Brian O Gallachoir

List of Publications by Citations

Source: https://exaly.com/author-pdf/5558211/brian-o-gallachoir-publications-by-citations.pdf

Version: 2024-04-28

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.

60 115 31 3,993 h-index g-index citations papers 6.03 4,859 115 7.2 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
115	Techno-economic review of existing and new pumped hydro energy storage plant. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 1293-1302	16.2	379
114	The role of hydrogen in low carbon energy futures A review of existing perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 3027-3045	16.2	223
113	Impacts of Electric Vehicle charging under electricity market operations. <i>Applied Energy</i> , 2013 , 101, 93-	100.7	190
112	A strategic review of electricity systems models. <i>Energy</i> , 2010 , 35, 4522-4530	7.9	179
111	Soft-linking of a power systems model to an energy systems model. <i>Energy</i> , 2012 , 42, 303-312	7.9	158
110	Energy access scenarios to 2030 for the power sector in sub-Saharan Africa. <i>Utilities Policy</i> , 2012 , 20, 1-16	3.3	157
109	Incorporating flexibility requirements into long-term energy system models IA case study on high levels of renewable electricity penetration in Ireland. <i>Applied Energy</i> , 2014 , 135, 600-615	10.7	140
108	The impact of sub-hourly modelling in power systems with significant levels of renewable generation. <i>Applied Energy</i> , 2014 , 113, 152-158	10.7	132
107	Integrating short term variations of the power system into integrated energy system models: A methodological review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 76, 839-856	16.2	122
106	Energy and emissions forecast of China over a long-time horizon. <i>Energy</i> , 2011 , 36, 1-11	7.9	101
105	A perspective on the potential role of renewable gas in a smart energy island system. <i>Renewable Energy</i> , 2015 , 78, 648-656	8.1	95
104	Impacts of Inter-annual Wind and Solar Variations on the European Power System. Joule, 2018, 2, 2076-	2098	81
103	Modelling the impacts of challenging 2050 European climate mitigation targets on Ireland energy system. <i>Energy Policy</i> , 2013 , 53, 169-189	7.2	81
102	Coal use for residential heating: Patterns, health implications and lessons learned. <i>Energy for Sustainable Development</i> , 2017 , 40, 19-30	5.4	73
101	A review of the role of distributed generation (DG) in future electricity systems. <i>Energy</i> , 2018 , 163, 822-	-836	69
100	A review of approaches to uncertainty assessment in energy system optimization models. <i>Energy Strategy Reviews</i> , 2018 , 21, 204-217	9.8	66
99	The role of hydrogen in high wind energy penetration electricity systems: The Irish case. <i>Renewable Energy</i> , 2004 , 29, 471-489	8.1	65

(2011-2010)

98	Can we meet targets for biofuels and renewable energy in transport given the constraints imposed by policy in agriculture and energy?. <i>Journal of Cleaner Production</i> , 2010 , 18, 1671-1685	10.3	62	
97	Incorporating travel behaviour and travel time into TIMES energy system models. <i>Applied Energy</i> , 2014 , 135, 429-439	10.7	59	
96	Adding value to EU energy policy analysis using a multi-model approach with an EU-28 electricity dispatch model. <i>Energy</i> , 2017 , 130, 433-447	7.9	50	
95	Addressing the technical and market challenges to high wind power integration in Ireland. Renewable and Sustainable Energy Reviews, 2013 , 19, 692-703	16.2	50	
94	The long haul towards decarbonising road freight [A global assessment to 2050. <i>Applied Energy</i> , 2018 , 216, 678-693	10.7	48	
93	Long-term energy models: Principles, characteristics, focus, and limitations. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013 , 2, 158-177	4.7	48	
92	Modelling the impacts of challenging 2020 non-ETS GHG emissions reduction targets on Ireland?s energy system. <i>Energy Policy</i> , 2013 , 62, 1438-1452	7.2	44	
91	An integrated gas and electricity model of the EU energy system to examine supply interruptions. <i>Applied Energy</i> , 2017 , 193, 479-490	10.7	43	
90	Supporting security and adequacy in future energy systems: The need to enhance long-term energy system models to better treat issues related to variability. <i>International Journal of Energy Research</i> , 2015 , 39, 377-396	4.5	40	
89	Fossil fuel and CO2 emissions savings on a high renewable electricity system IA single year case study for Ireland. <i>Energy Policy</i> , 2015 , 83, 151-164	7.2	38	
88	Quantifying stranding risk for fossil fuel assets and implications for renewable energy investment: A review of the literature. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 116, 109402	16.2	37	
87	Derivation of Intertemporal Targets for Large Pumped Hydro Energy Storage With Stochastic Optimization. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2147-2155	7	35	
86	Financial incentives to mobilise local citizens as investors in low-carbon technologies: A systematic literature review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 534-547	16.2	33	
85	Modelling the economic impacts of 500MW of wave power in Ireland. <i>Energy Policy</i> , 2012 , 45, 614-627	7.2	32	
84	Improved modelling of thermal energy savings potential in the existing residential stock using a newly available data source. <i>Energy</i> , 2015 , 90, 759-767	7.9	31	
83	Modelling the impacts of building regulations and a property bubble on residential space and water heating. <i>Energy and Buildings</i> , 2011 , 43, 166-178	7	31	
82	How private car purchasing trends offset efficiency gains and the successful energy policy response. <i>Energy Policy</i> , 2009 , 37, 3790-3802	7.2	30	
81	Wind turbine availability: Should it be time or energy based? IA case study in Ireland. <i>Renewable Energy</i> , 2011 , 36, 2967-2971	8.1	30	

