Tingzhen Ming

List of Publications by Year
in descending order

106	4,243	94433	123424
papers	citations	37 h-index	61 g-index

107	107	107	2988
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The thermal analysis of the heat dissipation system of the charging module integrated with ultra-thin heat pipes. Energy and Built Environment, 2023, 4, 506-515.	5.9	9
2	The effect of noise barriers on viaducts on pollutant dispersion in complex street canyons. Energy and Built Environment, 2023, 4, 589-600.	5.9	2
3	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. Building Simulation, 2022, 15, 1227-1241.	5.6	9
4	Perspectives on removal of atmospheric methane. Advances in Applied Energy, 2022, 5, 100085.	13.2	27
5	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. Journal of Thermal Science, 2022, 31, 712-726.	1.9	2
6	Meet the Section Editor. Micro and Nanosystems, 2022, 14, 2-2.	0.6	0
7	A system level optimization of on-chip thermoelectric cooling via Taguchi-Grey method. Applied Thermal Engineering, 2022, 214, 118845.	6.0	10
8	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. Journal of Thermal Science, 2021, 30, 1526-1540.	1.9	9
9	Assessment of pollutant dispersion in urban street canyons based on field synergy theory. Atmospheric Pollution Research, 2021, 12, 341-356.	3.8	9
10	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. Building Simulation, 2021, 14, 391-405.	5.6	13
11	Review on pollutant dispersion in urban areas-part A: Effects of mechanical factors and urban morphology. Building and Environment, 2021, 190, 107534.	6.9	35
12	Analysis and modeling of dust accumulation-composed spherical and cubic particles on PV module relative transmittance. Sustainable Energy Technologies and Assessments, 2021, 44, 101015.	2.7	9
13	Mitigating air pollution strategies based on solar chimneys. Solar Energy, 2021, 218, 11-27.	6.1	18
14	A nature-based negative emissions technology able to remove atmospheric methane and other greenhouse gases. Atmospheric Pollution Research, 2021, 12, 101035.	3.8	23
15	Porous media: A faster numerical simulation method applicable to real urban communities. Urban Climate, 2021, 38, 100865.	5.7	11
16	Review onÂpollutant dispersion in urban areas-part B:ÂLocal mitigation strategies, optimization framework, and evaluation theory. Building and Environment, 2021, 198, 107890.	6.9	16
17	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. Energies, 2021, 14, 4681.	3.1	9
18	Solar chimney power plant integrated with a photocatalytic reactor to remove atmospheric methane: A numerical analysis. Solar Energy, 2021, 226, 101-111.	6.1	18

