Alan K Meier

List of Publications by Year in Descending Order

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	Using Deep Learning in Real-Time for Clothing Classification with Connected Thermostats. *Energies*, **2022**, 15, 1811	3.1	4
71	Empowering saving energy at home through serious games on thermostat interfaces. *Energy and Buildings*, **2022**, 263, 112026	7	3
70	Smart Homes as Enablers for Depression Pre-Diagnosis Using PHQ-9 on HMI through Fuzzy Logic Decision System. *Sensors*, **2021**, 21,	3.8	4
69	A Gamified HMI as a Response for Implementing a Smart-Sustainable University Campus. *IFIP Advances in Information and Communication Technology*, **2021**, 683-691	0.5	2
68	A Rapid HMI Prototyping Based on Personality Traits and AI for Social Connected Thermostats. *Lecture Notes in Computer Science*, **2021**, 216-227	0.9	2
67	Human-Machine Interfaces for Socially Connected Devices: From Smart Households to Smart Cities **2021**, 253-289		1
66	**2021**,		3
65	Miscellaneous electric loads: Characterization and energy savings potential. *Energy and Buildings*, **2021**, 241, 110892	7	2
64	Energy Management System Based on a Gamified Application for Households. *Energies*, **2021**, 14, 3445	3.1	7
63	Designing a Consumer Framework for Social Products Within a Gamified Smart Home Context. *Lecture Notes in Computer Science*, **2021**, 429-443	0.9	2
62	Targeting buildings for energy-saving cool-wall retrofits: a case study at the University of California, Davis. *Energy and Buildings*, **2021**, 249, 111014	7	1
61	Practical limits to the use of non-intrusive load monitoring in commercial buildings. *Energy and Buildings*, **2021**, 251, 111308	7	3
60	Energy use of residential safety, security, and health devices. *Energy and Buildings*, **2021**, 250, 111217	7	
59	Tailored gamification and serious game framework based on fuzzy logic for saving energy in connected thermostats. *Journal of Cleaner Production*, **2020**, 262, 121167	10.3	22
58	Non-invasive (non-contact) measurements of human thermal physiology signals and thermal comfort/discomfort poses -A review. *Energy and Buildings*, **2020**, 224, 110261	7	50
57	Multi-sensor System, Gamification, and Artificial Intelligence for Benefit Elderly People. *Studies in Systems, Decision and Control*, **2020**, 207-235	0.8	10
56	S4 Product Design Framework: A Gamification Strategy Based on Type 1 and 2 Fuzzy Logic. *Lecture Notes in Computer Science*, **2020**, 509-524	0.9	3

55	A method to generate heating and cooling schedules based on data from connected thermostats. *Energy and Buildings*, **2020**, 228, 110423	7	5
54	Energy demand science for a decarbonized society in the context of the residential sector. *Renewable and Sustainable Energy Reviews*, **2020**, 132, 110051	16.2	17
53	**2020**,		5
52	Emerging Zero-Standby Solutions for Miscellaneous Electric Loads and the Internet of Things. *Electronics (Switzerland)*, **2019**, 8, 570	2.6	5
51	Everyone has a peer in the low user tier the diversity of low residential energy users. *Energy Efficiency*, **2019**, 12, 245-259	3	1
50	New standby power targets. *Energy Efficiency*, **2019**, 12, 175-186	3	3
49	Real-time and contactless measurements of thermal discomfort based on human poses for energy efficient control of buildings. *Building and Environment*, **2019**, 162, 106284	6.5	24
48	Using data from connected thermostats to track large power outages in the United States. *Applied Energy*, **2019**, 256, 113940	10.7	9
47	A Model Using Artificial Neural Networks and Fuzzy Logic for Knowing the Consumer on Smart Thermostats as a S3 Product. *Lecture Notes in Computer Science*, **2019**, 430-439	0.9	3
46	**2019**,		5
45	The Next Generation of Social Products Based on Sensing, Smart and Sustainable (S3) Features: A Smart Thermostat as Case Study. *IFAC-PapersOnLine*, **2019**, 52, 2390-2395	0.7	14
44	Zero Standby Solutions with Optical Energy Harvesting from a Laser Pointer. *Electronics (Switzerland)*, **2018**, 7, 292	2.6	6
43	Upscaling participatory thermal sensing: Lessons from an interdisciplinary case study at University of California for improving campus efficiency and comfort. *Energy Research and Social Science*, **2017**, 32, 44-54	7.7	19
42	CASE STUDY ON THE VALIDITY OF ENERGY SIMULATION AND ENERGY MEASURING IN THE OFFICE ZEB IN CALIFORNIA, U.S.. *AIJ Journal of Technology and Design*, **2017**, 23, 557-561	0.2	1
41	Fuel consumption impacts of auto roof racks. *Energy Policy*, **2016**, 92, 325-333	7.2	15
40	Energy efficiency and the misuse of programmable thermostats: The effectiveness of crowdsourcing for understanding household behavior. *Energy Research and Social Science*, **2015**, 8, 190-197	7.7	47
39	Communicating Power Supplies: Bringing the Internet to the Ubiquitous Energy Gateways of Electronic Devices. *IEEE Internet of Things Journal*, **2014**, 1, 153-160	10.7	24
38	The electricity impacts of Earth Hour: An international comparative analysis of energy-saving behavior. *Energy Research and Social Science*, **2014**, 2, 159-182	7.7	8

