

Adam Hawkes

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2260364/adam-hawkes-publications-by-citations.pdf>

Version: 2024-04-25

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.

129
papers

5,833
citations

34
h-index

75
g-index

136
ext. papers

7,574
ext. citations

8.7
avg, IF

6.64
L-index

#	Paper	IF	Citations
129	Future cost and performance of water electrolysis: An expert elicitation study. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30470-30492	6.7	730
128	The future cost of electrical energy storage based on experience rates. <i>Nature Energy</i> , 2017 , 2,	62.3	507
127	Energy systems modeling for twenty-first century energy challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 74-86	16.2	503
126	Hydrogen and fuel cell technologies for heating: A review. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2065-2083	6.7	407
125	Projecting the Future Levelized Cost of Electricity Storage Technologies. <i>Joule</i> , 2019 , 3, 81-100	27.8	245
124	Modelling high level system design and unit commitment for a microgrid. <i>Applied Energy</i> , 2009 , 86, 1253-1265	12.5	241
123	Cost-effective operating strategy for residential micro-combined heat and power. <i>Energy</i> , 2007 , 32, 711-723	7.3	219
122	How to decarbonise international shipping: Options for fuels, technologies and policies. <i>Energy Conversion and Management</i> , 2019 , 182, 72-88	10.6	190
121	A review of domestic heat pumps. <i>Energy and Environmental Science</i> , 2012 , 5, 9291	35.4	175
120	An assessment of CCS costs, barriers and potential. <i>Energy Strategy Reviews</i> , 2018 , 22, 61-81	9.8	154
119	Levelized cost of CO2 mitigation from hydrogen production routes. <i>Energy and Environmental Science</i> , 2019 , 12, 19-40	35.4	139
118	Estimating marginal CO2 emissions rates for national electricity systems. <i>Energy Policy</i> , 2010 , 38, 5977-5987	5.8	135
117	Fuel cells for micro-combined heat and power generation. <i>Energy and Environmental Science</i> , 2009 , 2, 729	35.4	130
116	An inter-model assessment of the role of direct air capture in deep mitigation pathways. <i>Nature Communications</i> , 2019 , 10, 3277	17.4	129
115	Impacts of temporal precision in optimisation modelling of micro-Combined Heat and Power. <i>Energy</i> , 2005 , 30, 1759-1779	7.9	104
114	Solid oxide fuel cell systems for residential micro-combined heat and power in the UK: Key economic drivers. <i>Journal of Power Sources</i> , 2005 , 149, 72-83	8.9	67
113	Solid oxide fuel cell micro combined heat and power system operating strategy: Options for provision of residential space and water heating. <i>Journal of Power Sources</i> , 2007 , 164, 260-271	8.9	66

