

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	Transparency crucial to Paris climate scenariosâ€™ Response. <i>Science</i> , 2022, 375, 828-828.	12.6	0
2	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
3	Evaluating the economic impact of water scarcity in a changing world. <i>Nature Communications</i> , 2021, 12, 1915.	12.8	174
4	Assessing Chinaâ€™s efforts to pursue the 1.5Â°C warming limit. <i>Science</i> , 2021, 372, 378-385.	12.6	267
5	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
6	Climate policy models need to get real about people â€™ hereâ€™s how. <i>Nature</i> , 2021, 594, 174-176.	27.8	81
7	Geospatial assessment of the economic opportunity for reforestation in Maryland, USA. <i>Environmental Research Letters</i> , 2021, 16, 084012.	5.2	3
8	The surprisingly inexpensive cost of state-driven emission control strategies. <i>Nature Climate Change</i> , 2021, 11, 738-745.	18.8	28
9	Fossil energy deployment through midcentury consistent with 2Â°C climate stabilization. <i>Energy and Climate Change</i> , 2021, 2, 100034.	4.4	7
10	The role of carbon dioxide removal in net-zero emissions pledges. <i>Energy and Climate Change</i> , 2021, 2, 100043.	4.4	28
11	The role of direct air capture and negative emissions technologies in the shared socioeconomic pathways towards +1.5 Â°C and +2 Â°C futures. <i>Environmental Research Letters</i> , 2021, 16, 114012.	5.2	40
12	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
13	Deep mitigation of CO ₂ and non-CO ₂ greenhouse gases toward 1.5%Â°C and 2%Â°C futures. <i>Nature Communications</i> , 2021, 12, 6245.	12.8	78
14	Future changes in the trading of virtual water. <i>Nature Communications</i> , 2020, 11, 3632.	12.8	54
15	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020, 11, 2096.	12.8	241
16	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
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	Scenarios towards limiting global mean temperature increase below 1.5 Â°C. <i>Nature Climate Change</i> , 2018, 8, 325-332.	18.8	795

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19	Large Ensemble Analytic Framework for Consequence-Driven Discovery of Climate Change Scenarios. Earth's Future, 2018, 6, 488-504.	6.3	54
20	Net-zero emissions energy systems. Science, 2018, 360, .	12.6	1,165
21	The SSP4: A world of deepening inequality. Global Environmental Change, 2017, 42, 284-296.	7.8	265
22	Carbon capture and storage across fuels and sectors in energy system transformation pathways. International Journal of Greenhouse Gas Control, 2017, 57, 34-41.	4.6	68
23	A GLOBAL FOOD DEMAND MODEL FOR THE ASSESSMENT OF COMPLEX HUMAN-EARTH SYSTEMS. Climate Change Economics, 2017, 08, 1750012.	5.0	9
24	Climate impacts on hydropower and consequences for global electricity supply investment needs. Energy, 2017, 141, 2081-2090.	8.8	108
25	Measuring progress from nationally determined contributions to mid-century strategies. Nature Climate Change, 2017, 7, 871-874.	18.8	73
26	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change, 2017, 42, 153-168.	7.8	2,966
27	Will economic growth and fossil fuel scarcity help or hinder climate stabilization?. Climatic Change, 2016, 136, 7-22.	3.6	25
28	Economic tools to promote transparency and comparability in the Paris Agreement. Nature Climate Change, 2016, 6, 1000-1004.	18.8	122
29	Balancing global water availability and use at basin scale in an integrated assessment model. Climatic Change, 2016, 136, 217-231.	3.6	79
30	Assessing global fossil fuel availability in a scenario framework. Energy, 2016, 111, 580-592.	8.8	54
31	Biophysical and economic limits to negative CO2 emissions. Nature Climate Change, 2016, 6, 42-50.	18.8	973
32	Global climate, energy, and economic implications of international energy offsets programs. Climatic Change, 2015, 133, 583-596.	3.6	6
33	Improved representation of investment decisions in assessments of CO2 mitigation. Nature Climate Change, 2015, 5, 436-440.	18.8	68
34	Can Paris pledges avert severe climate change?. Science, 2015, 350, 1168-1169.	12.6	260
35	Locked into Copenhagen pledges â€” Implications of short-term emission targets for the cost and feasibility of long-term climate goals. Technological Forecasting and Social Change, 2015, 90, 8-23.	11.6	270
36	Climate mitigation policy implications for global irrigation water demand. Mitigation and Adaptation Strategies for Global Change, 2015, 20, 389-407.	2.1	63

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37	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
38	A new scenario framework for Climate Change Research: scenario matrix architecture. <i>Climatic Change</i> , 2014, 122, 373-386.	3.6	510
39	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
40	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
41	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
42	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
43	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011, 109, 5-31.	3.6	5,871
44	RCP4.5: a pathway for stabilization of radiative forcing by 2100. <i>Climatic Change</i> , 2011, 109, 77-94.	3.6	1,238
45	2.6: Limiting climate change to 450Åppm CO2 equivalent in the 21st century. <i>Energy Economics</i> , 2009, 31, S107-S120.	12.1	106
46	International climate policy architectures: Overview of the EMF 22 International Scenarios. <i>Energy Economics</i> , 2009, 31, S64-S81.	12.1	397
47	Implications of Limiting CO ₂ Concentrations for Land Use and Energy. <i>Science</i> , 2009, 324, 1183-1186.	12.6	778
48	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