

Tingzhen Ming

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

2,812
citations

30
h-index

49
g-index

107
ext. papers

3,533
ext. citations

6.3
avg, IF

5.63
L-index

#	Paper	IF	Citations
104	Perspectives on removal of atmospheric methane. <i>Advances in Applied Energy</i> , 2022 , 5, 100085		0
103	Meet the Section Editor. <i>Micro and Nanosystems</i> , 2022 , 14, 2-2	0.6	
102	Experimental analysis of the optical loss of a dusty Fresnel lens with a novel solar flux test system. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 48, 101656	4.7	0
101	Review on pollutant dispersion in urban areas-part A: Effects of mechanical factors and urban morphology. <i>Building and Environment</i> , 2021 , 190, 107534	6.5	10
100	Analysis and modeling of dust accumulation-composed spherical and cubic particles on PV module relative transmittance. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 101015	4.7	5
99	Mitigating air pollution strategies based on solar chimneys. <i>Solar Energy</i> , 2021 , 218, 11-27	6.8	6
98	A nature-based negative emissions technology able to remove atmospheric methane and other greenhouse gases. <i>Atmospheric Pollution Research</i> , 2021 , 12, 101035	4.5	4
97	Porous media: A faster numerical simulation method applicable to real urban communities. <i>Urban Climate</i> , 2021 , 38, 100865	6.8	4
96	Assessment of pollutant dispersion in urban street canyons based on field synergy theory. <i>Atmospheric Pollution Research</i> , 2021 , 12, 341-356	4.5	2
95	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. <i>Building Simulation</i> , 2021 , 14, 391-405	3.9	6
94	Review on pollutant dispersion in urban areas-part B: Local mitigation strategies, optimization framework, and evaluation theory. <i>Building and Environment</i> , 2021 , 198, 107890	6.5	6
93	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. <i>Energies</i> , 2021 , 14, 4681	3.1	3
92	Solar chimney power plant integrated with a photocatalytic reactor to remove atmospheric methane: A numerical analysis. <i>Solar Energy</i> , 2021 , 226, 101-111	6.8	3
91	Feasibility of Solar Updraft Towers as Photocatalytic Reactors for Removal of Atmospheric Methane-The Role of Catalysts and Rate Limiting Steps. <i>Frontiers in Chemistry</i> , 2021 , 9, 745347	5	0
90	Experimental investigation and prediction of changes in thermal conductivity of carbon nanotube nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105526	5.8	0
89	Unsteady RANS simulation of fluid dynamic and heat transfer in an oblique self-oscillating fluidic oscillator array. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 177, 121515	4.9	1
88	Urban morphology and building heating energy consumption: Evidence from Harbin, a severe cold region city. <i>Energy and Buildings</i> , 2020 , 224, 110143	7	20

87	Thermoelectric and exergy output performance of a Fresnel-based HCPV/T at different dust densities. <i>Renewable Energy</i> , 2020 , 159, 801-811	8.1	7
86	Effect of traffic tidal flow on pollutant dispersion in various street canyons and corresponding mitigation strategies. <i>Energy and Built Environment</i> , 2020 , 1, 242-253	6.3	15
85	Effects of thermal and electrical contact resistances on the performance of a multi-couple thermoelectric cooler with non-ideal heat dissipation. <i>Applied Thermal Engineering</i> , 2020 , 169, 114933	5.8	6
84	The effect of dust accumulation on the cleanliness factor of a parabolic trough solar concentrator. <i>Renewable Energy</i> , 2020 , 152, 529-539	8.1	18
83	Solar thermal performance of two innovative configurations of air-vacuum layered triple glazed windows. <i>Renewable Energy</i> , 2020 , 150, 167-175	8.1	20
82	The effect of turbulence induced by different kinds of moving vehicles in street canyons. <i>Sustainable Cities and Society</i> , 2020 , 54, 102015	10.1	11
81	Desalination of seawater by spray freezing in a natural draft tower. <i>Desalination</i> , 2020 , 496, 114700	10.3	5
80	The effect of exhaust emissions from a group of moving vehicles on pollutant dispersion in the street canyons. <i>Building and Environment</i> , 2020 , 181, 107120	6.5	15
79	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. <i>Journal of Thermal Science</i> , 2020 , 30, 1526	1.9	2
78	Multi-objective optimization in a finite time thermodynamic method for dish-Stirling by branch and bound method and MOPSO algorithm. <i>Frontiers in Energy</i> , 2020 , 14, 649-665	2.6	8
77	Investigating the effect of using PCM in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , 2020 , 8, 959-972	3.4	19
76	Heat transfer enhancement of a microchannel heat sink with the combination of impinging jets, dimples, and side outlets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 45-56	4.1	17
75	Large-scale freshwater generation from the humid air using the modified solar chimney. <i>Renewable Energy</i> , 2020 , 146, 1325-1336	8.1	7
74	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. <i>Energy Science and Engineering</i> , 2019 , 7, 230-254	3.4	17
73	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24795-24801	9.5	3
72	Proanthocyanidin-Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900033	3.9	1
71	Effect of moving vehicles on pollutant dispersion in street canyon by using dynamic mesh updating method. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 187, 15-25	3.7	20
70	Transient thermal stress analysis of a thermoelectric cooler under pulsed thermal loading. <i>Applied Thermal Engineering</i> , 2019 , 162, 114240	5.8	9

