’s efforts to pursue the 1.5°C warming limit. <i>Science</i> , 2021, 372, 378-385.	12.6	267
13	A new scenario framework for climate change research: the concept of shared climate policy assumptions. <i>Climatic Change</i> , 2014, 122, 401-414.	3.6	266
14	The SSP4: A world of deepening inequality. <i>Global Environmental Change</i> , 2017, 42, 284-296.	7.8	265
15	Can Paris pledges avert severe climate change?. <i>Science</i> , 2015, 350, 1168-1169.	12.6	260
16	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020, 11, 2096.	12.8	241
17	GCAM v5.1: representing the linkages between energy, water, land, climate, and economic systems. <i>Geoscientific Model Development</i> , 2019, 12, 677-698.	3.6	211
18	Evaluating the economic impact of water scarcity in a changing world. <i>Nature Communications</i> , 2021, 12, 1915.	12.8	174

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19	Long-term global water projections using six socioeconomic scenarios in an integrated assessment modeling framework. <i>Technological Forecasting and Social Change</i> , 2014, 81, 205-226.	11.6	159
20	A long-term global energy- economic model of carbon dioxide release from fossil fuel use. <i>Energy Economics</i> , 1983, 5, 74-88.	12.1	141
21	Economic tools to promote transparency and comparability in the Paris Agreement. <i>Nature Climate Change</i> , 2016, 6, 1000-1004.	18.8	122
22	Climate impacts on hydropower and consequences for global electricity supply investment needs. <i>Energy</i> , 2017, 141, 2081-2090.	8.8	108
23	2.6: Limiting climate change to 450ppm CO2 equivalent in the 21st century. <i>Energy Economics</i> , 2009, 31, S107-S120.	12.1	106
24	Trade-offs of different land and bioenergy policies on the path to achieving climate targets. <i>Climatic Change</i> , 2014, 123, 691-704.	3.6	98
25	Climate policy models need to get real about people – here’s how. <i>Nature</i> , 2021, 594, 174-176.	27.8	81
26	ECONOMIC AND PHYSICAL MODELING OF LAND USE IN GCAM 3.0 AND AN APPLICATION TO AGRICULTURAL PRODUCTIVITY, LAND, AND TERRESTRIAL CARBON. <i>Climate Change Economics</i> , 2014, 05, 1450003.	5.0	80
27	Balancing global water availability and use at basin scale in an integrated assessment model. <i>Climatic Change</i> , 2016, 136, 217-231.	3.6	79
28	Deep mitigation of CO2 and non-CO2 greenhouse gases toward 1.5°C and 2°C futures. <i>Nature Communications</i> , 2021, 12, 6245.	12.8	78
29	Measuring progress from nationally determined contributions to mid-century strategies. <i>Nature Climate Change</i> , 2017, 7, 871-874.	18.8	73
30	Improved representation of investment decisions in assessments of CO2 mitigation. <i>Nature Climate Change</i> , 2015, 5, 436-440.	18.8	68
31	Carbon capture and storage across fuels and sectors in energy system transformation pathways. <i>International Journal of Greenhouse Gas Control</i> , 2017, 57, 34-41.	4.6	68
32	Climate mitigation policy implications for global irrigation water demand. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015, 20, 389-407.	2.1	63
33	Assessing global fossil fuel availability in a scenario framework. <i>Energy</i> , 2016, 111, 580-592.	8.8	54
34	Large Ensemble Analytic Framework for Consequence-Driven Discovery of Climate Change Scenarios. <i>Earth's Future</i> , 2018, 6, 488-504.	6.3	54
35	Future changes in the trading of virtual water. <i>Nature Communications</i> , 2020, 11, 3632.	12.8	54
36	The role of direct air capture and negative emissions technologies in the shared socioeconomic pathways towards +1.5°C and +2°C futures. <i>Environmental Research Letters</i> , 2021, 16, 114012.	5.2	40

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37	The surprisingly inexpensive cost of state-driven emission control strategies. <i>Nature Climate Change</i> , 2021, 11, 738-745.	18.8	28
38	The role of carbon dioxide removal in net-zero emissions pledges. <i>Energy and Climate Change</i> , 2021, 2, 100043.	4.4	28
39	Will economic growth and fossil fuel scarcity help or hinder climate stabilization?. <i>Climatic Change</i> , 2016, 136, 7-22.	3.6	25
40	Climate and carbon budget implications of linked future changes in CO ₂ and non-CO ₂ forcing. <i>Environmental Research Letters</i> , 2019, 14, 044007.	5.2	23
41	HOW MUCH COULD ARTICLE 6 ENHANCE NATIONALLY DETERMINED CONTRIBUTION AMBITION TOWARD PARIS AGREEMENT GOALS THROUGH ECONOMIC EFFICIENCY?. <i>Climate Change Economics</i> , 2021, 12, .	5.0	19
42	A GLOBAL FOOD DEMAND MODEL FOR THE ASSESSMENT OF COMPLEX HUMAN-EARTH SYSTEMS. <i>Climate Change Economics</i> , 2017, 08, 1750012.	5.0	9
43	Fossil energy deployment through midcentury consistent with 2°C climate stabilization. <i>Energy and Climate Change</i> , 2021, 2, 100034.	4.4	7
44	Global climate, energy, and economic implications of international energy offsets programs. <i>Climatic Change</i> , 2015, 133, 583-596.	3.6	6
45	Geospatial assessment of the economic opportunity for reforestation in Maryland, USA. <i>Environmental Research Letters</i> , 2021, 16, 084012.	5.2	3
46	ambrosia: An R package for calculating and analyzing food demand that is responsive to changing incomes and prices. <i>Journal of Open Source Software</i> , 2021, 6, 2890.	4.6	1
47	To achieve deep cuts in US emissions, state-driven policy is only slightly more expensive than nationally uniform policy. <i>Nature Climate Change</i> , 2021, 11, 911-912.	18.8	1
48	Transparency crucial to Paris climate scenariosâ€™Response. <i>Science</i> , 2022, 375, 828-828.	12.6	0