

# Paul Cooper

## List of Publications by Citations

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69

papers

2,682

citations

29

h-index

51

g-index

74

ext. papers

3,090

ext. citations

5.5

avg, IF

5.48

L-index

#	Paper	IF	Citations
69	Existing building retrofits: Methodology and state-of-the-art. <i>Energy and Buildings</i> , <b>2012</b> , 55, 889-902	7	691
68	Evaluating energy consumption of air gap membrane distillation for seawater desalination at pilot scale level. <i>Separation and Purification Technology</i> , <b>2016</b> , 166, 55-62	8.3	111
67	Roof mounting site analysis for micro-wind turbines. <i>Renewable Energy</i> , <b>2011</b> , 36, 1379-1391	8.1	106
66	Development and optimization of an innovative HVAC system with integrated PVT and PCM thermal storage for a net-zero energy retrofitted house. <i>Energy and Buildings</i> , <b>2015</b> , 94, 21-32	7	96
65	Development and evaluation of a ceiling ventilation system enhanced by solar photovoltaic thermal collectors and phase change materials. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 218-230	10.6	95
64	Hybrid model predictive control of a residential HVAC system with on-site thermal energy generation and storage. <i>Applied Energy</i> , <b>2017</b> , 187, 465-479	10.7	83
63	Optimising thermal efficiency of direct contact membrane distillation by brine recycling for small-scale seawater desalination. <i>Desalination</i> , <b>2015</b> , 374, 1-9	10.3	82
62	Nonlinear 2D analysis of the efficiency of fixed Oscillating Water Column wave energy converters. <i>Renewable Energy</i> , <b>2014</b> , 64, 255-265	8.1	74
61	Multiple sources of buoyancy in a naturally ventilated enclosure. <i>Journal of Fluid Mechanics</i> , <b>1996</b> , 311, 177	3.7	61
60	Natural ventilation of an enclosure containing two buoyancy sources. <i>Journal of Fluid Mechanics</i> , <b>1996</b> , 311, 153	3.7	59
59	Thermal performance investigation and optimization of buildings with integrated phase change materials and solar photovoltaic thermal collectors. <i>Energy and Buildings</i> , <b>2016</b> , 116, 562-573	7	57
58	A dynamic model for air-based photovoltaic thermal systems working under real operating conditions. <i>Applied Energy</i> , <b>2014</b> , 132, 216-225	10.7	56
57	Using electrodialysis for regeneration of aqueous lithium chloride solution in liquid desiccant air conditioning systems. <i>Energy and Buildings</i> , <b>2016</b> , 116, 285-295	7	52
56	Membrane scaling and prevention techniques during seawater desalination by air gap membrane distillation. <i>Desalination</i> , <b>2016</b> , 397, 92-100	10.3	50
55	A finite-element study of the efficiency of arrays of oscillating water column wave energy converters. <i>Ocean Engineering</i> , <b>2012</b> , 43, 72-81	3.9	48
54	Controlling dust emissions and explosion hazards in powder handling plants. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2005</b> , 44, 323-326	3.7	48
53	Optimal design of vertical ground heat exchangers by using entropy generation minimization method and genetic algorithms. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 128-137	10.6	44