69	Thermo-mechanical analysis on a compact thermoelectric cooler. <i>Energy</i> , 2019 , 172, 1211-1224	7.9	25
68	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , 2019 , 7, 30-65	3.4	48
67	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019 , 43, 1387-1410	4.5	72
66	Geoengineering: Sunlight reflection methods and negative emissions technologies for greenhouse gas removal 2019 , 581-636		
65	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. <i>International Journal of Low-Carbon Technologies</i> , 2019 , 14, 10-22	2.8	11
64	Numerical simulation on a compact thermoelectric cooler for the optimized design. <i>Applied Thermal Engineering</i> , 2019 , 146, 815-825	5.8	30
63	Numerical simulation of solar chimney power plant adopting the fan model. <i>Renewable Energy</i> , 2018 , 126, 1093-1101	8.1	28
62	Heat transfer network for a parabolic trough collector as a heat collecting element using nanofluid. <i>Renewable Energy</i> , 2018 , 123, 439-449	8.1	27
61	Multi-objective performance optimization of irreversible molten carbonate fuel cellBraysson heat engine and thermodynamic analysis with ecological objective approach. <i>Energy</i> , 2018 , 144, 707-722	7.9	46
60	Numerical simulation of pollutant dispersion characteristics in a three-dimensional urban traffic system. <i>Atmospheric Pollution Research</i> , 2018 , 9, 735-746	4.5	11
59	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. <i>Energy Reports</i> , 2018 , 4, 243-251	4.6	51
58	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 72-86	3.6	51
57	Optimization of Dimples in Microchannel Heat Sink with Impinging JetsPart B: the Influences of Dimple Height and Arrangement. <i>Journal of Thermal Science</i> , 2018 , 27, 321-330	1.9	17
56	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. <i>Energy Science and Engineering</i> , 2018 , 6, 506-522	3.4	38
55	Multi-objective performance optimization of irreversible molten carbonate fuel cellStirling heat engineReverse osmosis and thermodynamic assessment with ecological objective approach. <i>Energy Science and Engineering</i> , 2018 , 6, 783-796	3.4	13
54	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , 2018 , 6, 340-361	3.4	146
53	Thermo-economic analysis and multi-objective optimization of micro-CHP Stirling system for different climates of Iran. <i>International Journal of Low-Carbon Technologies</i> , 2018 , 13, 388-403	2.8	7
52	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. <i>Energy Science and Engineering</i> , 2018 , 6, 624-642	3.4	10

51	A review on solar-assisted gas turbines. <i>Energy Science and Engineering</i> , 2018 , 6, 658-674	3.4	28
50	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , 2018 , 9, 82	2.7	26
49	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets [Part A: Mathematical Model and the Influence of Dimple Radius. <i>Journal of Thermal Science</i> , 2018 , 27, 195-202	1.9	26
48	Removal of non-CO2 greenhouse gases by large-scale atmospheric solar photocatalysis. <i>Progress in Energy and Combustion Science</i> , 2017 , 60, 68-96	33.6	72
47	A Solar Chimney with an Inverted U-Type Cooling Tower to Mitigate Urban Air Pollution 2017 , 113-126		
46	A moist air condensing device for sustainable energy production and water generation. <i>Energy Conversion and Management</i> , 2017 , 138, 638-650	10.6	32
45	Heat transfer enhancement on a microchannel heat sink with impinging jets and dimples. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 112, 113-124	4.9	63
44	Numerical analysis on a solar chimney with an inverted U-type cooling tower to mitigate urban air pollution. <i>Solar Energy</i> , 2017 , 147, 68-82	6.8	17
43	A review of the theory and practice of regional resilience. <i>Sustainable Cities and Society</i> , 2017 , 29, 86-96	10.1	30
42	Numerical analysis of seawater desalination based on a solar chimney power plant. <i>Applied Energy</i> , 2017 , 208, 1258-1273	10.7	41
41	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO2 Brayton cycle hybrid system. <i>Energy Conversion and Management</i> , 2017 , 153, 538-556	10.6	55
40	Climate engineering by mimicking natural dust climate control: the iron salt aerosol method. <i>Earth System Dynamics</i> , 2017 , 8, 1-54	4.8	26
39	CFD analysis on the performance of a solar chimney power plant system: Case study in Algeria. <i>International Journal of Green Energy</i> , 2017 , 14, 971-982	3	18
38	Analytical and numerical investigation on a new compact thermoelectric generator. <i>Energy Conversion and Management</i> , 2017 , 132, 261-271	10.6	44
37	Solar updraft power plant system: A brief review and a case study on a new system with radial partition walls in its collector. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 69, 472-487	16.2	31
36	Numerical analysis on the thermal behavior of a segmented thermoelectric generator. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3521-3535	6.7	32
35	The Impact of Opening Sizing on the Airflow Distribution of Double-skin Facade. <i>Procedia Engineering</i> , 2017 , 205, 4111-4116		4
34	Numerical Simulation on the Effect of Vehicle Movement on Pollutant Dispersion in Urban Street. <i>Procedia Engineering</i> , 2017 , 205, 2303-2310		14