80	Economic modelling of price support mechanisms for renewable energy: Case study on Ireland. <i>Energy Policy</i> , 2007 , 35, 1172-1185	7.2	30
79	Modelling private car energy demand using a technological car stock model. <i>Transportation Research, Part D: Transport and Environment</i> , 2011 , 16, 93-101	6.4	29
78	Modelling future private car energy demand in Ireland. Energy Policy, 2011, 39, 7815-7824	7.2	29
77	Development of a modelling framework in response to new European energy-efficiency regulatory obligations: The Irish experience. <i>Energy Policy</i> , 2009 , 37, 5363-5375	7.2	29
76	Building a wave energy policy focusing on innovation, manufacturing and deployment. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 2339-2358	16.2	29
75	Decarbonizing Chinal iron and steel industry from the supply and demand sides for carbon neutrality. <i>Applied Energy</i> , 2021 , 298, 117209	10.7	29
74	Quantifying the impacts of national renewable electricity ambitions using a NorthWest European electricity market model. <i>Renewable Energy</i> , 2015 , 80, 604-609	8.1	28
73	A comprehensive review on the benefits and challenges of global power grids and intercontinental interconnectors. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 107, 274-287	16.2	27
72	Burning peat in Ireland: An electricity market dispatch perspective. <i>Energy Policy</i> , 2009 , 37, 3035-3042	7.2	27
71	Using indicators to profile energy consumption and to inform energy policy in a university acase study in Ireland. <i>Energy and Buildings</i> , 2007 , 39, 913-922	7	27
70	Co-benefits? Not always: Quantifying the negative effect of a CO2-reducing car taxation policy on NO emissions. <i>Energy Policy</i> , 2013 , 63, 1151-1159	7.2	26
69	Decomposition analysis of gas consumption in the residential sector in Ireland. <i>Energy Policy</i> , 2012 , 42, 19-36	7.2	25
68	Future energy and emissions policy scenarios in Ireland for private car transport. <i>Energy Policy</i> , 2012 , 51, 172-183	7.2	25
67	The combined role of policy and incentives in promoting cost efficient decarbonisation of energy: A case study for biomethane. <i>Journal of Cleaner Production</i> , 2019 , 219, 278-290	10.3	23
66	Energy security assessment methods: Quantifying the security co-benefits of decarbonising the Irish Energy System. <i>Energy Strategy Reviews</i> , 2017 , 15, 72-88	9.8	22
65	Investigating the energy transition to a coal free residential sector in Kazakhstan using a regionally disaggregated energy systems model. <i>Journal of Cleaner Production</i> , 2018 , 196, 1532-1548	10.3	22
64	Energy Security Analysis: The case of constrained oil supply for Ireland. <i>Energy Policy</i> , 2014 , 66, 312-325	7.2	22
63	Monitoring energy efficiency trends in European industry: Which top-down method should be used?. <i>Energy Policy</i> , 2010 , 38, 6910-6918	7.2	22

(2016-2020)

