

David L Mccollum

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7799912/david-l-mccollum-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

5,133
citations

36
h-index

67
g-index

67
ext. papers

6,381
ext. citations

18.1
avg, IF

5.53
L-index

#	Paper	IF	Citations
59	Simulating automakers' response to zero emissions vehicle regulation. <i>Transportation Research, Part D: Transport and Environment</i> , 2021 , 94, 102789	6.4	2
58	Intergovernmental Panel on Climate Change: Transparency and integrated assessment modeling. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021 , 12, e727	8.4	1
57	Deep decarbonization impacts on electric load shapes and peak demand. <i>Environmental Research Letters</i> , 2021 , 16, 094054	6.2	1
56	Decarbonization pathways and energy investment needs for developing Asia in line with Well below 2°C. <i>Climate Policy</i> , 2020 , 20, 234-245	5.3	9
55	Why have multiple climate policies for light-duty vehicles? Policy mix rationales, interactions and research gaps. <i>Transportation Research, Part A: Policy and Practice</i> , 2020 , 135, 309-326	3.7	12
54	Reply to: Why fossil fuel producer subsidies matter. <i>Nature</i> , 2020 , 578, E5-E7	50.4	2
53	Application of experience curves and learning to other fields 2020 , 49-62		
52	COVID-19 recovery funds dwarf clean energy investment needs. <i>Science</i> , 2020 , 370, 298-300	33.3	50
51	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. <i>Climatic Change</i> , 2020 , 162, 1805-1822	4.5	64
50	A comparison of low carbon investment needs between China and Europe in stringent climate policy scenarios. <i>Environmental Research Letters</i> , 2019 , 14, 054017	6.2	12
49	Balancing clean water-climate change mitigation trade-offs. <i>Environmental Research Letters</i> , 2019 , 14, 014009	6.2	29
48	Connecting the sustainable development goals by their energy inter-linkages. <i>Environmental Research Letters</i> , 2018 , 13, 033006	6.2	168
47	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. <i>Nature</i> , 2018 , 554, 229-233	50.4	66
46	Demand Side Management: A Case for Disruptive Behaviour. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 47-59	0.4	
45	Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles. <i>Nature Energy</i> , 2018 , 3, 664-673	62.3	69
44	A low energy demand scenario for meeting the 1.5 °C target and sustainable development goals without negative emission technologies. <i>Nature Energy</i> , 2018 , 3, 515-527	62.3	428
43	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. <i>Nature Energy</i> , 2018 , 3, 589-599	62.3	207

42	Interactions between social learning and technological learning in electric vehicle futures. <i>Environmental Research Letters</i> , 2018 , 13, 124004	6.2	15
41	Mapping interactions between the sustainable development goals: lessons learned and ways forward. <i>Sustainability Science</i> , 2018 , 13, 1489-1503	6.4	228
40	Improving the behavioral realism of global integrated assessment models: An application to consumers' vehicle choices. <i>Transportation Research, Part D: Transport and Environment</i> , 2017 , 55, 322-342	6.4	97
39	The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. <i>Global Environmental Change</i> , 2017 , 42, 251-267	10.1	349
38	Detailed assessment of global transport-energy models' structures and projections. <i>Transportation Research, Part D: Transport and Environment</i> , 2017 , 55, 294-309	6.4	48
37	Assessing the Feasibility of Global Long-Term Mitigation Scenarios. <i>Energies</i> , 2017 , 10, 89	3.1	37
36	Policy trade-offs between climate mitigation and clean cook-stove access in South Asia. <i>Nature Energy</i> , 2016 , 1,	62.3	56
35	Comparison and interactions between the long-term pursuit of energy independence and climate policies. <i>Nature Energy</i> , 2016 , 1,	62.3	36
34	Quantifying uncertainties influencing the long-term impacts of oil prices on energy markets and carbon emissions. <i>Nature Energy</i> , 2016 , 1,	62.3	29
33	Biophysical and economic limits to negative CO2 emissions. <i>Nature Climate Change</i> , 2016 , 6, 42-50	21.4	684
32	2 °C and SDGs: united they stand, divided they fall?. <i>Environmental Research Letters</i> , 2016 , 11, 034022	6.2	99
31	Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 363-394	17.2	71
30	Energy and environment. Transport: A roadblock to climate change mitigation?. <i>Science</i> , 2015 , 350, 911-933	33.3	203
29	Future energy system challenges for Africa: Insights from Integrated Assessment Models. <i>Energy Policy</i> , 2015 , 86, 705-717	7.2	26
28	A short note on integrated assessment modeling approaches: Rejoinder to the review of 'Making or breaking climate targets' [The AMPERE study on staged accession scenarios for climate policy] <i>Technological Forecasting and Social Change</i> , 2015 , 99, 273-276	9.5	10
27	Achieving California's 80% greenhouse gas reduction target in 2050: Technology, policy and scenario analysis using CA-TIMES energy economic systems model. <i>Energy Policy</i> , 2015 , 77, 118-130	7.2	99
26	CO2 emission mitigation and fossil fuel markets: Dynamic and international aspects of climate policies. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 243-256	9.5	58
25	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	9.5	222

