

# Dong Chen

## List of Publications by Citations

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73  
papers

1,739  
citations

23  
h-index

40  
g-index

76  
ext. papers

2,000  
ext. citations

5  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
73	Assessment of climate change impact on residential building heating and cooling energy requirement in Australia. <i>Building and Environment</i> , <b>2010</b> , 45, 1663-1682	6.5	230
72	An experimental investigation of a solar chimney model with uniform wall heat flux. <i>Building and Environment</i> , <b>2003</b> , 38, 893-906	6.5	163
71	Urban vegetation for reducing heat related mortality. <i>Environmental Pollution</i> , <b>2014</b> , 192, 275-84	9.3	74
70	Climate change adaptation pathways for Australian residential buildings. <i>Building and Environment</i> , <b>2011</b> , 46, 2398-2412	6.5	71
69	Experimental study of the prediction of the ventilation flow rate through solar chimney with large gap-to-height ratios. <i>Building and Environment</i> , <b>2015</b> , 89, 150-159	6.5	64
68	The impact of heatwaves on mortality in Australia: a multicity study. <i>BMJ Open</i> , <b>2014</b> , 4, e003579	3	60
67	A balance-point method for assessing the effect of natural ventilation on indoor particle concentrations. <i>Atmospheric Environment</i> , <b>2003</b> , 37, 4277-4285	5.3	59
66	Evaluation of photovoltaic panel temperature in realistic scenarios. <i>Energy Conversion and Management</i> , <b>2016</b> , 108, 60-67	10.6	54
65	Some examples of solution multiplicity in natural ventilation. <i>Building and Environment</i> , <b>2001</b> , 36, 851-858	5.5	53
64	Global warming and its implication to emission reduction strategies for residential buildings. <i>Building and Environment</i> , <b>2011</b> , 46, 871-883	6.5	52
63	Experimental and CFD evidence of multiple solutions in a naturally ventilated building. <i>Indoor Air</i> , <b>2004</b> , 14, 43-54	5.4	51
62	Projecting future temperature-related mortality in three largest Australian cities. <i>Environmental Pollution</i> , <b>2016</b> , 208, 66-73	9.3	50
61	Bubble coverage and bubble resistance using cells with horizontal electrode. <i>Journal of Applied Electrochemistry</i> , <b>1998</b> , 28, 1141-1145	2.6	49
60	A model for predicting household end-use energy consumption and greenhouse gas emissions in Australia. <i>International Journal of Sustainable Building Technology and Urban Development</i> , <b>2013</b> , 4, 210-228		40
59	An international review of occupant-related aspects of building energy codes and standards. <i>Building and Environment</i> , <b>2020</b> , 179, 106906	6.5	38
58	Exploration of the health risk-based definition for heatwave: A multi-city study. <i>Environmental Research</i> , <b>2015</b> , 142, 696-702	7.9	37
57	Modelling study of the impact of thermal comfort criteria on housing energy use in Australia. <i>Applied Energy</i> , <b>2018</b> , 210, 152-166	10.7	37

