Charlie Wilson

List of Publications by Year
in descending order

80 papers	6,600 citations	109264 35 h-index	123376 61 g-index
85 all docs	85 docs citations	85 times ranked	6641 citing authors

#	Article	IF	Citations
1	The challenge to keep global warming below 2 Â°C. Nature Climate Change, 2013, 3, 4-6.	8.1	809
2	A low energy demand scenario for meeting the 1.5â€‰Â°C target and sustainable development goals without negative emission technologies. Nature Energy, 2018, 3, 515-527.	19.8	733
3	Models of Decision Making and Residential Energy Use. Annual Review of Environment and Resources, 2007, 32, 169-203.	5.6	567
4	Smart homes and their users: a systematic analysis and key challenges. Personal and Ubiquitous Computing, 2015, 19, 463-476.	1.9	368
5	Benefits and risks of smart home technologies. Energy Policy, 2017, 103, 72-83.	4.2	363
6	Drivers of declining CO2 emissions in 18 developed economies. Nature Climate Change, 2019, 9, 213-217.	8.1	307
7	The Energy Technology Innovation System. Annual Review of Environment and Resources, 2012, 37, 137-162.	5.6	223
8	Why do homeowners renovate energy efficiently? Contrasting perspectives and implications for policy. Energy Research and Social Science, 2015, 7, 12-22.	3.0	199
9	Learning to live in a smart home. Building Research and Information, 2018, 46, 127-139.	2.0	188
10	Apples, oranges, and consistent comparisons of the temporal dynamics of energy transitions. Energy Research and Social Science, 2016, 22, 18-25.	3.0	146
11	Improving the behavioral realism of global integrated assessment models: An application to consumersâ€™ vehicle choices. Transportation Research, Part D: Transport and Environment, 2017, 55, 322-342.	3.2	140
12	Up-scaling, formative phases, and learning in the historical diffusion of energy technologies. Energy Policy, 2012, 50, 81-94.	4.2	138
13	Marginalization of end-use technologies in energy innovation for climate protection. Nature Climate Change, 2012, 2, 780-788.	8.1	137
14	Title is missing!. , 2000, 5, 51-60.		136
15	Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles. Nature Energy, 2018, 3, 664-673.	19.8	122
16	Future capacity growth of energy technologies: are scenarios consistent with historical evidence?. Climatic Change, 2013, 118, 381-395.	1.7	111
17	Granular technologies to accelerate decarbonization. Science, 2020, 368, 36-39.	6.0	108
18	Diagnostic indicators for integrated assessment models of climate policy. Technological Forecasting and Social Change, 2015, 90, 45-61.	6.2	104

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19	The appeal of the green deal: Empirical evidence for the influence of energy efficiency policy on renovating homeowners. Energy Policy, 2015, 79, 161-176.	4.2	94
20	Measuring the duration of formative phases for energy technologies. Environmental Innovation and Societal Transitions, 2016, 21, 95-112.	2.5	82
21	Lessons from the history of technological change for clean energy scenarios and policies. Natural Resources Forum, 2011, 35, 165-184.	1.8	79
22	Social influence in the global diffusion of alternative fuel vehicles â€“ A meta-analysis. Journal of Transport Geography, 2017, 62, 247-261.	2.3	77
23	Measuring the energy intensity of domestic activities from smart meter data. Applied Energy, 2016, 183, 1565-1580.	5.1	73
24	Decarbonising the critical sectors of aviation, shipping, road freight and industry to limit warming to 1.5â€“2Â°C. Climate Policy, 2021, 21, 455-474.	2.6	72
25	Energy modellers should explore extremes more systematically in scenarios. Nature Energy, 2020, 5, 104-107.	19.8	71
26	Stranded research? Leading finance journals are silent on climate change. Climatic Change, 2017, 143, 243-260.	1.7	68
27	Demand-side approaches for limiting global warming to 1.5ÂÂ°C. Energy Efficiency, 2019, 12, 343-362.	1.3	66
28	Quantitative modelling of why and how homeowners decide to renovate energy efficiently. Applied Energy, 2018, 212, 1333-1344.	5.1	64
29	Multiple Models to Inform Climate Change Policy: A Pragmatic Response to the â€˜Beyond the ABCâ€™ Debate. Environment and Planning A, 2011, 43, 2781-2787.	2.1	53
30	Disruptive low-carbon innovations. Energy Research and Social Science, 2018, 37, 216-223.	3.0	52
31	Climate mitigation scenarios with persistent COVID-19-related energy demand changes. Nature Energy, 2021, 6, 1114-1123.	19.8	47
32	Trends in investments in global energy research, development, and demonstration. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 373-396.	3.6	43
33	Comparing future patterns of energy system change in 2 Â°C scenarios with historically observed rates of change. Global Environmental Change, 2015, 35, 436-449.	3.6	42
34	Modelling social influence and cultural variation in global low-carbon vehicle transitions. Global Environmental Change, 2017, 47, 76-87.	3.6	41
35	The diffusion of domestic energy efficiency policies: A spatial perspective. Energy Policy, 2018, 114, 77-88.	4.2	41
36	Smart Homes and Their Users. Human-computer Interaction Series, 2017, , .	0.4	38