112	Long-run marginal CO2 emissions factors in national electricity systems. <i>Applied Energy</i> , 2014 , 125, 197-205	7.2	63
111	Fuel cell micro-CHP techno-economics: Part 1 [Model concept and formulation. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9545-9557	6.7	63
110	The Natural Gas Supply Chain: The Importance of Methane and Carbon Dioxide Emissions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3-20	8.3	61
109	Temporally explicit and spatially resolved global offshore wind energy potentials. <i>Energy</i> , 2018 , 163, 766-781	7.9	57
108	Temporally-explicit and spatially-resolved global onshore wind energy potentials. <i>Energy</i> , 2017 , 131, 207-217	7.9	54
107	Techno-economic modelling of a solid oxide fuel cell stack for micro combined heat and power. <i>Journal of Power Sources</i> , 2006 , 156, 321-333	8.9	54
106	Fuel cell micro-CHP techno-economics: Part 2 [Model application to consider the economic and environmental impact of stack degradation. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9558-9569	6.7	52
105	Societal Transformations in Models for Energy and Climate Policy: The Ambitious Next Step. <i>One Earth</i> , 2019 , 1, 423-433	8.1	52
104	Methane emissions: choosing the right climate metric and time horizon. <i>Environmental Sciences: Processes and Impacts</i> , 2018 , 20, 1323-1339	4.3	51
103	Characterising the distribution of methane and carbon dioxide emissions from the natural gas supply chain. <i>Journal of Cleaner Production</i> , 2018 , 172, 2019-2032	10.3	49
102	Performance assessment of tariff-based air source heat pump load shifting in a UK detached dwelling featuring phase change-enhanced buffering. <i>Applied Thermal Engineering</i> , 2014 , 71, 809-820	5.8	48
101	Techno-economic assessment of biogas-fed solid oxide fuel cell combined heat and power system at industrial scale. <i>Applied Energy</i> , 2018 , 211, 689-704	10.7	48
100	Integration of biomass into urban energy systems for heat and power. Part I: An MILP based spatial optimization methodology. <i>Energy Conversion and Management</i> , 2014 , 83, 347-361	10.6	45
99	A greener gas grid: What are the options. <i>Energy Policy</i> , 2018 , 118, 291-297	7.2	44
98	Global levelised cost of electricity from offshore wind. <i>Energy</i> , 2019 , 189, 116357	7.9	42
97	Fair electricity transfer price and unit capacity selection for microgrids. <i>Energy Economics</i> , 2013 , 36, 581-593	8.3	40
96	Assessing the Feasibility of Global Long-Term Mitigation Scenarios. <i>Energies</i> , 2017 , 10, 89	3.1	37
95	A dynamic model of global natural gas supply. <i>Applied Energy</i> , 2018 , 218, 452-469	10.7	32

94	On policy instruments for support of micro combined heat and power. <i>Energy Policy</i> , 2008 , 36, 2973-2982	7.2	31
93	Estimation of inter-fuel substitution possibilities in China's transport industry using ridge regression. <i>Energy</i> , 2015 , 88, 260-267	7.9	30
92	An agent-based model for energy investment decisions in the residential sector. <i>Energy</i> , 2019 , 172, 752-768	7.9	29
91	Perspective of comprehensive and comprehensible multi-model energy and climate science in Europe. <i>Energy</i> , 2021 , 215, 119153	7.9	28
90	Spatially resolved model for studying decarbonisation pathways for heat supply and infrastructure trade-offs. <i>Applied Energy</i> , 2018 , 210, 1051-1072	10.7	26
89	The role of advanced demand-sector technologies and energy demand reduction in achieving ambitious carbon budgets. <i>Applied Energy</i> , 2019 , 238, 351-367	10.7	25
88	The carbon credentials of hydrogen gas networks and supply chains. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 1077-1088	16.2	24
87	Exploring the Feasibility of Low-Carbon Scenarios Using Historical Energy Transitions Analysis. <i>Energies</i> , 2017 , 10, 116	3.1	24
86	The appropriate use of reference scenarios in mitigation analysis. <i>Nature Climate Change</i> , 2020 , 10, 605-610	6.1	23
85	Long-term development of the industrial sector [Case study about electrification, fuel switching, and CCS in the USA. <i>Computers and Chemical Engineering</i> , 2020 , 133, 106602	4	22
84	Clustered spatially and temporally resolved global heat and cooling energy demand in the residential sector. <i>Applied Energy</i> , 2019 , 250, 48-62	10.7	20
83	The capacity credit of micro-combined heat and power. <i>Energy Policy</i> , 2008 , 36, 1457-1469	7.2	20
82	Life cycle environmental impacts of natural gas drivetrains used in UK road freighting and impacts to UK emission targets. <i>Science of the Total Environment</i> , 2019 , 674, 482-493	10.2	19
81	Assessing the impact of future greenhouse gas emissions from natural gas production. <i>Science of the Total Environment</i> , 2019 , 668, 1242-1258	10.2	19
80	The effect of spatial resolution on outcomes from energy systems modelling of heat decarbonisation. <i>Energy</i> , 2018 , 155, 339-350	7.9	19
79	The value of electricity and reserve services in low carbon electricity systems. <i>Applied Energy</i> , 2017 , 201, 111-123	10.7	17
78	A novel energy systems model to explore the role of land use and reforestation in achieving carbon mitigation targets: A Brazil case study. <i>Journal of Cleaner Production</i> , 2019 , 232, 796-821	10.3	17
77	The Contribution of Non-CO2 Greenhouse Gas Mitigation to Achieving Long-Term Temperature Goals. <i>Energies</i> , 2017 , 10, 602	3.1	16

