

# Jason Woods

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

942  
citations

516710

16  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

648  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane processes for heating, ventilation, and air conditioning. Renewable and Sustainable Energy Reviews, 2014, 33, 290-304.	16.4	174
2	A desiccant-enhanced evaporative air conditioner: Numerical model and experiments. Energy Conversion and Management, 2013, 65, 208-220.	9.2	164
3	Rate capability and Ragone plots for phase change thermal energy storage. Nature Energy, 2021, 6, 295-302.	39.5	101
4	Impact of electric vehicle charging on the power demand of retail buildings. Advances in Applied Energy, 2021, 4, 100062.	13.2	58
5	Addressing energy storage needs at lower cost <i>via</i> on-site thermal energy storage in buildings. Energy and Environmental Science, 2021, 14, 5315-5329.	30.8	46
6	Generalized guidance for considering pore-size distribution in membrane distillation. Journal of Membrane Science, 2011, 368, 124-133.	8.2	44
7	Humidity's impact on greenhouse gas emissions from air conditioning. Joule, 2022, 6, 726-741.	24.0	42
8	Design and experimental characterization of a membrane-based absorption heat pump. Journal of Membrane Science, 2011, 378, 85-94.	8.2	35
9	Modeling of a membrane-based absorption heat pump. Journal of Membrane Science, 2009, 337, 113-124.	8.2	33
10	Heat transfer and pressure drop in spacer-filled channels for membrane energy recovery ventilators. Applied Thermal Engineering, 2013, 50, 868-876.	6.0	32
11	On the importance of the heat and mass transfer resistances in internally-cooled liquid desiccant dehumidifiers and regenerators. International Journal of Heat and Mass Transfer, 2018, 122, 324-340.	4.8	30
12	Effect of occupant behavior and air-conditioner controls on humidity in typical and high-efficiency homes. Energy and Buildings, 2018, 165, 364-378.	6.7	27
13	The energy saving potential of thermo-responsive desiccants for air dehumidification. Energy Conversion and Management, 2021, 244, 114520.	9.2	21
14	Zero Energy Communities with Central Solar Plants using Liquid Desiccants and Local Storage. Energy Procedia, 2012, 30, 55-64.	1.8	19
15	Effective moisture penetration depth model for residential buildings: Sensitivity analysis and guidance on model inputs. Energy and Buildings, 2018, 165, 216-232.	6.7	17
16	Regression-based approach to modeling emerging HVAC technologies in EnergyPlus: A case study using a Vuilleumier-cycle heat pump. Energy and Buildings, 2019, 186, 195-207.	6.7	17
17	Design and performance evaluation of a dual-circuit thermal energy storage module for air conditioners. Applied Energy, 2021, 292, 116843.	10.1	14
18	Field measurement of moisture-buffering model inputs for residential buildings. Energy and Buildings, 2016, 117, 91-98.	6.7	13

#	ARTICLE	IF	CITATIONS
19	Sensitivity of occupant comfort models to humidity and their effect on cooling energy use. Building and Environment, 2019, 162, 106240.	6.9	11
20	Heat and mass transfer in liquid-to-liquid membrane contactors: Design approach and model applicability. International Journal of Heat and Mass Transfer, 2013, 59, 46-57.	4.8	10
21	Reduced-order modeling method for phase-change thermal energy storage heat exchangers. Energy Conversion and Management, 2022, 263, 115692.	9.2	10
22	Frequency Regulation Services from Connected Residential Devices. , 2016, , .		6
23	An analytical method for identifying synergies between behind-the-meter battery and thermal energy storage. Journal of Energy Storage, 2022, 50, 104216.	8.1	5
24	Passive Cooling of Photovoltaics with Desiccants. , 2017, , .		3