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37	Reviewing the scope and thematic focus of 100â€‰000 publications on energy consumption, services and social aspects of climate change: a big data approach to demand-side mitigation [*]. Environmental Research Letters, 2021, 16, 033001.	2.2	34
38	Critical perspectives on disruptive innovation and energy transformation. Energy Research and Social Science, 2018, 37, 211-215.	3.0	33
39	Evaluating process-based integrated assessment models of climate change mitigation. Climatic Change, 2021, 166, 1.	1.7	33
40	Structured decision-making to link climate change and sustainable development. Climate Policy, 2007, 7, 353-370.	2.6	32
41	The influence of contextual cues on the perceived status of consumption-reducing behavior. Ecological Economics, 2015, 117, 108-117.	2.9	32
42	The potential contribution of disruptive low-carbon innovations to 1.5ÂÂ°C climate mitigation. Energy Efficiency, 2019, 12, 423-440.	1.3	32
43	The â€˜Four Dimensions of Behaviourâ€™ framework: a tool for characterising behaviours to help design better interventions. Transportation Planning and Technology, 2014, 37, 38-61.	0.9	30
44	Policies for the Energy Technology Innovation System (ETIS). , 0, , 1665-1744.		29
45	Energy Pathways for Sustainable Development. , 0, , 1205-1306.		29
46	Potential Climate Benefits of Digital Consumer Innovations. Annual Review of Environment and Resources, 2020, 45, 113-144.	5.6	29
47	Interactions between social learning and technological learning in electric vehicle futures. Environmental Research Letters, 2018, 13, 124004.	2.2	27
48	Comparing future patterns of energy system change in 2â€¯Â°C scenarios to expert projections. Global Environmental Change, 2018, 50, 201-211.	3.6	25
49	Social signals and sustainability: ambiguity about motivations can affect status perceptions of efficiency and curtailment behaviors. Environment Systems and Decisions, 2017, 37, 184-197.	1.9	22
50	Time to get ready: Conceptualizing the temporal and spatial dynamics of formative phases for energy technologies. Energy Policy, 2018, 119, 282-293.	4.2	22
51	Social networks and communication behaviour underlying smart home adoption in the UK. Environmental Innovation and Societal Transitions, 2021, 38, 82-97.	2.5	20
52	Advancing energy and well-being research. Nature Sustainability, 2022, 5, 98-103.	11.5	20
53	Analysing future change in the EU's energy innovation system. Energy Strategy Reviews, 2019, 24, 279-299.	3.3	15
54	Social influence in the adoption of digital consumer innovations for climate change. Energy Policy, 2022, 162, 112800.	4.2	14

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55	Are low-carbon innovations appealing? A typology of functional, symbolic, private and public attributes. Energy Research and Social Science, 2020, 64, 101422.	3.0	12
56	Sources and Consequences of Knowledge Depreciation. , 2013, , 133-145.		10
57	Low carbon innovations for mobility, food, homes and energy: A synthesis of consumer attributes. Renewable and Sustainable Energy Reviews, 2020, 130, 109954.	8.2	9
58	Perceived Benefits and Risks of Smart Home Technologies. Human-computer Interaction Series, 2017, , 35-53.	0.4	9
59	Energy Transition Pathways to a low-carbon Europe in 2050: the degree of cooperation and the level of decentralization. Economics of Energy and Environmental Policy, 2020, 9, .	0.7	7
60	Translating Global Integrated Assessment Model Output into Lifestyle Change Pathways at the Country and Household Level. Energies, 2022, 15, 1650.	1.6	7
61	Analysing energy innovation portfolios from a systemic perspective. Energy Policy, 2019, 134, 110942.	4.2	6
62	Structured decision-making to link climate change and sustainable development. Climate Policy, 2007, 7, 353-370.	2.6	5
63	Introduction: Smart Homes and Their Users. Human-computer Interaction Series, 2017, , 1-14.	0.4	4
64	Grand Designs: Historical Patterns and Future Scenarios of Energy Technological Change. , 0, , 39-53.		3
65	A Comparative Analysis of Annual Market Investments in Energy Supply and End-Use Technologies. , 0, , 332-346.		3
66	Improving efficiency in buildings. , 2015, , 162-188.		3
67	Global R&D, Market Formation, and Diffusion Investments in Energy Technology Innovation. , 0, , 292-308.		2
68	Control of Smart Home Technologies. Human-computer Interaction Series, 2017, , 91-105.	0.4	2
69	Policies for Energy Technology Innovation. , 2013, , 371-387.		1
70	Technology Portfolios: Modelling Technological Uncertainty and Innovation Risks. , 0, , 89-102.		1
71	Input, Output, and Outcome Metrics for Assessing Energy Technology Innovation. , 0, , 75-88.		1
72	Historical Diffusion and Growth of Energy Technologies. , 0, , 54-74.		1

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73	Technical, economic, social, and cultural perspectives on energy demand. , 2015, , 125-147.		1
74	Analytical Framework for Research on Smart Homes and Their Users. Human-computer Interaction Series, 2017, , 15-34.	0.4	1
75	Historical Case Studies of Energy Technology Innovation. , 0, , 30-36.		0
76	The Energy Technology Innovation System. , 0, , 11-29.		0
77	Energy Technology Innovation. , 0, , 3-10.		0
78	Lessons Learnt from the Energy Technology Innovation System. , 0, , 349-370.		0
79	Application of experience curves and learning to other fields. , 2020, , 49-62.		0
80	Domestication of Smart Home Technologies. Human-computer Interaction Series, 2017, , 75-90.	0.4	0