52	Development of a dynamic model for a hybrid photovoltaic thermal collector ☒Solar air heater with fins. <i>Renewable Energy</i> , <b>2017</b> , 101, 816-834	8.1	44
51	Thermal stratification produced by plumes and jets in enclosed spaces. <i>Building and Environment</i> , <b>2001</b> , 36, 871-882	6.5	44
50	Double chamber calorimeter (DCC): a new approach to measure induction motor harmonic losses. <i>IEEE Transactions on Energy Conversion</i> , <b>1999</b> , 14, 680-685	5.4	43
49	Understanding the risks and uncertainties introduced by common assumptions in energy simulations for Australian commercial buildings. <i>Energy and Buildings</i> , <b>2014</b> , 75, 382-393	7	41
48	EHD Enhancement of Nucleate Boiling. <i>Journal of Heat Transfer</i> , <b>1990</b> , 112, 458-464	1.8	40
47	Osmotic dilution for sustainable greenwall irrigation by liquid fertilizer: Performance and implications. <i>Journal of Membrane Science</i> , <b>2015</b> , 494, 32-38	9.6	39
46	Social marketing and value in behaviour?. <i>Journal of Social Marketing</i> , <b>2016</b> , 6, 144-168	2.4	39
45	Peer observation of teaching in university departments: a framework for implementation. <i>International Journal for Academic Development</i> , <b>2013</b> , 18, 60-73	1.3	36
44	Air Entrainment and Dust Generation from a Falling Stream of Bulk Material. <i>KONA Powder and Particle Journal</i> , <b>1995</b> , 13, 125-134	3.4	36
43	Empirically testing the concept of value-in-behavior and its relevance for social marketing. <i>Journal of Business Research</i> , <b>2018</b> , 82, 56-67	8.7	34
42	Assessing the performance of solar thermal driven membrane distillation for seawater desalination by computer simulation. <i>Journal of Membrane Science</i> , <b>2017</b> , 542, 133-142	9.6	33
41	Tyrannies of thrift: Governmentality and older, low-income people's energy efficiency narratives in the Illawarra, Australia. <i>Energy Policy</i> , <b>2016</b> , 90, 37-45	7.2	30
40	Hybrid Model Predictive Control of a Residential HVAC System with PVT Energy Generation and PCM Thermal Storage. <i>Energy Procedia</i> , <b>2015</b> , 83, 21-30	2.3	29
39	Thermal perceptions, preferences and adaptive behaviours of occupants of nursing homes. <i>Building and Environment</i> , <b>2018</b> , 132, 57-69	6.5	28
38	Factors governing mass transfer during membrane electrodialysis regeneration of LiCl solution for liquid desiccant dehumidification systems. <i>Sustainable Cities and Society</i> , <b>2017</b> , 28, 30-41	10.1	28
37	The ventilated filling box containing a vertically distributed source of buoyancy. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 646, 39-58	3.7	28
36	Implications of global warming for commercial building retrofitting in Australian cities. <i>Building and Environment</i> , <b>2014</b> , 74, 86-95	6.5	27
35	Hydrodynamic and energetic properties of a finite array of fixed oscillating water column wave energy converters. <i>Ocean Engineering</i> , <b>2014</b> , 88, 131-148	3.9	23

34	Formulation of a model predictive control algorithm to enhance the performance of a latent heat solar thermal system. <i>Energy Conversion and Management</i> , <b>2018</b> , 173, 438-449	10.6	22
33	Indoor Air Temperature and Agitation of Nursing Home Residents With Dementia. <i>American Journal of Alzheimers Disease and Other Dementias</i> , <b>2017</b> , 32, 272-281	2.5	19
32	Development and evaluation of a comfort-oriented control strategy for thermal management of mixed-mode ventilated buildings. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109347	7	18
31	Innovative interlocked soilment block for the construction of masonry to eliminate the settling mortar. <i>Construction and Building Materials</i> , <b>2014</b> , 52, 391-395	6.7	17
30	Retrofitting for wildfire resilience: What is the cost?. <i>International Journal of Disaster Risk Reduction</i> , <b>2017</b> , 21, 1-10	4.5	16
29	Experimental Investigation of Air Entrainment in Free-Falling Particle Plumes. <i>Particulate Science and Technology</i> , <b>2007</b> , 25, 357-373	2	15
28	Storying energy consumption: Collective video storytelling in energy efficiency social marketing. <i>Journal of Environmental Management</i> , <b>2018</b> , 213, 1-10	7.9	13
27	Look before you LIEEP. <i>Journal of Social Marketing</i> , <b>2018</b> , 8, 99-119	2.4	11
26	Thermal Comfort Evaluation of a Mixed-mode Ventilated Office Building with Advanced Natural Ventilation and Underfloor air Distribution Systems. <i>Energy Procedia</i> , <b>2017</b> , 111, 520-529	2.3	10
25	Thermal Environment and Thermal Sensations of Occupants of Nursing Homes: A Field Study. <i>Procedia Engineering</i> , <b>2017</b> , 180, 373-382		10
24	Theoretical Consideration of Superconducting Coils for Compact Superconducting Magnetic Energy Storage Systems. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	9
23	Thermodynamic analysis and design optimisation of a cross flow air to air membrane enthalpy exchanger. <i>Energy</i> , <b>2020</b> , 202, 117691	7.9	8
22	Impinging axisymmetric turbulent fountains. <i>Physics of Fluids</i> , <b>2007</b> , 19, 117101	4.4	8
21	Experimental investigation and performance evaluation of a mixed-flow air to air membrane enthalpy exchanger with different configurations. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114682	5.8	8
20	Towards an environmentally sustainable rental housing sector. <i>Housing Studies</i> , <b>2021</b> , 36, 397-420	1.5	7
19	Moisture diffusion measurement and evaluation for porous membranes used in enthalpy exchangers. <i>Energy Procedia</i> , <b>2019</b> , 160, 499-506	2.3	6
18	Qualitative analysis of the use of building performance simulation for retrofitting lower quality office buildings in Australia. <i>Energy and Buildings</i> , <b>2018</b> , 181, 84-94	7	6
17	Numerical analysis of indoor thermal comfort in a cross-ventilated space with top-hung windows. <i>Energy Procedia</i> , <b>2017</b> , 121, 222-229	2.3	5

