

David L Mccollum

List of Publications by Citations

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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	Biophysical and economic limits to negative CO2 emissions. <i>Nature Climate Change</i> , 2016 , 6, 42-50	21.4	684
58	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
57	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
56	Mapping interactions between the sustainable development goals: lessons learned and ways forward. <i>Sustainability Science</i> , 2018 , 13, 1489-1503	6.4	228
55	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
54	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
53	Probabilistic cost estimates for climate change mitigation. <i>Nature</i> , 2013 , 493, 79-83	50.4	207
52	Energy and environment. Transport: A roadblock to climate change mitigation?. <i>Science</i> , 2015 , 350, 911-933	33.3	203
51	Connecting the sustainable development goals by their energy inter-linkages. <i>Environmental Research Letters</i> , 2018 , 13, 033006	6.2	168
50	2020 emissions levels required to limit warming to below 2 °C. <i>Nature Climate Change</i> , 2013 , 3, 405-412	21.4	132
49	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
48	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
47	Climate policies can help resolve energy security and air pollution challenges. <i>Climatic Change</i> , 2013 , 119, 479-494	4.5	105
46	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
45	Fossil resource and energy security dynamics in conventional and carbon-constrained worlds. <i>Climatic Change</i> , 2014 , 123, 413-426	4.5	99
44	2 °C and SDGs: united they stand, divided they fall?. <i>Environmental Research Letters</i> , 2016 , 11, 034022	6.2	99
43	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

42	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
41	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
40	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
39	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
38	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
37	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. <i>Nature</i> , 2018 , 554, 229-233	50.4	66
36	Transport electrification: A key element for energy system transformation and climate stabilization. <i>Climatic Change</i> , 2014 , 123, 651-664	4.5	66
35	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. <i>Climatic Change</i> , 2020 , 162, 1805-1822	4.5	64
34	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
33	Policy trade-offs between climate mitigation and clean cook-stove access in South Asia. <i>Nature Energy</i> , 2016 , 1,	62.3	56
32	THE DISTRIBUTION OF THE MAJOR ECONOMIES' EFFORT IN THE DURBAN PLATFORM SCENARIOS. <i>Climate Change Economics</i> , 2013 , 04, 1340009	0.9	51
31	ENERGY INVESTMENTS UNDER CLIMATE POLICY: A COMPARISON OF GLOBAL MODELS. <i>Climate Change Economics</i> , 2013 , 04, 1340010	0.9	50
30	COVID-19 recovery funds dwarf clean energy investment needs. <i>Science</i> , 2020 , 370, 298-300	33.3	50
29	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
28	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
27	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
26	Air-pollution emission ranges consistent with the representative concentration pathways. <i>Nature Climate Change</i> , 2014 , 4, 446-450	21.4	41
25	Assessing the Feasibility of Global Long-Term Mitigation Scenarios. <i>Energies</i> , 2017 , 10, 89	3.1	37

24	Comparison and interactions between the long-term pursuit of energy independence and climate policies. <i>Nature Energy</i> , 2016 , 1,	62.3	36
23	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
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	Balancing clean water-climate change mitigation trade-offs. <i>Environmental Research Letters</i> , 2019 , 14, 014009	6.2	29
20	Future energy system challenges for Africa: Insights from Integrated Assessment Models. <i>Energy Policy</i> , 2015 , 86, 705-717	7.2	26
19	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
18	Mitigation choices impact carbon budget size compatible with low temperature goals. <i>Environmental Research Letters</i> , 2015 , 10, 075003	6.2	23
17	Energy Pathways for Sustainable Development 1205-1306		19
16	A MULTI-MODEL ANALYSIS OF THE REGIONAL AND SECTORAL ROLES OF BIOENERGY IN NEAR- AND LONG-TERM CO ₂ EMISSIONS REDUCTION. <i>Climate Change Economics</i> , 2013 , 04, 1340014	0.9	16
15	Interactions between social learning and technological learning in electric vehicle futures. <i>Environmental Research Letters</i> , 2018 , 13, 124004	6.2	15
14	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
13	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
12	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
11	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
10	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
9	Beyond Rio: Sustainable energy scenarios for the 21st century. <i>Natural Resources Forum</i> , 2012 , 36, 215-230		4
8	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
7	Reply to: Why fossil fuel producer subsidies matter. <i>Nature</i> , 2020 , 578, E5-E7	50.4	2

6	Simulating automakers' response to zero emissions vehicle regulation. <i>Transportation Research, Part D: Transport and Environment</i> , 2021 , 94, 102789	6.4	2
5	Intergovernmental Panel on Climate Change: Transparency and integrated assessment modeling. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021 , 12, e727	8.4	1
4	Deep decarbonization impacts on electric load shapes and peak demand. <i>Environmental Research Letters</i> , 2021 , 16, 094054	6.2	1
3	Technology Portfolios: Modelling Technological Uncertainty and Innovation Risks89-102		0
2	Demand Side Management: A Case for Disruptive Behaviour. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 47-59	0.4	
1	Application of experience curves and learning to other fields 2020 , 49-62		