24	Stranded on a low-carbon planet: Implications of climate policy for the phase-out of coal-based power plants. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 89-102	9.5	93
23	Mitigation choices impact carbon budget size compatible with low temperature goals. <i>Environmental Research Letters</i> , 2015 , 10, 075003	6.2	23
22	Comparing future patterns of energy system change in 2 °C scenarios with historically observed rates of change. <i>Global Environmental Change</i> , 2015 , 35, 436-449	10.1	29
21	Multi-criteria analysis of nuclear power in the global energy system: Assessing trade-offs between simultaneously attainable economic, environmental and social goals. <i>Energy Strategy Reviews</i> , 2015 , 8, 45-55	9.8	14
20	Post-2020 climate agreements in the major economies assessed in the light of global models. <i>Nature Climate Change</i> , 2015 , 5, 119-126	21.4	132
19	Transport electrification: A key element for energy system transformation and climate stabilization. <i>Climatic Change</i> , 2014 , 123, 651-664	4.5	66
18	Fossil resource and energy security dynamics in conventional and carbon-constrained worlds. <i>Climatic Change</i> , 2014 , 123, 413-426	4.5	99
17	Air-pollution emission ranges consistent with the representative concentration pathways. <i>Nature Climate Change</i> , 2014 , 4, 446-450	21.4	41
16	Climate policies can help resolve energy security and air pollution challenges. <i>Climatic Change</i> , 2013 , 119, 479-494	4.5	105
15	Probabilistic cost estimates for climate change mitigation. <i>Nature</i> , 2013 , 493, 79-83	50.4	207
14	2020 emissions levels required to limit warming to below 2 °C. <i>Nature Climate Change</i> , 2013 , 3, 405-412	21.4	132
13	THE DISTRIBUTION OF THE MAJOR ECONOMIES' EFFORT IN THE DURBAN PLATFORM SCENARIOS. <i>Climate Change Economics</i> , 2013 , 04, 1340009	0.9	51
12	ENERGY INVESTMENTS UNDER CLIMATE POLICY: A COMPARISON OF GLOBAL MODELS. <i>Climate Change Economics</i> , 2013 , 04, 1340010	0.9	50
11	ENERGY SECURITY OF CHINA, INDIA, THE E.U. AND THE U.S. UNDER LONG-TERM SCENARIOS: RESULTS FROM SIX IAMs. <i>Climate Change Economics</i> , 2013 , 04, 1340011	0.9	25
10	A MULTI-MODEL ANALYSIS OF THE REGIONAL AND SECTORAL ROLES OF BIOENERGY IN NEAR- AND LONG-TERM CO2 EMISSIONS REDUCTION. <i>Climate Change Economics</i> , 2013 , 04, 1340014	0.9	16
9	The UN's 'Sustainable Energy for All' initiative is compatible with a warming limit of 2 °C. <i>Nature Climate Change</i> , 2013 , 3, 545-551	21.4	45
8	Deep greenhouse gas reduction scenarios for California: Strategic implications from the CA-TIMES energy-economic systems model. <i>Energy Strategy Reviews</i> , 2012 , 1, 19-32	9.8	71
7	Beyond Rio: Sustainable energy scenarios for the 21st century. <i>Natural Resources Forum</i> , 2012 , 36, 215-230	4	4

6	Synergies in the Asian energy system: Climate change, energy security, energy access and air pollution. <i>Energy Economics</i> , 2012 , 34, S470-S480	8.3	44
5	Meeting an 80% reduction in greenhouse gas emissions from transportation by 2050: A case study in California. <i>Transportation Research, Part D: Transport and Environment</i> , 2009 , 14, 147-156	6.4	131
4	Achieving deep reductions in US transport greenhouse gas emissions: Scenario analysis and policy implications. <i>Energy Policy</i> , 2009 , 37, 5580-5596	7.2	90
3	Future impacts of coal distribution constraints on coal costs. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2009 , 45, 460-471	9	2
2	Energy Pathways for Sustainable Development 1205-1306		19
1	Technology Portfolios: Modelling Technological Uncertainty and Innovation Risks 89-102		0