37	Facilitating energy savings with programmable thermostats: evaluation and guidelines for the thermostat user interface. *Ergonomics*, **2013**, 56, 463-79	2.9	41
36	New Approach to Modeling Large-Scale Transitions to Alternative Fuels and Vehicles. *Transportation Research Record*, **2013**, 2385, 61-69	1.7	2
35	Identification and quantification of principal–agent problems affecting energy efficiency investments and use decisions in the trucking industry. *Energy Policy*, **2012**, 49, 266-273	7.2	24
34	Cars are buildings: Building-like energy use in automobiles. *Transportation Research, Part D: Transport and Environment*, **2011**, 16, 341-345	6.4	4
33	How people use thermostats in homes: A review. *Building and Environment*, **2011**, 46, 2529-2541	6.5	202
32	Usability of residential thermostats: Preliminary investigations. *Building and Environment*, **2011**, 46, 1891-1898	6.5	56
31	Energy savings assessment for digital-to-analog converter boxes. *Energy Policy*, **2011**, 39, 1312-1317	7.2	1
30	Accelerated electricity conservation in Juneau, Alaska: A study of household activities that reduced demand 25%. *Energy Policy*, **2011**, 39, 2299-2309	7.2	21
29	Defining a standard metric for electricity savings. *Environmental Research Letters*, **2010**, 5, 014017	6.2	8
28	The 25 IEA energy efficiency policy recommendations to the G8 Gleneagles Plan of Action. *Energy Policy*, **2010**, 38, 6409-6418	7.2	56
27	City carbon budgets: A proposal to align incentives for climate-friendly communities. *Energy Policy*, **2010**, 38, 2032-2041	7.2	39
26	PowerPlay: Exploring decision making behaviors in energy efficiency markets. *Technological Forecasting and Social Change*, **2007**, 74, 470-490	9.5	4
25	Operating buildings during temporary electricity shortages. *Energy and Buildings*, **2006**, 38, 1296-1301	7	27
24	Standby power use in Chinese homes. *Energy and Buildings*, **2004**, 36, 1211-1216	7	21
23	Electricity used by office equipment and network equipment in the US. *Energy*, **2002**, 27, 255-269	7.9	38
22	Measurements of whole-house standby power consumption in California homes. *Energy*, **2002**, 27, 861-868	7.9	22
21	Energy impacts of recycling disassembly material in residential buildings. *Energy and Buildings*, **2001**, 33, 553-562	7	87
20	Energy Use of U.S. Consumer Electronics at the End of the 20th Century **2001**, 256-266		2

19	Whole-House Measurements of Standby Power Consumption **2001**, 278-285		8
18	Power measurements and national energy consumption of televisions and videocassette recorders in the USA. *Energy*, **2000**, 25, 219-232	7.9	8
17	Accuracy of home energy rating systems. *Energy*, **2000**, 25, 339-354	7.9	44
16	Miscellaneous electricity in US homes: Historical decomposition and future trends. *Energy Policy*, **1998**, 26, 585-593	7.2	21
15	Observed energy savings from appliance efficiency standards. *Energy and Buildings*, **1997**, 26, 111-117	7	14
14	Energy test procedures for appliances. *Energy and Buildings*, **1997**, 26, 23-33	7	20
13	Refrigerator energy use in the laboratory and in the field. *Energy and Buildings*, **1995**, 22, 233-243	7	32
12	The EPA's protocols for verifying savings from utility energy-conservation programs. *Energy*, **1995**, 20, 105-115	7.9	2
11	Using synthetic data to explore the usefulness of prism's parameters at inferring causes of changes in normalized annual consumption. *Energy*, **1994**, 19, 135-148	7.9	
10	CONSERVED ENERGY SUPPLY CURVES FOR U.S. BUILDINGS. *Contemporary Economic Policy*, **1993**, 11, 45-68	1	41
9	Miscellaneous electrical energy use in homes. *Energy*, **1992**, 17, 509-518	7.9	15
8	Strategic landscaping and air-conditioning savings: A literature review. *Energy and Buildings*, **1990**, 15, 479-486	7	37
7	The data behind the Hood River analyses. *Energy and Buildings*, **1989**, 13, 11-18	7	1
6	Testing the accuracy of a measurement-based building energy model with synthetic data. *Energy and Buildings*, **1988**, 12, 77-82	7	5
5	Consumer discount rates implied by purchases of energy-efficient refrigerators. *Energy*, **1983**, 8, 957-962	7.9	60
4	Supplying Energy through Greater Efficiency **1983**,		22
3	Supply curves of conserved energy for California's residential sector. *Energy*, **1982**, 7, 347-358	7.9	45
2	Conservation will always be with us. *Energy*, **1981**, 6, 585-589	7.9	

1 Sulfur Control In Coal Fired Power Plants: A Probabilistic Approach to Policy Analysis. *Journal of the Air Pollution Control Association*, **1978**, 28, 993-997 10