16	A social marketer, a geographer, and an engineer walk into a bar. <i>Journal of Social Marketing</i> , <b>2017</b> , 7, 366-386	2.4	5
15	Source and boundary condition effects on unconfined and confined vertically distributed turbulent plumes. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 850, 1032-1065	3.7	5
14	Condensation risk prediction: Addition of a condensation model to BREDEM. <i>Building Services Engineering Research and Technology</i> , <b>1988</b> , 9, 117-125	2.3	5
13	Implementing Departmental Peer Observation of Teaching in Universities <b>2014</b> , 151-164		5
12	Development and analysis of vertical-axis wind turbines. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , <b>2010</b> , 277-302		4
11	Air-to-air enthalpy exchangers: Membrane modification using metal-organic frameworks, characterisation and performance assessment. <i>Journal of Cleaner Production</i> , <b>2021</b> , 293, 126157	10.3	4
10	Impact of a Pilot Draught Sealing Program on Public Housing Air Permeability. <i>Energy Procedia</i> , <b>2017</b> , 121, 18-25	2.3	3
9	Relationship Between Indoor Air Temperatures And Energy Bills For Low Income Homes In Australia. <i>Energy Procedia</i> , <b>2017</b> , 121, 174-181	2.3	2
8	The Senftleben effect [chance or chimera?]. <i>Electronics and Power</i> , <b>1984</b> , 30, 807		2
7	Indoor temperatures and energy use in NSW social housing. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111240	7	2
6	On the Efficiency of Oscillating Water Column (OWC) Devices in Converting Ocean Wave Energy to Electricity Under Weakly Nonlinear Waves <b>2012</b> ,		1
5	Feasibility Study of the Manufacturing Process of Soil-Cement Blocks for the Construction of Masonry Aiming to Eliminate the Settling Mortar Application. <i>Key Engineering Materials</i> , <b>2014</b> , 600, 166-174	0.4	0
4	Flow generated by colliding laminar natural convection boundary layers. <i>International Communications in Heat and Mass Transfer</i> , <b>2002</b> , 29, 67-76	5.8	0
3	Temperature distribution and fluid flow in an enclosure with localised heating and cooling. <i>International Communications in Heat and Mass Transfer</i> , <b>1995</b> , 22, 729-739	5.8	0
2	The Highlands Close group solar heating scheme. <i>International Journal of Ambient Energy</i> , <b>1986</b> , 7, 197-206		
1	Fin-type cold bridges: Heat loss and surface temperature. <i>Building Services Engineering Research and Technology</i> , <b>1987</b> , 8, 21-27	2.3	