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19	Feasibility of Solar Updraft Towers as Photocatalytic Reactors for Removal of Atmospheric Methaneâ€"The Role of Catalysts and Rate Limiting Steps. Frontiers in Chemistry, 2021, 9, 745347.	3.6	6
20	Experimental investigation and prediction of changes in thermal conductivity of carbon nanotube nanofluid. International Communications in Heat and Mass Transfer, 2021, 127, 105526.	5.6	8
21	Unsteady RANS simulation of fluid dynamic and heat transfer in an oblique self-oscillating fluidic oscillator array. International Journal of Heat and Mass Transfer, 2021, 177, 121515.	4.8	7
22	Experimental analysis of the optical loss of a dusty Fresnel lens with a novel solar flux test system. Sustainable Energy Technologies and Assessments, 2021, 48, 101656.	2.7	1
23	Multi-objective optimization in a finite time thermodynamic method for dish-Stirling by branch and bound method and MOPSO algorithm. Frontiers in Energy, 2020, 14, 649-665.	2.3	14
24	Investigating the effect of using <scp>PCM</scp> in building materials for energy saving: Case study of Sharif Energy Research Institute. Energy Science and Engineering, 2020, 8, 959-972.	4.0	31
25	Heat transfer enhancement of a microchannel heat sink with the combination of impinging jets, dimples, and side outlets. Journal of Thermal Analysis and Calorimetry, 2020, 141, 45-56.	3.6	36
26	Large-scale freshwater generation from the humid air using the modified solar chimney. Renewable Energy, 2020, 146, 1325-1336.	8.9	18
27	Solar thermal performance of two innovative configurations of air-vacuum layered triple glazed windows. Renewable Energy, 2020, 150, 167-175.	8.9	30
28	The effect of turbulence induced by different kinds of moving vehicles in street canyons. Sustainable Cities and Society, 2020, 54, 102015.	10.4	19
29	Desalination of seawater by spray freezing in a natural draft tower. Desalination, 2020, 496, 114700.	8.2	16
30	The effect of exhaust emissions from a group of moving vehicles on pollutant dispersion in the street canyons. Building and Environment, 2020, 181, 107120.	6.9	27
31	Urban morphology and building heating energy consumption: Evidence from Harbin, a severe cold region city. Energy and Buildings, 2020, 224, 110143.	6.7	61
32	Thermoelectric and exergy output performance of a Fresnel-based HCPV/T at different dust densities. Renewable Energy, 2020, 159, 801-811.	8.9	13
33	Effect of traffic tidal flow on pollutant dispersion in various street canyons and corresponding mitigation strategies. Energy and Built Environment, 2020, 1, 242-253.	5.9	26
34	Effects of thermal and electrical contact resistances on the performance of a multi-couple thermoelectric cooler with non-ideal heat dissipation. Applied Thermal Engineering, 2020, 169, 114933.	6.0	18
35	The effect of dust accumulation on the cleanliness factor of a parabolic trough solar concentrator. Renewable Energy, 2020, 152, 529-539.	8.9	42
36	Transient thermal stress analysis of a thermoelectric cooler under pulsed thermal loading. Applied Thermal Engineering, 2019, 162, 114240.	6.0	22

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37	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. Energy Science and Engineering, 2019, 7, 230-254.	4.0	28
38	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. ACS Applied Materials & Interfaces, 2019, 11, 24795-24801.	8.0	7
39	Proanthocyanidinâ€Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. Macromolecular Materials and Engineering, 2019, 304, 1900033.	3.6	1
40	Effect of moving vehicles on pollutant dispersion in street canyon by using dynamic mesh updating method. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 187, 15-25.	3.9	32
41	Thermo-mechanical analysis on a compact thermoelectric cooler. Energy, 2019, 172, 1211-1224.	8.8	40
42	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. Energy Science and Engineering, 2019, 7, 30-65.	4.0	87
43	Renewable energy harvesting with the application of nanotechnology: A review. International Journal of Energy Research, 2019, 43, 1387-1410.	4.5	125
44	Geoengineering: Sunlight reflection methods and negative emissions technologies for greenhouse gas removal. , 2019, , 581-636.		1
45	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. International Journal of Low-Carbon Technologies, 2019, 14, 10-22.	2.6	15
46	Numerical simulation on a compact thermoelectric cooler for the optimized design. Applied Thermal Engineering, 2019, 146, 815-825.	6.0	65
47	Numerical simulation of solar chimney power plant adopting the fan model. Renewable Energy, 2018, 126, 1093-1101.	8.9	38
48	Heat transfer network for a parabolic trough collector as a heat collecting element using nanofluid. Renewable Energy, 2018, 123, 439-449.	8.9	35
49	Multi-objective performance optimization of irreversible molten carbonate fuel cellâ€“Braysson heat engine and thermodynamic analysis with ecological objective approach. Energy, 2018, 144, 707-722.	8.8	52
50	Numerical simulation of pollutant dispersion characteristics in a three-dimensional urban traffic system. Atmospheric Pollution Research, 2018, 9, 735-746.	3.8	14
51	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. Energy Reports, 2018, 4, 243-251.	5.1	59
52	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. Thermal Science and Engineering Progress, 2018, 6, 72-86.	2.7	62
53	Multiâ€objective performance optimization of irreversible molten carbonate fuel cellâ€“Stirling heat engineâ€“reverse osmosis and thermodynamic assessment with ecological objective approach. Energy Science and Engineering, 2018, 6, 783-796.	4.0	14
54	Solar power technology for electricity generation: A critical review. Energy Science and Engineering, 2018, 6, 340-361.	4.0	251