56	Heat stress within energy efficient dwellings in Australia. <i>Architectural Science Review</i> , <b>2014</b> , 57, 227-236	6.6	36
55	Buoyancy-driven displacement natural ventilation in a single-zone building with three-level openings. <i>Building and Environment</i> , <b>2002</b> , 37, 295-303	6.5	34
54	Correlation of oxygen vacancy concentration and thermoelectric properties in Na <sub>0.73</sub> CoO <sub>2</sub> □ <i>Applied Physics Letters</i> , <b>2010</b> , 96, 141905	3.4	27
53	Enhanced air flow modelling for AccuRate TA nationwide house energy rating tool in Australia. <i>Building and Environment</i> , <b>2010</b> , 45, 1276-1286	6.5	27
52	Steady-state and transient thermal measurements of green roof substrates. <i>Energy and Buildings</i> , <b>2016</b> , 131, 123-131	7	24
51	Effective thermal conductivity of high porosity open-cell metal foams. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 147, 118974	4.9	24
50	Exploring the reaction kinetics of whey protein denaturation/aggregation by assuming the denaturation step is reversible. <i>Biochemical Engineering Journal</i> , <b>1998</b> , 2, 63-69	4.2	23
49	Effects of an oscillating interface on heat transfer. <i>Chemical Engineering Science</i> , <b>1997</b> , 52, 3265-3275	4.4	19
48	Natural ventilation in an enclosure induced by a heat source distributed uniformly over a vertical wall. <i>Building and Environment</i> , <b>2001</b> , 36, 493-501	6.5	19
47	Estimation of air infiltration for Australian housing energy analysis. <i>Journal of Building Physics</i> , <b>2015</b> , 39, 69-96	2.6	18
46	Shear rate dependent thermal conductivity measurement of two fruit juice concentrates. <i>Journal of Food Engineering</i> , <b>2003</b> , 57, 217-224	6	18
45	Comparison of Mass Transfer Performance for Various Single and Twin Impellers. <i>Chemical Engineering Research and Design</i> , <b>1999</b> , 77, 104-109	5.5	18
44	Substrate Depth, Vegetation and Irrigation Affect Green Roof Thermal Performance in a Mediterranean Type Climate. <i>Sustainability</i> , <b>2017</b> , 9, 1451	3.6	17
43	An integrated approach to modelling end-use energy and water consumption of Australian households. <i>Sustainable Cities and Society</i> , <b>2016</b> , 26, 344-353	10.1	17
42	Constructing weather data for building simulation considering urban heat island. <i>Building Services Engineering Research and Technology</i> , <b>2014</b> , 35, 69-82	2.3	16
41	Selection of climatic variables and time scales for future weather preparation in building heating and cooling energy predictions. <i>Energy and Buildings</i> , <b>2012</b> , 51, 223-233	7	16
40	Learning from thermal mavericks in Australia: comfort studies in Melbourne and Darwin. <i>Architectural Science Review</i> , <b>2015</b> , 58, 57-66	2.6	14
39	Dynamic three-dimensional heat transfer calculation for uninsulated slab-on-ground constructions. <i>Energy and Buildings</i> , <b>2013</b> , 60, 420-428	7	12

38	Thermal management of solar cells using a nano-coated heat pipe plate: an indoor experimental study. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 867-876	4.5	12
37	Multi-parameter sensitivity analysis: A design methodology applied to energy efficiency in temperate climate houses. <i>Energy and Buildings</i> , <b>2012</b> , 55, 668-673	7	12
36	The Impacts of Heatwaves on Mortality Differ with Different Study Periods: A Multi-City Time Series Investigation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134233	3.7	11
35	Experimental modelling of buoyancy-driven flows in buildings using a fine-bubble technique. <i>Building and Environment</i> , <b>2001</b> , 36, 447-455	6.5	11
34	Unified solutions for steady-state ground-coupled heat transfer. <i>Energy and Buildings</i> , <b>2014</b> , 68, 444-459	7	10
33	Heat Loss via Concrete Slab Floors in Australian Houses. <i>Procedia Engineering</i> , <b>2017</b> , 205, 108-115	7	10
32	Evaluation of a whole-house energy simulation tool against measured data. <i>Energy and Buildings</i> , <b>2018</b> , 171, 116-130	7	9
31	Periodically reversible supply/exhaust ventilation strategy. <i>Building and Environment</i> , <b>2011</b> , 46, 2590-2595	7.5	9
30	Local heat transfer for oscillatory flow in the presence of a single baffle within a channel. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 3177-3180	4.4	9
29	Feasibility of off-grid housing under current and future climates. <i>Applied Energy</i> , <b>2019</b> , 241, 196-211	10.7	8
28	A method to measure total atmospheric long-wave down-welling radiation using a low cost infrared thermometer tilted to the vertical. <i>Energy</i> , <b>2015</b> , 81, 233-244	7.9	8
27	Texturing Behaviors and Kinetics of NaCo <sub>2</sub> O <sub>4</sub> Thermoelectric Materials. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1908-1911	3.8	8
26	Simulation of Air Infiltration of Australian Housing and its Impact on Energy Consumption. <i>Energy Procedia</i> , <b>2015</b> , 78, 2717-2723	2.3	6
25	Steady-state heat transfer through a slab-on-ground floor over a constant temperature water table. <i>Heat and Mass Transfer</i> , <b>2013</b> , 49, 1795-1801	2.2	6
24	Summer cooling potential of urban vegetation – modeling study for Melbourne, Australia. <i>AIMS Environmental Science</i> , <b>2015</b> , 2, 648-667	1.9	6
23	Three-dimensional steady-state ground heat transfer for multi-zone buildings. <i>Journal of Building Performance Simulation</i> , <b>2015</b> , 8, 44-56	2.8	5
22	A simple analysis of heat transfer near an oscillating interface. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 947-950	4.4	5
21	Multi-criteria heatwave vulnerability assessment of residential wall systems. <i>Energy and Buildings</i> , <b>2013</b> , 66, 373-383	7	4