76	Modelling the natural gas dynamics in the Southern Cone of Latin America. <i>Applied Energy</i> , 2017 , 201, 219-239	10.7	15
75	UK microgeneration. Part I: policy and behavioural aspects. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2009 , 162, 23-36	0.7	15
74	Key findings from the core North American scenarios in the EMF34 intermodel comparison. <i>Energy Policy</i> , 2020 , 144, 111599	7.2	15
73	A geographic information system-based global variable renewable potential assessment using spatially resolved simulation. <i>Energy</i> , 2020 , 193, 116630	7.9	14
72	Demand side flexibility from residential heating to absorb surplus renewables in low carbon futures. <i>Renewable Energy</i> , 2019 , 138, 598-609	8.1	13
71	Spatially-resolved urban energy systems model to study decarbonisation pathways for energy services in cities. <i>Applied Energy</i> , 2020 , 262, 114445	10.7	13
70	The role of energy storage in the uptake of renewable energy: A model comparison approach. <i>Energy Policy</i> , 2021 , 151, 112159	7.2	13
69	A two-step optimization model for quantifying the flexibility potential of power-to-heat systems in dwellings. <i>Applied Energy</i> , 2018 , 228, 215-228	10.7	13
68	Assessing domestic heat storage requirements for energy flexibility over varying timescales. <i>Applied Thermal Engineering</i> , 2018 , 136, 602-616	5.8	11
67	The impact of liquefied natural gas and storage on the EU natural gas infrastructure resilience. <i>Energy</i> , 2020 , 209, 118367	7.9	11
66	Impact of dynamic aspects on economics of fuel cell based micro co-generation in low carbon futures. <i>Energy</i> , 2018 , 155, 874-886	7.9	11
65	How can LNG-fuelled ships meet decarbonisation targets? An environmental and economic analysis. <i>Energy</i> , 2021 , 227, 120462	7.9	11
64	Simulating the game-theoretic market equilibrium and contract-driven investment in global gas trade using an agent-based method. <i>Energy</i> , 2018 , 160, 820-834	7.9	10
63	UK microgeneration. Part II: technology overviews. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2010 , 163, 143-165	0.7	10
62	Modelling cost-effective pathways for natural gas infrastructure: A southern Brazil case study. <i>Applied Energy</i> , 2019 , 255, 113799	10.7	9
61	The Impact of Shale Gas on the Cost and Feasibility of Meeting Climate Targets: A Global Energy System Model Analysis and an Exploration of Uncertainties. <i>Energies</i> , 2017 , 10, 158	3.1	9
60	Role of fuel cell based micro-cogeneration in low carbon heating. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011 , 225, 198-207	1.6	9
59	Private landlords and energy efficiency: Evidence for policymakers from a large-scale study in the United Kingdom. <i>Energy Policy</i> , 2020 , 142, 111446	7.2	8

