Paul Cooper

List of Publications by Year
in descending order

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73	3,515	126708	138251
papers	citations	33	58
		h-index	g-index

74	74	74	3413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Existing building retrofits: Methodology and state-of-the-art. Energy and Buildings, 2012, 55, 889-902.	3.1	861
2	Evaluating energy consumption of air gap membrane distillation for seawater desalination at pilot scale level. Separation and Purification Technology, 2016, 166, 55-62.	3.9	144
3	Roof mounting site analysis for micro-wind turbines. Renewable Energy, 2011, 36, 1379-1391.	4.3	136
4	Development and optimization of an innovative HVAC system with integrated PVT and PCM thermal storage for a net-zero energy retrofitted house. Energy and Buildings, 2015, 94, 21-32.	3.1	131
5	Development and evaluation of a ceiling ventilation system enhanced by solar photovoltaic thermal collectors and phase change materials. Energy Conversion and Management, 2014, 88, 218-230.	4.4	112
6	Hybrid model predictive control of a residential HVAC system with on-site thermal energy generation and storage. Applied Energy, 2017, 187, 465-479.	5.1	108
7	Optimising thermal efficiency of direct contact membrane distillation by brine recycling for small-scale seawater desalination. Desalination, 2015, 374, 1-9.	4.0	102
8	Nonlinear 2D analysis of the efficiency of fixed Oscillating Water Column wave energy converters. Renewable Energy, 2014, 64, 255-265.	4.3	97
9	Multiple sources of buoyancy in a naturally ventilated enclosure. Journal of Fluid Mechanics, 1996, 311, 177.	1.4	76
10	Natural ventilation of an enclosure containing two buoyancy sources. Journal of Fluid Mechanics, 1996, 311, 153.	1.4	71
11	Thermal performance investigation and optimization of buildings with integrated phase change materials and solar photovoltaic thermal collectors. Energy and Buildings, 2016, 116, 562-573.	3.1	69
12	A finite-element study of the efficiency of arrays of oscillating water column wave energy converters. Ocean Engineering, 2012, 43, 72-81.	1.9	68
13	Membrane scaling and prevention techniques during seawater desalination by air gap membrane distillation. Desalination, 2016, 397, 92-100.	4.0	68
14	Using electrodialysis for regeneration of aqueous lithium chloride solution in liquid desiccant air conditioning systems. Energy and Buildings, 2016, 116, 285-295.	3.1	66
15	A dynamic model for air-based photovoltaic thermal systems working under real operating conditions. Applied Energy, 2014, 132, 216-225.	5.1	63
16	Development of a dynamic model for a hybrid photovoltaic thermal collector â€“ Solar air heater with fins. Renewable Energy, 2017, 101, 816-834.	4.3	63
17	Thermal stratification produced by plumes and jets in enclosed spaces. Building and Environment, 2001, 36, 871-882.	3.0	61
18	Double chamber calorimeter (DCC): a new approach to measure induction motor harmonic losses. IEEE Transactions on Energy Conversion, 1999, 14, 680-685.	3.7	57

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19	Controlling dust emissions and explosion hazards in powder handling plants. Chemical Engineering and Processing: Process Intensification, 2005, 44, 323-326.	1.8	56
20	EHD Enhancement of Nucleate Boiling. Journal of Heat Transfer, 1990, 112, 458-464.	1.2	54
21	Social marketing and value in behaviour?. Journal of Social Marketing, 2016, 6, 144-168.	1.3	54
22	Assessing the performance of solar thermal driven membrane distillation for seawater desalination by computer simulation. Journal of Membrane Science, 2017, 542, 133-142.	4.1	54
23	Empirically testing the concept of value-in-behavior and its relevance for social marketing. Journal of Business Research, 2018, 82, 56-67.	5.8	54
24	Optimal design of vertical ground heat exchangers by using entropy generation minimization method and genetic algorithms. Energy Conversion and Management, 2014, 87, 128-137.	4.4	50
25	Air Entrainment and Dust Generation from a Falling Stream of Bulk Material. KONA Powder and Particle Journal, 1995, 13, 125-134.	0.9	49
26	Thermal perceptions, preferences and adaptive behaviours of occupants of nursing homes. Building and Environment, 2018, 132, 57-69.	3.0	49
27	Peer observation of teaching in university departments: a framework for implementation. International Journal for Academic Development, 2013, 18, 60-73.	0.8	47
28	Understanding the risks and uncertainties introduced by common assumptions in energy simulations for Australian commercial buildings. Energy and Buildings, 2014, 75, 382-393.	3.1	46
29	Osmotic dilution for sustainable greenwall irrigation by liquid fertilizer: Performance and implications. Journal of Membrane Science, 2015, 494, 32-38.	4.1	44
30	Formulation of a model predictive control algorithm to enhance the performance of a latent heat solar thermal system. Energy Conversion and Management, 2018, 173, 438-449.	4.4	40
31	Tyrannies of thrift: Governmentality and older, low-income peopleâ€™s energy efficiency narratives in the Illawarra, Australia. Energy Policy, 2016, 90, 37-45.	4.2	38
32	The ventilated filling box containing a vertically distributed source of buoyancy. Journal of Fluid Mechanics, 2010, 646, 39-58.	1.4	37
33	Hybrid Model Predictive Control of a Residential HVAC System with PVT Energy Generation and PCM Thermal Storage. Energy Procedia, 2015, 83, 21-30.	1.8	35
34	Factors governing mass transfer during membrane electrodialysis regeneration of LiCl solution for liquid desiccant dehumidification systems. Sustainable Cities and Society, 2017, 28, 30-41.	5.1	35
35	Development and evaluation of a comfort-oriented control strategy for thermal management of mixed-mode ventilated buildings. Energy and Buildings, 2019, 202, 109347.	3.1	32
36	Indoor Air Temperature and Agitation of Nursing Home Residents With Dementia. American Journal of Alzheimer's Disease and Other Dementias, 2017, 32, 272-281.	0.9	31

