

# Stephen Pye

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8039608/publications.pdf>

Version: 2024-02-01

47  
papers

5,850  
citations

218381

26  
h-index

197535

49  
g-index

155  
all docs

155  
docs citations

155  
times ranked

6689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and opportunities for energy system modelling to foster multi-level governance of energy transitions. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112330.	8.2	13
2	Using large ensembles of climate change mitigation scenarios for robust insights. <i>Nature Climate Change</i> , 2022, 12, 428-435.	8.1	28
3	Energy demand reduction options for meeting national zero-emission targets in the United Kingdom. <i>Nature Energy</i> , 2022, 7, 726-735.	19.8	47
4	Beyond the Energy System: Modeling Frameworks Depicting Distributional Impacts for Interdisciplinary Policy Analysis. <i>Energy Technology</i> , 2021, 9, 2000668.	1.8	7
5	Modelling net-zero emissions energy systems requires a change in approach. <i>Climate Policy</i> , 2021, 21, 222-231.	2.6	85
6	A pathway design framework for sectoral deep decarbonization: the case of passenger transportation. <i>Climate Policy</i> , 2021, 21, 93-106.	2.6	14
7	Lost generation: Reflections on resilience and flexibility from an energy system architecture perspective. <i>Applied Energy</i> , 2021, 298, 117179.	5.1	4
8	Unextractable fossil fuels in a 1.5°C world. <i>Nature</i> , 2021, 597, 230-234.	13.7	407
9	Implications of climate targets on oil production and fiscal revenues in Latin America and the Caribbean. <i>Energy and Climate Change</i> , 2021, 2, 100037.	2.2	5
10	Capturing the distributional impacts of long-term low-carbon transitions. <i>Environmental Innovation and Societal Transitions</i> , 2020, 35, 346-356.	2.5	19
11	An equitable redistribution of unburnable carbon. <i>Nature Communications</i> , 2020, 11, 3968.	5.8	44
12	Heat Decarbonisation Modelling Approaches in the UK: An Energy System Architecture Perspective. <i>Energies</i> , 2020, 13, 1869.	1.6	17
13	Using clustering algorithms to characterise uncertain long-term decarbonisation pathways. <i>Applied Energy</i> , 2020, 268, 114947.	5.1	14
14	The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. <i>Lancet</i> , The, 2019, 394, 1836-1878.	6.3	905
15	Nationally Determined Contributions under the Paris Agreement and the costs of delayed action. <i>Climate Policy</i> , 2019, 19, 947-958.	2.6	17
16	Technology interdependency in the United Kingdom's low carbon energy transition. <i>Energy Strategy Reviews</i> , 2019, 24, 314-330.	3.3	22
17	A pathway design framework for national low greenhouse gas emission development strategies. <i>Nature Climate Change</i> , 2019, 9, 261-268.	8.1	93
18	Prospects for energy economy modelling with big data: Hype, eliminating blind spots, or revolutionising the state of the art?. <i>Applied Energy</i> , 2019, 239, 991-1002.	5.1	20

#	ARTICLE	IF	CITATIONS
19	Strengthening the EU response to energy poverty. <i>Nature Energy</i> , 2019, 4, 2-5.	19.8	61
20	Smart energy solutions in the EU: State of play and measuring progress. <i>Energy Strategy Reviews</i> , 2018, 20, 133-149.	3.3	16
21	Europe's ambition for biofuels in aviation - A strategic review of challenges and opportunities. <i>Energy Strategy Reviews</i> , 2018, 20, 1-5.	3.3	47
22	The Lancet Countdown on health benefits from the UK Climate Change Act: a modelling study for Great Britain. <i>Lancet Planetary Health</i> , The, 2018, 2, e202-e213.	5.1	38
23	The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health. <i>Lancet</i> , The, 2018, 391, 581-630.	6.3	802
24	Uncertainty, politics, and technology: Expert perceptions on energy transitions in the United Kingdom. <i>Energy Research and Social Science</i> , 2018, 37, 122-132.	3.0	49
25	The future role of natural gas in the UK: A bridge to nowhere?. <i>Energy Policy</i> , 2018, 113, 454-465.	4.2	57
26	The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. <i>Lancet</i> , The, 2018, 392, 2479-2514.	6.3	595
27	Inequality in energy and climate policies: Assessing distributional impact consideration in UK policy appraisal. <i>Energy Policy</i> , 2018, 123, 594-601.	4.2	9
28	A review of approaches to uncertainty assessment in energy system optimization models. <i>Energy Strategy Reviews</i> , 2018, 21, 204-217.	3.3	121
29	Assessing the benefits of demand-side flexibility in residential and transport sectors from an integrated energy systems perspective. <i>Applied Energy</i> , 2018, 228, 965-979.	5.1	72
30	Assessing qualitative and quantitative dimensions of uncertainty in energy modelling for policy support in the United Kingdom. <i>Energy Research and Social Science</i> , 2018, 46, 332-344.	3.0	36
31	Public health air pollution impacts of pathway options to meet the 2050 UK Climate Change Act target: a modelling study. <i>Public Health Research</i> , 2018, 6, 1-124.	0.5	2
32	Formalizing best practice for energy system optimization modelling. <i>Applied Energy</i> , 2017, 194, 184-198.	5.1	235
33	Achieving net-zero emissions through the reframing of UK national targets in the post-Paris Agreement era. <i>Nature Energy</i> , 2017, 2, .	19.8	94
34	Tracking sectoral progress in the deep decarbonisation of energy systems in Europe. <i>Energy Policy</i> , 2017, 110, 509-517.	4.2	25
35	Quantifying the co-impacts of energy sector decarbonisation on outdoor air pollution in the United Kingdom. <i>Energy Policy</i> , 2017, 101, 42-51.	4.2	61
36	Regional winners and losers in future UK energy system transitions. <i>Energy Strategy Reviews</i> , 2016, 13-14, 11-31.	3.3	34

#	ARTICLE	IF	CITATIONS
37	Improving deep decarbonization modelling capacity for developed and developing country contexts. <i>Climate Policy</i> , 2016, 16, S27-S46.	2.6	36
38	Exploring national decarbonization pathways and global energy trade flows: a multi-scale analysis. <i>Climate Policy</i> , 2016, 16, S92-S109.	2.6	15
39	Low emissions development pathways of the Macedonian energy sector. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1202-1211.	8.2	18
40	Health and climate change: policy responses to protect public health. <i>Lancet, The</i> , 2015, 386, 1861-1914.	6.3	1,311
41	Modelling sustainable urban travel in a whole systems energy model. <i>Applied Energy</i> , 2015, 159, 97-107.	5.1	44
42	An integrated systematic analysis of uncertainties in UK energy transition pathways. <i>Energy Policy</i> , 2015, 87, 673-684.	4.2	93
43	The uncertain but critical role of demand reduction in meeting long-term energy decarbonisation targets. <i>Energy Policy</i> , 2014, 73, 575-586.	4.2	56
44	Exploring the impact of reduced hydro capacity and lignite resources on the Macedonian power sector development. <i>Thermal Science</i> , 2014, 18, 721-730.	0.5	9
45	Assessment of the impact of renewable energy and energy efficiency policies on the Macedonian energy sector development. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 041814.	0.8	9
46	The iterative contribution and relevance of modelling to UK energy policy. <i>Energy Policy</i> , 2009, 37, 850-860.	4.2	88
47	The role of international drivers on UK scenarios of a low-carbon society. <i>Climate Policy</i> , 2008, 8, S125-S139.	2.6	22