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55	Thermo-economic analysis and multi-objective optimization of micro-CHP Stirling system for different climates of Iran. International Journal of Low-Carbon Technologies, 2018, 13, 388-403.	2.6	8
56	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. Energy Science and Engineering, 2018, 6, 624-642.	4.0	11
57	A review on solarâ€assisted gas turbines. Energy Science and Engineering, 2018, 6, 658-674.	4.0	49
58	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. Atmosphere, 2018, 9, 82.	2.3	39
59	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets â€" Part A: Mathematical Model and the Influence of Dimple Radius. Journal of Thermal Science, 2018, 27, 195-202.	1.9	32
60	Optimization of Dimples in Microchannel Heat Sink with Impinging Jetsâ€"Part B: the Influences of Dimple Height and Arrangement. Journal of Thermal Science, 2018, 27, 321-330.	1.9	26
61	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. Energy Science and Engineering, 2018, 6, 506-522.	4.0	57
62	Removal of non-CO 2 greenhouse gases by large-scale atmospheric solar photocatalysis. Progress in Energy and Combustion Science, 2017, 60, 68-96.	31.2	117
63	A Solar Chimney with an Inverted U-Type Cooling Tower to Mitigate Urban Air Pollution. , 2017, , 113-126.		0
64	A moist air condensing device for sustainable energy production and water generation. Energy Conversion and Management, 2017, 138, 638-650.	9.2	43
65	Heat transfer enhancement on a microchannel heat sink with impinging jets and dimples. International Journal of Heat and Mass Transfer, 2017, 112, 113-124.	4.8	109
66	Numerical analysis on a solar chimney with an inverted U-type cooling tower to mitigate urban air pollution. Solar Energy, 2017, 147, 68-82.	6.1	26
67	A review of the theory and practice of regional resilience. Sustainable Cities and Society, 2017, 29, 86-96.	10.4	55
68	Numerical analysis of seawater desalination based on a solar chimney power plant. Applied Energy, 2017, 208, 1258-1273.	10.1	56
69	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO 2 Brayton cycle hybrid system. Energy Conversion and Management, 2017, 153, 538-556.	9.2	76
70	CFD analysis on the performance of a solar chimney power plant system: Case study in Algeria. International Journal of Green Energy, 2017, 14, 971-982.	3.8	35
71	Analytical and numerical investigation on a new compact thermoelectric generator. Energy Conversion and Management, 2017, 132, 261-271.	9.2	56
72	Solar updraft power plant system: A brief review and a case study on a new system with radial partition walls in its collector. Renewable and Sustainable Energy Reviews, 2017, 69, 472-487.	16.4	41

