

# Alan K Meier

## List of Publications by Citations

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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.

72  
papers

1,377  
citations

22  
h-index

35  
g-index

78  
ext. papers

1,635  
ext. citations

5.9  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
72	How people use thermostats in homes: A review. <i>Building and Environment</i> , <b>2011</b> , 46, 2529-2541	6.5	202
71	Energy impacts of recycling disassembly material in residential buildings. <i>Energy and Buildings</i> , <b>2001</b> , 33, 553-562	7	87
70	Consumer discount rates implied by purchases of energy-efficient refrigerators. <i>Energy</i> , <b>1983</b> , 8, 957-962.	7.9	60
69	Usability of residential thermostats: Preliminary investigations. <i>Building and Environment</i> , <b>2011</b> , 46, 1891-1898	6.5	56
68	The 25 IEA energy efficiency policy recommendations to the G8 Gleneagles Plan of Action. <i>Energy Policy</i> , <b>2010</b> , 38, 6409-6418	7.2	56
67	Non-invasive (non-contact) measurements of human thermal physiology signals and thermal comfort/discomfort poses -A review. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110261	7	50
66	Energy efficiency and the misuse of programmable thermostats: The effectiveness of crowdsourcing for understanding household behavior. <i>Energy Research and Social Science</i> , <b>2015</b> , 8, 190-197	7.7	47
65	Supply curves of conserved energy for California's residential sector. <i>Energy</i> , <b>1982</b> , 7, 347-358	7.9	45
64	Accuracy of home energy rating systems. <i>Energy</i> , <b>2000</b> , 25, 339-354	7.9	44
63	Facilitating energy savings with programmable thermostats: evaluation and guidelines for the thermostat user interface. <i>Ergonomics</i> , <b>2013</b> , 56, 463-79	2.9	41
62	CONSERVED ENERGY SUPPLY CURVES FOR U.S. BUILDINGS. <i>Contemporary Economic Policy</i> , <b>1993</b> , 11, 45-68	1	41
61	City carbon budgets: A proposal to align incentives for climate-friendly communities. <i>Energy Policy</i> , <b>2010</b> , 38, 2032-2041	7.2	39
60	Electricity used by office equipment and network equipment in the US. <i>Energy</i> , <b>2002</b> , 27, 255-269	7.9	38
59	Strategic landscaping and air-conditioning savings: A literature review. <i>Energy and Buildings</i> , <b>1990</b> , 15, 479-486	7	37
58	Refrigerator energy use in the laboratory and in the field. <i>Energy and Buildings</i> , <b>1995</b> , 22, 233-243	7	32
57	Operating buildings during temporary electricity shortages. <i>Energy and Buildings</i> , <b>2006</b> , 38, 1296-1301	7	27
56	Real-time and contactless measurements of thermal discomfort based on human poses for energy efficient control of buildings. <i>Building and Environment</i> , <b>2019</b> , 162, 106284	6.5	24

55	Communicating Power Supplies: Bringing the Internet to the Ubiquitous Energy Gateways of Electronic Devices. <i>IEEE Internet of Things Journal</i> , <b>2014</b> , 1, 153-160	10.7	24
54	Identification and quantification of principal intelligent problems affecting energy efficiency investments and use decisions in the trucking industry. <i>Energy Policy</i> , <b>2012</b> , 49, 266-273	7.2	24
53	Tailored gamification and serious game framework based on fuzzy logic for saving energy in connected thermostats. <i>Journal of Cleaner Production</i> , <b>2020</b> , 262, 121167	10.3	22
52	Measurements of whole-house standby power consumption in California homes. <i>Energy</i> , <b>2002</b> , 27, 861-868	7.8	22
51	Supplying Energy through Greater Efficiency <b>1983</b> ,		22
50	Accelerated electricity conservation in Juneau, Alaska: A study of household activities that reduced demand 25%. <i>Energy Policy</i> , <b>2011</b> , 39, 2299-2309	7.2	21
49	Miscellaneous electricity in US homes: Historical decomposition and future trends. <i>Energy Policy</i> , <b>1998</b> , 26, 585-593	7.2	21
48	Standby power use in Chinese homes. <i>Energy and Buildings</i> , <b>2004</b> , 36, 1211-1216	7	21
47	Energy test procedures for appliances. <i>Energy and Buildings</i> , <b>1997</b> , 26, 23-33	7	20
46	Upscaling participatory thermal sensing: Lessons from an interdisciplinary case study at University of California for improving campus efficiency and comfort. <i>Energy Research and Social Science</i> , <b>2017</b> , 32, 44-54	7.7	19
45	Energy demand science for a decarbonized society in the context of the residential sector. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 132, 110051	16.2	17
44	Fuel consumption impacts of auto roof racks. <i>Energy Policy</i> , <b>2016</b> , 92, 325-333	7.2	15
43	Miscellaneous electrical energy use in homes. <i>Energy</i> , <b>1992</b> , 17, 509-518	7.9	15
42	Observed energy savings from appliance efficiency standards. <i>Energy and Buildings</i> , <b>1997</b> , 26, 111-117	7	14
41	The Next Generation of Social Products Based on Sensing, Smart and Sustainable (S3) Features: A Smart Thermostat as Case Study. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 2390-2395	0.7	14
40	Sulfur Control In Coal Fired Power Plants: A Probabilistic Approach to Policy Analysis. <i>Journal of the Air Pollution Control Association</i> , <b>1978</b> , 28, 993-997		10
39	Multi-sensor System, Gamification, and Artificial Intelligence for Benefit Elderly People. <i>Studies in Systems, Decision and Control</i> , <b>2020</b> , 207-235	0.8	10
38	Using data from connected thermostats to track large power outages in the United States. <i>Applied Energy</i> , <b>2019</b> , 256, 113940	10.7	9

