

Adam Hawkes

List of Publications by Year in Descending Order

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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.

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	Translating observed household energy behavior to agent-based technology choices in an integrated modeling framework.. <i>IScience</i> , 2022 , 25, 103905	6.1	0
128	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
127	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	
126	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
125	Life cycle assessment of negative emission technologies for effectiveness in carbon sequestration. <i>Procedia CIRP</i> , 2022 , 105, 357-361	1.8	0
124	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
123	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
122	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
121	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
120	The policy implications of an uncertain carbon dioxide removal potential. <i>Joule</i> , 2021 , 5, 2593-2605	27.8	1
119	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
118	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
117	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
116	Confronting mitigation deterrence in low-carbon scenarios. <i>Environmental Research Letters</i> , 2021 , 16, 064099	6.2	5
115	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
114	North American energy system responses to natural gas price shocks. <i>Energy Policy</i> , 2021 , 149, 112046	7.2	3
113	Perspective of comprehensive and comprehensible multi-model energy and climate science in Europe. <i>Energy</i> , 2021 , 215, 119153	7.9	28

112	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
111	How can LNG-fuelled ships meet decarbonisation targets? An environmental and economic analysis. <i>Energy</i> , 2021 , 227, 120462	7.9	11
110	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
109	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
108	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
107	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
106	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
105	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
104	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
103	The appropriate use of reference scenarios in mitigation analysis. <i>Nature Climate Change</i> , 2020 , 10, 605-610	10.4	23
102	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
101	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
100	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
99	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
98	A geographic information system-based global variable renewable potential assessment using spatially resolved simulation. <i>Energy</i> , 2020 , 193, 116630	7.9	14
97	Key findings from the core North American scenarios in the EMF34 intermodel comparison. <i>Energy Policy</i> , 2020 , 144, 111599	7.2	15
96	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
95	Optimal mix of climate-related energy in global electricity systems. <i>Renewable Energy</i> , 2020 , 160, 955-963	10.3	5

94	The impact of liquefied natural gas and storage on the EU natural gas infrastructure resilience. <i>Energy</i> , 2020 , 209, 118367	7.9	11
93	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
92	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	
91	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
90	Results from Industrial Size Biogas-Fed SOFC Plant (DEMOSOFC Project). <i>ECS Transactions</i> , 2019 , 91, 107-116	1	4
89	Modelling cost-effective pathways for natural gas infrastructure: A southern Brazil case study. <i>Applied Energy</i> , 2019 , 255, 113799	10.7	9
88	Decision making to book oil reserves for different Brazilian fiscal agreements using dependence structure. <i>Energy Strategy Reviews</i> , 2019 , 26, 100377	9.8	
87	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
86	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
85	Levelized cost of CO2 mitigation from hydrogen production routes. <i>Energy and Environmental Science</i> , 2019 , 12, 19-40	35.4	139
84	Asset stranding in natural gas export facilities: An agent-based simulation. <i>Energy Policy</i> , 2019 , 132, 132-155	4.55	6
83	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
82	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
81	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
80	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
79	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
78	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
77	An agent-based model for energy investment decisions in the residential sector. <i>Energy</i> , 2019 , 172, 752-768	7.68	29

76	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
75	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
74	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
73	Global levelised cost of electricity from offshore wind. <i>Energy</i> , 2019 , 189, 116357	7.9	42
72	Societal Transformations in Models for Energy and Climate Policy: The Ambitious Next Step. <i>One Earth</i> , 2019 , 1, 423-433	8.1	52
71	How to decarbonise international shipping: Options for fuels, technologies and policies. <i>Energy Conversion and Management</i> , 2019 , 182, 72-88	10.6	190
70	Projecting the Future Levelized Cost of Electricity Storage Technologies. <i>Joule</i> , 2019 , 3, 81-100	27.8	245
69	A greener gas grid: What are the options. <i>Energy Policy</i> , 2018 , 118, 291-297	7.2	44
68	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
67	A dynamic model of global natural gas supply. <i>Applied Energy</i> , 2018 , 218, 452-469	10.7	32
66	Assessing domestic heat storage requirements for energy flexibility over varying timescales. <i>Applied Thermal Engineering</i> , 2018 , 136, 602-616	5.8	11
65	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
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	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
62	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
61	Temporally explicit and spatially resolved global offshore wind energy potentials. <i>Energy</i> , 2018 , 163, 766-781	7.9	57
60	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
59	Open Sugarcane Process Simulation Platform. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1819-1824	0.6	2

