

# Ming Jun Huang

## List of Publications by Year in descending order

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31  
papers

3,030  
citations

279487

23  
h-index

454577

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal regulation of building-integrated photovoltaics using phase change materials. International Journal of Heat and Mass Transfer, 2004, 47, 2715-2733.	2.5	388
2	Evaluation of phase change materials for thermal regulation enhancement of building integrated photovoltaics. Solar Energy, 2010, 84, 1601-1612.	2.9	368
3	Phase change materials for limiting temperature rise in building integrated photovoltaics. Solar Energy, 2006, 80, 1121-1130.	2.9	307
4	Enhancing the performance of building integrated photovoltaics. Solar Energy, 2011, 85, 1629-1664.	2.9	274
5	Natural convection in an internally finned phase change material heat sink for the thermal management of photovoltaics. Solar Energy Materials and Solar Cells, 2011, 95, 1598-1603.	3.0	241
6	Increased photovoltaic performance through temperature regulation by phase change materials: Materials comparison in different climates. Solar Energy, 2015, 115, 264-276.	2.9	172
7	Energy and Cost Saving of a Photovoltaic-Phase Change Materials (PV-PCM) System through Temperature Regulation and Performance Enhancement of Photovoltaics. Energies, 2014, 7, 1318-1331.	1.6	162
8	The effect of using two PCMs on the thermal regulation performance of BIPV systems. Solar Energy Materials and Solar Cells, 2011, 95, 957-963.	3.0	160
9	Characterization of phase change materials for thermal control of photovoltaics using Differential Scanning Calorimetry and Temperature History Method. Energy Conversion and Management, 2014, 81, 322-329.	4.4	134
10	Efficient energy storage technologies for photovoltaic systems. Solar Energy, 2019, 192, 144-168.	2.9	103
11	The application of a validated numerical model to predict the energy conservation potential of using phase change materials in the fabric of a building. Solar Energy Materials and Solar Cells, 2006, 90, 1951-1960.	3.0	80
12	Performance analysis of solar assisted heat pump coupled with build-in PCM heat storage based on PV/T panel. Solar Energy, 2020, 197, 279-291.	2.9	77
13	Comparative techno-economic analysis of biomass fuelled combined heat and power for commercial buildings. Applied Energy, 2013, 112, 518-525.	5.1	73
14	Microencapsulated phase change slurries for thermal energy storage in a residential solar energy system. Renewable Energy, 2011, 36, 2932-2939.	4.3	72
15	Defrost cycle performance for a circular shape evaporator air source heat pump. International Journal of Refrigeration, 2008, 31, 444-452.	1.8	48
16	Comparison of Predictions Made Using a New 3D Phase Change Material Thermal Control Model with Experimental Measurements and Predictions Made Using a Validated 2D Model. Heat Transfer Engineering, 2007, 28, 31-37.	1.2	41
17	Performance improvement of vapor-injection heat pump system by employing PVT collector/evaporator for residential heating in cold climate region. Energy, 2021, 219, 119636.	4.5	40
18	Advanced air source heat pumps for UK and European domestic buildings. Applied Thermal Engineering, 2011, 31, 3713-3719.	3.0	39

#	ARTICLE	IF	CITATIONS
19	Techno-economic assessment of cascade air-to-water heat pump retrofitted into residential buildings using experimentally validated simulations. <i>Applied Energy</i> , 2019, 250, 633-652.	5.1	35
20	Phase change materials in building integrated space heating and domestic hot water applications: A review. <i>Journal of Energy Storage</i> , 2022, 54, 105227.	3.9	33
21	Theoretical analysis on efficiency factor of direct expansion PVT module for heat pump application. <i>Solar Energy</i> , 2020, 206, 677-694.	2.9	31
22	Tariff-based load shifting for domestic cascade heat pump with enhanced system energy efficiency and reduced wind power curtailment. <i>Applied Energy</i> , 2020, 257, 113976.	5.1	30
23	Performance analysis of a residential heating system using borehole heat exchanger coupled with solar assisted PV/T heat pump. <i>Renewable Energy</i> , 2020, 160, 160-175.	4.3	29
24	Techno-economic Modelling of Large Scale Compressed Air Energy Storage Systems. <i>Energy Procedia</i> , 2017, 105, 4034-4039.	1.8	19
25	Analysis on field trial of high temperature heat pump integrated with thermal energy storage in domestic retrofit installation. <i>Applied Thermal Engineering</i> , 2018, 143, 650-659.	3.0	18
26	The experimental analysis of the effect of ambient factors on the defrosting of economised vapour injection compressor air source heat pump in marine climates. <i>International Journal of Refrigeration</i> , 2013, 36, 820-827.	1.8	13
27	Experimental study of a diesel engine heat pump in heating mode for domestic retrofit application. <i>Applied Thermal Engineering</i> , 2016, 98, 522-531.	3.0	12
28	High Temperature Air Source Heat Pump Coupled with Thermal Energy Storage: Comparative Performances and Retrofit Analysis. <i>Energy Procedia</i> , 2019, 158, 3878-3885.	1.8	10
29	Improving the heat retention of integrated collector/storage solar water heaters using Phase Change Materials Slurries. <i>International Journal of Ambient Energy</i> , 2007, 28, 89-98.	1.4	9
30	Performance analysis of diesel engine heat pump incorporated with heat recovery. <i>Applied Thermal Engineering</i> , 2016, 108, 181-191.	3.0	8
31	Performance Investigation of an Air Source Heat Pump for Residential Heat Supply Through PCM Underfloor Heating. , 2019, , .		0