37	The electricity impacts of Earth Hour: An international comparative analysis of energy-saving behavior. <i>Energy Research and Social Science</i> , <b>2014</b> , 2, 159-182	7.7	8
36	Defining a standard metric for electricity savings. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 014017	6.2	8
35	Power measurements and national energy consumption of televisions and videocassette recorders in the USA. <i>Energy</i> , <b>2000</b> , 25, 219-232	7.9	8
34	Whole-House Measurements of Standby Power Consumption <b>2001</b> , 278-285		8
33	Energy Management System Based on a Gamified Application for Households. <i>Energies</i> , <b>2021</b> , 14, 3445	3.1	7
32	Zero Standby Solutions with Optical Energy Harvesting from a Laser Pointer. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 292	2.6	6
31	Emerging Zero-Standby Solutions for Miscellaneous Electric Loads and the Internet of Things. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 570	2.6	5
30	Testing the accuracy of a measurement-based building energy model with synthetic data. <i>Energy and Buildings</i> , <b>1988</b> , 12, 77-82	7	5
29	A method to generate heating and cooling schedules based on data from connected thermostats. <i>Energy and Buildings</i> , <b>2020</b> , 228, 110423	7	5
28	<b>2019</b> ,		5
27	<b>2020</b> ,		5
26	Cars are buildings: Building-like energy use in automobiles. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2011</b> , 16, 341-345	6.4	4
25	PowerPlay: Exploring decision making behaviors in energy efficiency markets. <i>Technological Forecasting and Social Change</i> , <b>2007</b> , 74, 470-490	9.5	4
24	Smart Homes as Enablers for Depression Pre-Diagnosis Using PHQ-9 on HMI through Fuzzy Logic Decision System. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
23	Using Deep Learning in Real-Time for Clothing Classification with Connected Thermostats. <i>Energies</i> , <b>2022</b> , 15, 1811	3.1	4
22	New standby power targets. <i>Energy Efficiency</i> , <b>2019</b> , 12, 175-186	3	3
21	A Model Using Artificial Neural Networks and Fuzzy Logic for Knowing the Consumer on Smart Thermostats as a S3 Product. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 430-439	0.9	3
20	S4 Product Design Framework: A Gamification Strategy Based on Type 1 and 2 Fuzzy Logic. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 509-524	0.9	3

19	<b>2021,</b>			3
18	Practical limits to the use of non-intrusive load monitoring in commercial buildings. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111308	7		3
17	Empowering saving energy at home through serious games on thermostat interfaces. <i>Energy and Buildings</i> , <b>2022</b> , 263, 112026	7		3
16	New Approach to Modeling Large-Scale Transitions to Alternative Fuels and Vehicles. <i>Transportation Research Record</i> , <b>2013</b> , 2385, 61-69	1.7		2
15	The EPA's protocols for verifying savings from utility energy-conservation programs. <i>Energy</i> , <b>1995</b> , 20, 105-115	7.9		2
14	A Gamified HMI as a Response for Implementing a Smart-Sustainable University Campus. <i>IFIP Advances in Information and Communication Technology</i> , <b>2021</b> , 683-691	0.5		2
13	A Rapid HMI Prototyping Based on Personality Traits and AI for Social Connected Thermostats. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 216-227	0.9		2
12	Energy Use of U.S. Consumer Electronics at the End of the 20th Century <b>2001</b> , 256-266			2
11	Miscellaneous electric loads: Characterization and energy savings potential. <i>Energy and Buildings</i> , <b>2021</b> , 241, 110892	7		2
10	Designing a Consumer Framework for Social Products Within a Gamified Smart Home Context. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 429-443	0.9		2
9	Everyone has a peer in the low user tier—the diversity of low residential energy users. <i>Energy Efficiency</i> , <b>2019</b> , 12, 245-259	3		1
8	Energy savings assessment for digital-to-analog converter boxes. <i>Energy Policy</i> , <b>2011</b> , 39, 1312-1317	7.2		1
7	The data behind the Hood River analyses. <i>Energy and Buildings</i> , <b>1989</b> , 13, 11-18	7		1
6	Human-Machine Interfaces for Socially Connected Devices: From Smart Households to Smart Cities <b>2021</b> , 253-289			1
5	CASE STUDY ON THE VALIDITY OF ENERGY SIMULATION AND ENERGY MEASURING IN THE OFFICE ZEB IN CALIFORNIA, U.S.. <i>AIJ Journal of Technology and Design</i> , <b>2017</b> , 23, 557-561	0.2		1
4	Targeting buildings for energy-saving cool-wall retrofits: a case study at the University of California, Davis. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111014	7		1
3	Using synthetic data to explore the usefulness of prism's parameters at inferring causes of changes in normalized annual consumption. <i>Energy</i> , <b>1994</b> , 19, 135-148	7.9		
2	Conservation will always be with us. <i>Energy</i> , <b>1981</b> , 6, 585-589	7.9		

1 Energy use of residential safety, security, and health devices. *Energy and Buildings*, **2021**, 250, 111217 7