20	A correlation-based model for building ground-coupled heat loss calculation using Artificial Neural Network techniques. <i>Journal of Building Performance Simulation</i> , <b>2020</b> , 13, 48-58	2.8	3
19	Heat Loss Via Concrete Slab Floors With External Vertical Edge Insulations. <i>Heat Transfer Engineering</i> , <b>2020</b> , 41, 800-813	1.7	3
18	A Study of Agitated Gas-Liquid Reactors with Concave Blade Impellers <b>2000</b> , 43-56		2
17	Cost-Saving through Pre-Cooling: A Case Study of Sydney. <i>Environmental Sciences Proceedings</i> , <b>2021</b> , 12, 2	1	2
16	Performance gap in a multi-storey student accommodation complex built to Passivhaus standard. <i>Building and Environment</i> , <b>2021</b> , 194, 107704	6.5	2
15	Water table depth data for use in modelling residential building ground-coupled heat transfer. <i>Cleaner Engineering and Technology</i> , <b>2021</b> , 3, 100096	2.7	2
14	An experimental study on the thermal effects of slab-edge-insulation for slab-on-grade housing in a moderate Australian climate. <i>Energy and Buildings</i> , <b>2021</b> , 235, 110675	7	2
13	Numerical Study of Two Air Intake Strategies for a New Fire Laboratory. <i>Journal of Fire Protection Engineering</i> , <b>2007</b> , 17, 27-40		1
12	Fine bubble modelling of smoke flows. <i>Fire Safety Journal</i> , <b>2003</b> , 38, 285-298	3.3	1
11	On the impact of internal gains and comfort band on the effectiveness of building thermal zoning <b>2020</b> , 225, 110320-110320		1
10	Comparison of residential thermal comfort in two different climates in Australia. <i>Building and Environment</i> , <b>2022</b> , 211, 108706	6.5	1
9	Developing Australian green roofs: overview of a 5-year research program. <i>Acta Horticulturae</i> , <b>2016</b> , 345-352	0.3	1
8	A comparison of three models on air infiltration for residential building energy simulation. <i>International Journal of Ventilation</i> , <b>2016</b> , 1-13	1.1	1
7	Effects of substrate depth and native plants on green roof thermal performance in South-East Australia. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 588, 022057	0.3	0
6	A Machine Learning approach to enhance indoor thermal comfort in a changing climate. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2042, 012070	0.3	0
5	Consumer cost savings, improved thermal comfort, and reduced peak air conditioning demand through pre-cooling in Australian housing. <i>Energy and Buildings</i> , <b>2022</b> , 112172	7	0
4	Pathways for adaptation of low-income housing to extreme heat <b>2014</b> , 364-371		
3	Liquid-solid mass transfer from a wall in contact with a gas/liquid interface undergoing wave motion. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>1998</b> , 29, 563-567	2.5	

2 Climate Change Impacts on Housing Energy Consumption and its Adaptation Pathways. *Springer Environmental Science and Engineering*, **2013**, 207-221

1 Developing a window behaviour model incorporating A/C operation states. *Building and Environment*, **2022**, 214, 108953

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