62	Least cost energy system pathways towards 100% renewable energy in Ireland by 2050. <i>Energy</i> , 2020 , 207, 118264	7.9	20	
61	Zero carbon energy system pathways for Ireland consistent with the Paris Agreement. <i>Climate Policy</i> , 2019 , 19, 30-42	5.3	20	
60	LEAPs and Bounds Energy Demand and Constraint Optimised Model of the Irish Energy System. <i>Energy Efficiency</i> , 2014 , 7, 441-466	3	19	
59	The Role of Bioenergy in Ireland Low Carbon Future IIs it Sustainable?. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2015 , 3, 196-216	1.9	19	
58	Improvements in the representation of behavior in integrated energy and transport models. <i>International Journal of Sustainable Transportation</i> , 2019 , 13, 294-313	3.6	18	
57	Modelling the impact of EVs on electricity generation, costs and CO2 emissions. <i>Energy Policy</i> , 2013 , 61, 230-237	7.2	18	
56	Modelling HGV freight transport energy demand in Ireland and the impacts of the property construction bubble. <i>Energy</i> , 2013 , 50, 245-251	7.9	16	
55	Improving energy savings from a residential retrofit policy: A new model to inform better retrofit decisions. <i>Energy and Buildings</i> , 2020 , 209, 109656	7	16	
54	Planning the European power sector transformation: The REmap modelling framework and its insights. <i>Energy Strategy Reviews</i> , 2018 , 22, 147-165	9.8	16	
53	A 100 year review of electricity policy in Ireland (1916\(\textit{\pi}\)015). Energy Policy, 2017, 105, 67-79	7.2	15	
52	From technology pathways to policy roadmaps to enabling measures IA multi-model approach. <i>Energy</i> , 2017 , 138, 1030-1041	7.9	14	
51	Comparing ODEX with LMDI to measure energy efficiency trends. <i>Energy Efficiency</i> , 2010 , 3, 317-329	3	14	
50	Energizing local communities. What motivates Irish citizens to invest in distributed renewables?. <i>Energy Research and Social Science</i> , 2019 , 48, 177-188	7.7	14	
49	Ex-post decomposition analysis of passenger car energy demand and associated CO 2 emissions. <i>Transportation Research, Part D: Transport and Environment</i> , 2018 , 59, 400-416	6.4	13	
48	Vehicle tax policies and new passenger car CO2 performance in EU member states. <i>Climate Policy</i> , 2018 , 18, 396-412	5.3	12	
47	The cost of electrifying private transport Evidence from an empirical consumer choice model of Ireland and Denmark. <i>Transportation Research, Part D: Transport and Environment</i> , 2018 , 62, 584-603	6.4	12	
46	A review of spatial resolution and regionalisation in national-scale energy systems optimisation models. <i>Energy Strategy Reviews</i> , 2021 , 37, 100702	9.8	12	
45	Integrating agriculture and energy to assess GHG emissions reduction: a methodological approach. <i>Climate Policy</i> , 2016 , 16, 215-236	5.3	11	

44	Electric Vehicles and energy storage 🖟 case study on Ireland 2009 ,		11
43	Technology interdependency in the United Kingdom's low carbon energy transition. <i>Energy Strategy Reviews</i> , 2019 , 24, 314-330	9.8	10
42	Analysis of electric vehicle charging using the traditional generation expansion planning analysis tool WASP-IV. <i>Journal of Modern Power Systems and Clean Energy</i> , 2015 , 3, 240-248	4	10
41	Quantifying the savings of an industry energy efficiency programme. <i>Energy Efficiency</i> , 2012 , 5, 211-224	13	10
40	Is there a future for the gas network in a low carbon energy system?. Energy Policy, 2019 , 126, 480-493	7.2	9
39	High performance computing for energy system optimization models: Enhancing the energy policy tool kit. <i>Energy Policy</i> , 2019 , 128, 66-74	7.2	9
38	High resolution global spatiotemporal assessment of rooftop solar photovoltaics potential for renewable electricity generation. <i>Nature Communications</i> , 2021 , 12, 5738	17.4	8
37	Regime-based transition intermediaries at the grassroots for community energy initiatives. <i>Energy Research and Social Science</i> , 2021 , 74, 101950	7.7	8
36	Techno-economic data for a multi-model approach to decarbonisation of the Irish private car sector. <i>Data in Brief</i> , 2017 , 15, 922-932	1.2	7
35	A new hybrid approach for evaluating technology risks and opportunities in the energy transition in Ireland. <i>Environmental Innovation and Societal Transitions</i> , 2020 , 35, 429-444	7.6	7
34	Identifying decarbonisation opportunities using marginal abatement cost curves and energy system scenario ensembles. <i>Applied Energy</i> , 2020 , 276, 115456	10.7	7
33	Energy-intensive manufacturing sectors in China: policy priorities for achieving climate mitigation and energy conservation targets. <i>Climate Policy</i> , 2019 , 19, 598-610	5.3	7
32	Spatial Planning of Electric Vehicle Infrastructure for Belo Horizonte, Brazil. <i>Journal of Advanced Transportation</i> , 2018 , 2018, 1-16	1.9	7
31	A comparative analysis of substituting imported gas and coal for electricity with renewables [An input-output simulation. <i>Sustainable Energy Technologies and Assessments</i> , 2018 , 30, 1-10	4.7	7
30	Comparing primary energy attributed to renewable energy with primary energy equivalent to determine carbon abatement in a national context. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006 , 41, 923-37	2.3	6
29	Modal Shift of Passenger Transport in a TIMES Model: Application to Ireland and California. <i>Lecture Notes in Energy</i> , 2015 , 279-291	0.4	6
28	Soft-Linking Exercises Between TIMES, Power System Models and Housing Stock Models. <i>Lecture Notes in Energy</i> , 2015 , 315-331	0.4	6
27	Biofuels for Aviation 2017 , 79-88		4