33	Climate engineering by mimicking the natural dust climate control: the Iron Salt Aerosols method 2016 ,		1
32	Fighting global warming by GHG removal: Destroying CFCs and HCFCs in solar-wind power plant hybrids producing renewable energy with no-intermittency. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 49, 449-472	4.2	51
31	Freshwater generation from a solar chimney power plant. <i>Energy Conversion and Management</i> , 2016 , 113, 189-200	10.6	43
30	Fighting global warming by greenhouse gas removal: destroying atmospheric nitrous oxide thanks to synergies between two breakthrough technologies. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 6119-38	5.1	26
29	Experimental investigation of a solar chimney prototype 2016 , 209-220		
28	The influence of ambient crosswind on the performance of solar updraft power plant system 2016 , 163-207		
27	Fluid flow and heat transfer of solar chimney power plant 2016 , 95-125		3
26	A Zero Energy Lab as a validation testbed: Concept, features, and performance. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12854-12867	6.7	4
25	Thermal and hydraulic performances of a tube filled with various thermal conductivities of porous media. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 784-796	4.9	10
24	Transient thermal behavior of a microchannel heat sink with multiple impinging jets. <i>Journal of Zhejiang University: Science A</i> , 2015 , 16, 894-909	2.1	6
23	Modeling Thermal Comfort and Optimizing Local Renewal Strategies—A Case Study of Dazhimen Neighborhood in Wuhan City. <i>Sustainability</i> , 2015 , 7, 3109-3128	3.6	10
22	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. <i>Energies</i> , 2015 , 8, 12584-12602	3.1	27
21	Thermal analysis on a segmented thermoelectric generator. <i>Energy</i> , 2015 , 80, 388-399	7.9	64
20	Numerical analysis on the thermal environment of an old city district during urban renewal. <i>Energy and Buildings</i> , 2015 , 89, 18-31	7	25
19	Fighting global warming by climate engineering: Is the Earth radiation management and the solar radiation management any option for fighting climate change?. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 792-834	16.2	106
18	Numerical analysis on an industrial-scaled solar updraft power plant system with ambient crosswind. <i>Renewable Energy</i> , 2014 , 68, 662-676	8.1	25
17	Numerical simulations on the temperature gradient and thermal stress of a thermoelectric power generator. <i>Energy Conversion and Management</i> , 2014 , 88, 915-927	10.6	67
16	Analysis of non-uniform heat loads on evaporators with loop heat pipes. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 313-326	4.9	10

15	Chimney shape numerical study for solar chimney power generating systems. <i>International Journal of Energy Research</i> , 2013 , 37, 310-322	4.5	68
14	Numerical analysis on the solar updraft power plant system with a blockage. <i>Solar Energy</i> , 2013 , 98, 58-69.8		32
13	Fighting global warming by photocatalytic reduction of CO2 using giant photocatalytic reactors. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 19, 82-106	16.2	105
12	Analysis of output power smoothing method of the solar chimney power generating system. <i>International Journal of Energy Research</i> , 2013 , 37, 1657-1668	4.5	22
11	Large-eddy simulation of thermal fatigue in a mixing tee. <i>International Journal of Heat and Fluid Flow</i> , 2012 , 37, 93-108	2.4	16
10	Numerical simulation of the thermal hydraulic performance of a plate pin fin heat sink. <i>Applied Thermal Engineering</i> , 2012 , 48, 81-88	5.8	48
9	Numerical analysis on the influence of ambient crosswind on the performance of solar updraft power plant system. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 5567-5583	16.2	51
8	Numerical analysis on the performance of solar chimney power plant system. <i>Energy Conversion and Management</i> , 2011 , 52, 876-883	10.6	112
7	Physical quantity synergy in laminar flow field and its application in heat transfer enhancement. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 4669-4672	4.9	92
6	Numerical analysis of flow and heat transfer characteristics in solar chimney power plants with energy storage layer. <i>Energy Conversion and Management</i> , 2008 , 49, 2872-2879	10.6	103
5	Numerical simulation of the solar chimney power plant systems coupled with turbine. <i>Renewable Energy</i> , 2008 , 33, 897-905	8.1	99
4	Analytical and numerical investigation of the solar chimney power plant systems. <i>International Journal of Energy Research</i> , 2006 , 30, 861-873	4.5	124
3	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> ,1	3.9	0
2	Analysis of the Light Concentration Loss of a Fresnel CPV/T System after Dust Accumulation. <i>Journal of Thermal Science</i> ,1	1.9	1
1	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. <i>Journal of Thermal Science</i> ,1	1.9	