58	Going smart, staying confused: Perceptions and use of smart thermostats in British homes. <i>Energy Research and Social Science</i> , 2019 , 57, 101228	7.7	8
57	A multi-model analysis of long-term emissions and warming implications of current mitigation efforts. <i>Nature Climate Change</i> , 2021 , 11, 1055-1062	21.4	8
56	Challenges in the harmonisation of global integrated assessment models: A comprehensive methodology to reduce model response heterogeneity. <i>Science of the Total Environment</i> , 2021 , 783, 146861	10.2	8
55	Biomass supply chain optimisation for Organosolv-based biorefineries. <i>Bioresource Technology</i> , 2014 , 159, 387-96	11	7
54	The Techno-Economics of Small-Scale Residential Heating in Low Carbon Futures. <i>Energies</i> , 2017 , 10, 1915	3.1	7
53	Supply Chain Mixed Integer Linear Program Model Integrating a Biorefining Technology Superstructure. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9849-9865	3.9	7
52	Where is the EU headed given its current climate policy? A stakeholder-driven model inter-comparison. <i>Science of the Total Environment</i> , 2021 , 793, 148549	10.2	7
51	Asset stranding in natural gas export facilities: An agent-based simulation. <i>Energy Policy</i> , 2019 , 132, 132-155	15.5	6
50	Fuel cell systems for small and micro combined heat and power (CHP) applications 2011 , 233-261		6
49	Reply to "High energy and materials requirement for direct air capture calls for further analysis and R&D". <i>Nature Communications</i> , 2020 , 11, 3286	17.4	6
48	The impact of demand uncertainties and China-US natural gas tariff on global gas trade. <i>Energy</i> , 2019 , 175, 205-217	7.9	5
47	Agent-based scenarios comparison for assessing fuel-switching investment in long-term energy transitions of the India's industry sector. <i>Applied Energy</i> , 2020 , 274, 115295	10.7	5
46	An agent-based modelling approach to simulate the investment decision of industrial enterprises. <i>Journal of Cleaner Production</i> , 2020 , 267, 121835	10.3	5
45	Modelling the technical potential of bioelectricity production under land use constraints: A multi-region Brazil case study. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 123, 109765	16.2	5
44	Design of fuel-cell micro-cogeneration systems through modeling and optimization. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2012 , 1, 181-193	4.7	5
43	Optimal mix of climate-related energy in global electricity systems. <i>Renewable Energy</i> , 2020 , 160, 955-968	11	5
42	Low-cost emissions cuts in container shipping: Thinking inside the box. <i>Transportation Research, Part D: Transport and Environment</i> , 2021 , 94, 102815	6.4	5
41	Confronting mitigation deterrence in low-carbon scenarios. <i>Environmental Research Letters</i> , 2021 , 16, 064099	6.2	5

40	A Simple Assessment of Housing Retrofit Policies for the UK: What Should Succeed the Energy Company Obligation?. <i>Energies</i> , 2018 , 11, 2070	3.1	5
39	Results from Industrial Size Biogas-Fed SOFC Plant (DEMOSOFC Project). <i>ECS Transactions</i> , 2019 , 91, 107-116	1	4
38	Optimal selection of generators for a microgrid under uncertainty 2010 ,		4
37	Techno-economic assessment of small and micro combined heat and power (CHP) systems 2011 , 17-41		4
36	Assessment of Greenhouse Gases and Pollutant Emissions in the Road Freight Transport Sector: A Case Study for S Paulo State, Brazil. <i>Energies</i> , 2020 , 13, 5433	3.1	4
35	Organic waste to energy: Resource potential and barriers to uptake in Chile. <i>Sustainable Production and Consumption</i> , 2021 , 28, 1522-1537	8.2	4
34	Can Carbon Capture and Storage Unlock Unburnable Carbon?. <i>Energy Procedia</i> , 2017 , 114, 7504-7515	2.3	3
33	Decarbonisation of the Industrial Sector by means of Fuel Switching, Electrification and CCS. <i>Computer Aided Chemical Engineering</i> , 2018 , 1311-1316	0.6	3
32	Feasibility of domestic micro combined heat and power units with Real Time Pricing 2010 ,		3
31	Cost reductions in renewables can substantially erode the value of carbon capture and storage in mitigation pathways. <i>One Earth</i> , 2021 , 4, 1588-1601	8.1	3
30	North American energy system responses to natural gas price shocks. <i>Energy Policy</i> , 2021 , 149, 112046	7.2	3
29	Impact of Drilling Costs on the US Gas Industry: Prospects for Automation. <i>Energies</i> , 2018 , 11, 2241	3.1	3
28	An Optimisation Study on Integrating and Incentivising Thermal Energy Storage (TES) in a Dwelling Energy System. <i>Energies</i> , 2018 , 11, 1095	3.1	3
27	Thermodynamic and thermal comfort optimisation of a coastal social house considering the influence of the thermal breeze. <i>Building and Environment</i> , 2019 , 155, 224-246	6.5	2
26	Spatially Resolved Optimization for Studying the Role of Hydrogen for Heat Decarbonization Pathways. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5835-5842	8.3	2
25	Open Sugarcane Process Simulation Platform. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1819-1824	4.6	2
24	Carbon Sequestration Potential from Large-Scale Reforestation and Sugarcane Expansion on Abandoned Agricultural Lands in Brazil. <i>Polytechnica</i> , 2019 , 2, 9-25	1	2
23	What is the future potential of CCS in Brazil? An expert elicitation study on the role of CCS in the country. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 112, 103503	4.2	2