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73	Numerical analysis on the thermal behavior of a segmented thermoelectric generator. International Journal of Hydrogen Energy, 2017, 42, 3521-3535.	7.1	42
74	The Impact of Opening Sizing on the Airflow Distribution of Double-skin Facade. Procedia Engineering, 2017, 205, 4111-4116.	1.2	6
75	Numerical Simulation on the Effect of Vehicle Movement on Pollutant Dispersion in Urban Street. Procedia Engineering, 2017, 205, 2303-2310.	1.2	20
76	Climate engineering by mimicking natural dust climate control: the iron salt aerosol method. Earth System Dynamics, 2017, 8, 1-54.	7.1	40
77	Experimental investigation of a solar chimney prototype. , 2016, , 209-220.		0
78	The influence of ambient crosswind on the performance of solar updraft power plant system. , 2016, , 163-207.		0
79	Fluid flow and heat transfer of solar chimney power plant. , 2016, , 95-125.		3
80	Fighting global warming by GHG removal: Destroying CFCs and HCFCs in solar-wind power plant hybrids producing renewable energy with no-intermittency. International Journal of Greenhouse Gas Control, 2016, 49, 449-472.	4.6	66
81	Freshwater generation from a solar chimney power plant. Energy Conversion and Management, 2016, 113, 189-200.	9.2	53
82	Fighting global warming by greenhouse gas removal: destroying atmospheric nitrous oxide thanks to synergies between two breakthrough technologies. Environmental Science and Pollution Research, 2016, 23, 6119-6138.	5.3	43
83	Transient thermal behavior of a microchannel heat sink with multiple impinging jets. Journal of Zhejiang University: Science A, 2015, 16, 894-909.	2.4	7
84	Modeling Thermal Comfort and Optimizing Local Renewal Strategiesâ€"A Case Study of Dazhimen Neighborhood in Wuhan City. Sustainability, 2015, 7, 3109-3128.	3.2	15
85	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. Energies, 2015, 8, 12584-12602.	3.1	31
86	Thermal analysis on a segmented thermoelectric generator. Energy, 2015, 80, 388-399.	8.8	77
87	Numerical analysis on the thermal environment of an old city district during urban renewal. Energy and Buildings, 2015, 89, 18-31.	6.7	32
88	A Zero Energy Lab as a validation testbed: Concept, features, and performance. International Journal of Hydrogen Energy, 2015, 40, 12854-12867.	7.1	6
89	Thermal and hydraulic performances of a tube filled with various thermal conductivities of porous media. International Journal of Heat and Mass Transfer, 2015, 81, 784-796.	4.8	13
90	Analysis of non-uniform heat loads on evaporators with loop heat pipes. International Journal of Heat and Mass Transfer, 2014, 75, 313-326.	4.8	15

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91	Fighting global warming by climate engineering: Is the Earth radiation management and the solar radiation management any option for fighting climate change?. Renewable and Sustainable Energy Reviews, 2014, 31, 792-834.	16.4	148
92	Numerical analysis on an industrial-scaled solar updraft power plant system with ambient crosswind. Renewable Energy, 2014, 68, 662-676.	8.9	34
93	Numerical simulations on the temperature gradient and thermal stress of a thermoelectric power generator. Energy Conversion and Management, 2014, 88, 915-927.	9.2	87
94	Chimney shape numerical study for solar chimney power generating systems. International Journal of Energy Research, 2013, 37, 310-322.	4.5	81
95	Numerical analysis on the solar updraft power plant system with a blockage. Solar Energy, 2013, 98, 58-69.	6.1	40
96	Fighting global warming by photocatalytic reduction of CO2 using giant photocatalytic reactors. Renewable and Sustainable Energy Reviews, 2013, 19, 82-106.	16.4	131
97	Analysis of output power smoothing method of the solar chimney power generating system. International Journal of Energy Research, 2013, 37, 1657-1668.	4.5	29
98	Large-eddy simulation of thermal fatigue in a mixing tee. International Journal of Heat and Fluid Flow, 2012, 37, 93-108.	2.4	21
99	Numerical simulation of the thermal hydraulic performance of a plate pin fin heat sink. Applied Thermal Engineering, 2012, 48, 81-88.	6.0	65
100	Numerical analysis on the influence of ambient crosswind on the performance of solar updraft power plant system. Renewable and Sustainable Energy Reviews, 2012, 16, 5567-5583.	16.4	74
101	Numerical analysis on the performance of solar chimney power plant system. Energy Conversion and Management, 2011, 52, 876-883.	9.2	148
102	Physical quantity synergy in laminar flow field and its application in heat transfer enhancement. International Journal of Heat and Mass Transfer, 2009, 52, 4669-4672.	4.8	114
103	Numerical simulation of the solar chimney power plant systems coupled with turbine. Renewable Energy, 2008, 33, 897-905.	8.9	122
104	Numerical analysis of flow and heat transfer characteristics in solar chimney power plants with energy storage layer. Energy Conversion and Management, 2008, 49, 2872-2879.	9.2	132
105	Analytical and numerical investigation of the solar chimney power plant systems. International Journal of Energy Research, 2006, 30, 861-873.	4.5	158
106	Analysis of the Light Concentration Loss of a Fresnel CPV/T System after Dust Accumulation. Journal of Thermal Science, 0, , 1.	1.9	3