58	An assessment of CCS costs, barriers and potential. <i>Energy Strategy Reviews</i> , 2018 , 22, 61-81	9.8	154
57	The carbon credentials of hydrogen gas networks and supply chains. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 1077-1088	16.2	24
56	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
55	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
54	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
53	Impact of Drilling Costs on the US Gas Industry: Prospects for Automation. <i>Energies</i> , 2018 , 11, 2241	3.1	3
52	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	
51	Methane emissions: choosing the right climate metric and time horizon. <i>Environmental Sciences: Processes and Impacts</i> , 2018 , 20, 1323-1339	4.3	51
50	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
49	The effect of spatial resolution on outcomes from energy systems modelling of heat decarbonisation. <i>Energy</i> , 2018 , 155, 339-350	7.9	19
48	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
47	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
46	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
45	Temporally-explicit and spatially-resolved global onshore wind energy potentials. <i>Energy</i> , 2017 , 131, 207-217	7.9	54
44	The value of electricity and reserve services in low carbon electricity systems. <i>Applied Energy</i> , 2017 , 201, 111-123	10.7	17
43	Modelling the natural gas dynamics in the Southern Cone of Latin America. <i>Applied Energy</i> , 2017 , 201, 219-239	10.7	15
42	Can Carbon Capture and Storage Unlock Unburnable Carbon? <i>Energy Procedia</i> , 2017 , 114, 7504-7515	2.3	3
41	The Impact of Shale Gas on the Cost and Feasibility of Meeting Climate Targets? Global Energy System Model Analysis and an Exploration of Uncertainties. <i>Energies</i> , 2017 , 10, 158	3.1	9

40	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
39	The future cost of electrical energy storage based on experience rates. <i>Nature Energy</i> , 2017 , 2,	62.3	507
38	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
37	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
36	Assessing the Feasibility of Global Long-Term Mitigation Scenarios. <i>Energies</i> , 2017 , 10, 89	3.1	37
35	Exploring the Feasibility of Low-Carbon Scenarios Using Historical Energy Transitions Analysis. <i>Energies</i> , 2017 , 10, 116	3.1	24
34	The Contribution of Non-CO2 Greenhouse Gas Mitigation to Achieving Long-Term Temperature Goals. <i>Energies</i> , 2017 , 10, 602	3.1	16
33	The Techno-Economics of Small-Scale Residential Heating in Low Carbon Futures. <i>Energies</i> , 2017 , 10, 1915	3.1	7
32	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	
31	A framework for modelling investment decisions in gas infrastructures. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 259-264	0.6	1
30	Hydrogen and fuel cell technologies for heating: A review. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2065-2083	6.7	407
29	Estimation of inter-fuel substitution possibilities in China's transport industry using ridge regression. <i>Energy</i> , 2015 , 88, 260-267	7.9	30
28	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
27	Biomass supply chain optimisation for Organosolv-based biorefineries. <i>Bioresource Technology</i> , 2014 , 159, 387-96	11	7
26	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
25	Long-run marginal CO2 emissions factors in national electricity systems. <i>Applied Energy</i> , 2014 , 125, 197-205	7	63
24	Energy systems modeling for twenty-first century energy challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 74-86	16.2	503
23	Fair electricity transfer price and unit capacity selection for microgrids. <i>Energy Economics</i> , 2013 , 36, 581-593		40

22	A review of domestic heat pumps. <i>Energy and Environmental Science</i> , 2012 , 5, 9291	35.4	175
21	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
20	Fuel cell systems for small and micro combined heat and power (CHP) applications 2011 , 233-261		6
19	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
18	Techno-economic assessment of small and micro combined heat and power (CHP) systems 2011 , 17-41		4
17	Optimal selection of generators for a microgrid under uncertainty 2010 ,		4
16	Feasibility of domestic micro combined heat and power units with Real Time Pricing 2010 ,		3
15	UK microgeneration. Part II: technology overviews. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2010 , 163, 143-165	0.7	10
14	Estimating marginal CO2 emissions rates for national electricity systems. <i>Energy Policy</i> , 2010 , 38, 5977-5987	9.7	135
13	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
12	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
11	Modelling high level system design and unit commitment for a microgrid. <i>Applied Energy</i> , 2009 , 86, 1253-1265	12.65	241
10	Fuel cells for micro-combined heat and power generation. <i>Energy and Environmental Science</i> , 2009 , 2, 729	35.4	130
9	UK microgeneration. Part I: policy and behavioural aspects. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2009 , 162, 23-36	0.7	15
8	The capacity credit of micro-combined heat and power. <i>Energy Policy</i> , 2008 , 36, 1457-1469	7.2	20
7	On policy instruments for support of micro combined heat and power. <i>Energy Policy</i> , 2008 , 36, 2973-2982	7.2	31
6	Cost-effective operating strategy for residential micro-combined heat and power. <i>Energy</i> , 2007 , 32, 711-723	7.33	219
5	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

4	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
3	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
2	Impacts of temporal precision in optimisation modelling of micro-Combined Heat and Power. <i>Energy</i> , 2005 , 30, 1759-1779	7.9	104
1	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