22	The quantification of methane emissions and assessment of emissions data for the largest natural gas supply chains. <i>Journal of Cleaner Production</i> , 2021 , 320, 128856	10.3	2
21	Strategic natural gas storage coordination among EU member states in response to disruption in the trans Austria gas pipeline: A stochastic approach to solidarity. <i>Energy</i> , 2021 , 235, 121426	7.9	2
20	Hydrogen supply chain optimisation for the transport sector [Focus on hydrogen purity and purification requirements. <i>Applied Energy</i> , 2022 , 305, 117740	10.7	2
19	A framework for modelling investment decisions in gas infrastructures. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 259-264	0.6	1
18	An optimization method to estimate the SOFC market in waste water treatment. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 415-420	0.6	1
17	The role of CCS and biomass-based processes in the refinery sector for different carbon scenarios. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1365-1370	0.6	1
16	Methane detection and quantification in the upstream oil and gas sector: the role of satellites in emissions detection, reconciling and reporting. <i>Environmental Science Atmospheres</i> ,		1
15	The policy implications of an uncertain carbon dioxide removal potential. <i>Joule</i> , 2021 , 5, 2593-2605	27.8	1
14	Pathways to commercialisation of biogas fuelled solid oxide fuel cells in European wastewater treatment plants. <i>Applied Energy</i> , 2021 , 282, 116127	10.7	1
13	A bottom-up appraisal of the technically installable capacity of biogas-based solid oxide fuel cells for self power generation in wastewater treatment plants. <i>Journal of Environmental Management</i> , 2021 , 279, 111753	7.9	1
12	Geospatial and temporal estimation of climatic, end-use demands, and socioeconomic drivers of energy consumption in the residential sector in Ecuador. <i>Energy Conversion and Management</i> , 2022 , 261, 115629	10.6	1
11	Analysis of power production and emission reduction through the use of biogas and carbon capture and storage. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 2635-2640	0.6	0
10	Translating observed household energy behavior to agent-based technology choices in an integrated modeling framework.. <i>IScience</i> , 2022 , 25, 103905	6.1	0
9	Solidarity measures: Assessment of strategic gas storage on EU regional risk groups natural gas supply resilience. <i>Applied Energy</i> , 2022 , 308, 118356	10.7	0
8	Modelling Future Agricultural Mechanisation of Major Crops in China: An Assessment of Energy Demand, Land Use and Emissions. <i>Energies</i> , 2020 , 13, 6636	3.1	0
7	Life cycle assessment of negative emission technologies for effectiveness in carbon sequestration. <i>Procedia CIRP</i> , 2022 , 105, 357-361	1.8	0
6	Hydrogen emissions from the hydrogen value chain-emissions profile and impact to global warming.. <i>Science of the Total Environment</i> , 2022 , 154624	10.2	0
5	Decision making to book oil reserves for different Brazilian fiscal agreements using dependence structure. <i>Energy Strategy Reviews</i> , 2019 , 26, 100377	9.8	

4	An optimisation model to determine the capacity of a distributed energy resource to contract with a balancing services aggregator. <i>Applied Energy</i> , 2022 , 306, 117984	10.7
3	Techno-economic assessment of the effects of biogas rate fluctuations on industrial applications of solid-oxide fuel cells. <i>Computer Aided Chemical Engineering</i> , 2017 , 895-900	0.6
2	A Simulator to Determine the Evolution of Disparities in Food Consumption between Socio-Economic Groups: A Brazilian Case Study. <i>Sustainability</i> , 2020 , 12, 6132	3.6
1	A Multi-period Mixed Integer Linear Program for Assessing the Benefits of Power to Heat Storage in a Dwelling Energy System. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1451-1456	0.6