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37	Implications of global warming for commercial building retrofitting in Australian cities. Building and Environment, 2014, 74, 86-95.	3.0	30
38	Hydrodynamic and energetic properties of a finite array of fixed oscillating water column wave energy converters. Ocean Engineering, 2014, 88, 131-148.	1.9	28
39	Innovative interlocked soilâ€“cement block for the construction of masonry to eliminate the settling mortar. Construction and Building Materials, 2014, 52, 391-395.	3.2	27
40	Retrofitting for wildfire resilience: What is the cost?. International Journal of Disaster Risk Reduction, 2017, 21, 1-10.	1.8	27
41	Experimental Investigation of Air Entrainment in Free-Falling Particle Plumes. Particulate Science and Technology, 2007, 25, 357-373.	1.1	20
42	Storying energy consumption: Collective video storytelling in energy efficiency social marketing. Journal of Environmental Management, 2018, 213, 1-10.	3.8	19
43	Thermal Environment and Thermal Sensations of Occupants of Nursing Homes: A Field Study. Procedia Engineering, 2017, 180, 373-382.	1.2	17
44	Theoretical Consideration of Superconducting Coils for Compact Superconducting Magnetic Energy Storage Systems. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	16
45	Experimental investigation and performance evaluation of a mixed-flow air to air membrane enthalpy exchanger with different configurations. Applied Thermal Engineering, 2020, 166, 114682.	3.0	15
46	Thermal Comfort Evaluation of a Mixed-mode Ventilated Office Building with Advanced Natural Ventilation and Underfloor air Distribution Systems. Energy Procedia, 2017, 111, 520-529.	1.8	14
47	Look before you LIEEP. Journal of Social Marketing, 2018, 8, 99-119.	1.3	14
48	Indoor temperatures and energy use in NSW social housing. Energy and Buildings, 2021, 249, 111240.	3.1	12
49	Source and boundary condition effects on unconfined and confined vertically distributed turbulent plumes. Journal of Fluid Mechanics, 2018, 850, 1032-1065.	1.4	11
50	Thermodynamic analysis and design optimisation of a cross flow air to air membrane enthalpy exchanger. Energy, 2020, 202, 117691.	4.5	11
51	Towards an environmentally sustainable rental housing sector. Housing Studies, 2021, 36, 397-420.	1.6	11
52	Numerical analysis of indoor thermal comfort in a cross-ventilated space with top-hung windows. Energy Procedia, 2017, 121, 222-229.	1.8	10
53	Impinging axisymmetric turbulent fountains. Physics of Fluids, 2007, 19, .	1.6	9
54	Qualitative analysis of the use of building performance simulation for retrofitting lower quality office buildings in Australia. Energy and Buildings, 2018, 181, 84-94.	3.1	9

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55	Air-to-air enthalpy exchangers: Membrane modification using metal-organic frameworks, characterisation and performance assessment. Journal of Cleaner Production, 2021, 293, 126157.	4.6	9
56	A social marketer, a geographer, and an engineer walk into a bar. Journal of Social Marketing, 2017, 7, 366-386.	1.3	7
57	Moisture diffusion measurement and evaluation for porous membranes used in enthalpy exchangers. Energy Procedia, 2019, 160, 499-506.	1.8	7
58	Development and analysis of vertical-axis wind turbines. WIT Transactions on State-of-the-art in Science and Engineering, 2010, , 277-302.	0.0	7
59	Condensation risk prediction: Addition of a condensation model to BREDEM. Building Services Engineering Research and Technology, 1988, 9, 117-125.	0.9	6
60	Implementing Departmental Peer Observation of Teaching in Universities. , 2014, , 151-164.		5
61	Impact of a Pilot Draught Sealing Program on Public Housing Air Permeability. Energy Procedia, 2017, 121, 18-25.	1.8	3
62	The Senftleben effect â€" chance or chimera?. Electronics and Power, 1984, 30, 807.	0.0	2
63	On the Efficiency of Oscillating Water Column (OWC) Devices in Converting Ocean Wave Energy to Electricity Under Weakly Nonlinear Waves. , 2012, , .		2
64	Relationship Between Indoor Air Temperatures And Energy Bills For Low Income Homes In Australia. Energy Procedia, 2017, 121, 174-181.	1.8	2
65	Temperature distribution and fluid flow in an enclosure with localised heating and cooling. International Communications in Heat and Mass Transfer, 1995, 22, 729-739.	2.9	1
66	Double-chamber calorimeter, a new approach to measure induction motor harmonic losses. , 0, , .		1
67	Flow generated by colliding laminar natural convection boundary layers. International Communications in Heat and Mass Transfer, 2002, 29, 67-76.	2.9	1
68	A Finite Element Model for Efficiency of a Moored Floating OWC Device in Regular Waves. , 2011, , .		1
69	System Identification of a Floating Oscillating Water Column Wave Energy Converter. , 2011, , .		1
70	Feasibility Study of the Manufacturing Process of Soil-Cement Blocks for the Construction of Masonry Aiming to Eliminate the Settling Mortar Application. Key Engineering Materials, 2014, 600, 166-174.	0.4	1
71	The Highlands Close group solar heating scheme. International Journal of Ambient Energy, 1986, 7, 197-206.	1.4	0
72	Fin-type cold bridges: Heat loss and surface temperature. Building Services Engineering Research and Technology, 1987, 8, 21-27.	0.9	0

#	Article	IF	Citations
73	A 10 kVA load power quality testing facility. , 0, , .		0