(2015-2015)

26	Economic Impacts of Future Changes in the Energy System © lobal Perspectives. <i>Lecture Notes in Energy</i> , 2015 , 333-358	0.4	4
25	Economic Impacts of Future Changes in the Energy SystemNational Perspectives. <i>Lecture Notes in Energy</i> , 2015 , 359-387	0.4	4
24	Building and Calibrating a Country-Level Detailed Global Electricity Model Based on Public Data. <i>Energy Strategy Reviews</i> , 2021 , 33, 100592	9.8	4
23	Participatory methods in energy system modelling and planning IA review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111504	16.2	4
22	Long-Term Climate Change Mitigation in Kazakhstan in a Post Paris Agreement Context. <i>Lecture Notes in Energy</i> , 2018 , 297-314	0.4	3
21	Recession or retrofit: An ex-post evaluation of Irish residential space heating trends. <i>Energy and Buildings</i> , 2019 , 205, 109474	7	3
20	Impact on Electricity Markets: Merit Order Effect of Renewable Energies 2017, 105-118		3
19	How and why we travel [Mobility demand and emissions from passenger transport. <i>Transportation Research, Part D: Transport and Environment</i> , 2022 , 104, 103195	6.4	3
18	Mapping emergent public engagement in societal transitions: a scoping review <i>Energy, Sustainability and Society</i> , 2022 , 12, 2	3.9	3
17	Energy Policies Influenced by Energy Systems Modelling@ase Studies in UK, Ireland, Portugal and G8. <i>Lecture Notes in Energy</i> , 2015 , 15-41	0.4	3
16	A Global Renewable Energy Roadmap: Comparing Energy Systems Models with IRENA® REmap 2030 Project. <i>Lecture Notes in Energy</i> , 2015 , 43-67	0.4	3
15	Reflecting on a collaborative approach to a regional sustainability transition: Dingle Peninsula 2030. <i>Reflective Practice</i> , 2021 , 22, 416-430	0.9	3
14	Participatory network mapping of an emergent social network for a regional transition to a low-carbon and just society on the Dingle Peninsula. <i>Local Environment</i> ,1-15	3.3	3
13	Suitable Locations for Electric Vehicles Charging Infrastructure in Rio De Janeiro, Brazil 2017 ,		2
12	Gas Security of Supply in the European Union 2017 , 67-78		2
11	Residential stock data and dataset on energy efficiency characteristics of residential building fabrics in Ireland. <i>Data in Brief</i> , 2020 , 29, 105247	1.2	1
10	Assessing global climate change mitigation scenarios from a power system perspective using a novel multi-model framework. <i>Environmental Modelling and Software</i> , 2022 , 150, 105336	5.2	1
9	Introduction: Energy Systems Modelling for Decision-Making. <i>Lecture Notes in Energy</i> , 2015 , 1-12	0.4	1

8	Decarbonisation of passenger light-duty vehicles using spatially resolved TIMES-Ireland Model. <i>Applied Energy</i> , 2022 , 316, 119078	10.7	1
7	Doing things differently: Bridging community concerns and energy system modelling with a transdisciplinary approach in rural Ireland. <i>Energy Research and Social Science</i> , 2022 , 89, 102658	7.7	1
6	Can European electric utilities manage asset impairments arising from net zero carbon targets?. Journal of Corporate Finance, 2021 , 70, 102075	3.7	0
5	Flexibility & Directure: Community engagement on climate action & Directure delivery. <i>Energy Policy</i> , 2022 , 167, 113050	7.2	O
4	Introduction: Energy Systems Modelling for a Sustainable World. Lecture Notes in Energy, 2018, 1-13	0.4	
3	From 2 LC to 1.5 LC: How Ambitious Can Ireland Be?. Lecture Notes in Energy, 2018 , 191-205	0.4	
2	Modeling Energy Efficiency and CO2 Emissions Reduction 2015 , 1-15		
1	Efficient and Equitable Climate Change Policies. Systems, 2018, 6, 10	3	