

Tingzhen Ming

List of Publications by Year in descending order

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106
papers

4,243
citations

94415

37
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123420

61
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107
all docs

107
docs citations

107
times ranked

2988
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , 2018, 6, 340-361.	4.0	251
2	Analytical and numerical investigation of the solar chimney power plant systems. <i>International Journal of Energy Research</i> , 2006, 30, 861-873.	4.5	158
3	Numerical analysis on the performance of solar chimney power plant system. <i>Energy Conversion and Management</i> , 2011, 52, 876-883.	9.2	148
4	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.	16.4	148
5	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.	9.2	132
6	Fighting global warming by photocatalytic reduction of CO ₂ using giant photocatalytic reactors. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 82-106.	16.4	131
7	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019, 43, 1387-1410.	4.5	125
8	Numerical simulation of the solar chimney power plant systems coupled with turbine. <i>Renewable Energy</i> , 2008, 33, 897-905.	8.9	122
9	Removal of non-CO ₂ greenhouse gases by large-scale atmospheric solar photocatalysis. <i>Progress in Energy and Combustion Science</i> , 2017, 60, 68-96.	31.2	117
10	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.	4.8	114
11	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.	4.8	109
12	Numerical simulations on the temperature gradient and thermal stress of a thermoelectric power generator. <i>Energy Conversion and Management</i> , 2014, 88, 915-927.	9.2	87
13	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.	4.0	87
14	Chimney shape numerical study for solar chimney power generating systems. <i>International Journal of Energy Research</i> , 2013, 37, 310-322.	4.5	81
15	Thermal analysis on a segmented thermoelectric generator. <i>Energy</i> , 2015, 80, 388-399.	8.8	77
16	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO ₂ Brayton cycle hybrid system. <i>Energy Conversion and Management</i> , 2017, 153, 538-556.	9.2	76
17	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.	16.4	74
18	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.	4.6	66

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19	Numerical simulation of the thermal hydraulic performance of a plate pin fin heat sink. Applied Thermal Engineering, 2012, 48, 81-88.	6.0	65
20	Numerical simulation on a compact thermoelectric cooler for the optimized design. Applied Thermal Engineering, 2019, 146, 815-825.	6.0	65
21	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
22	Urban morphology and building heating energy consumption: Evidence from Harbin, a severe cold region city. Energy and Buildings, 2020, 224, 110143.	6.7	61
23	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
24	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
25	Numerical analysis of seawater desalination based on a solar chimney power plant. Applied Energy, 2017, 208, 1258-1273.	10.1	56
26	Analytical and numerical investigation on a new compact thermoelectric generator. Energy Conversion and Management, 2017, 132, 261-271.	9.2	56
27	A review of the theory and practice of regional resilience. Sustainable Cities and Society, 2017, 29, 86-96.	10.4	55
28	Freshwater generation from a solar chimney power plant. Energy Conversion and Management, 2016, 113, 189-200.	9.2	53
29	Multi-objective performance optimization of irreversible molten carbonate fuel cell "Braysson heat engine and thermodynamic analysis with ecological objective approach. Energy, 2018, 144, 707-722.	8.8	52
30	A review on solar-assisted gas turbines. Energy Science and Engineering, 2018, 6, 658-674.	4.0	49
31	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
32	A moist air condensing device for sustainable energy production and water generation. Energy Conversion and Management, 2017, 138, 638-650.	9.2	43
33	Numerical analysis on the thermal behavior of a segmented thermoelectric generator. International Journal of Hydrogen Energy, 2017, 42, 3521-3535.	7.1	42
34	The effect of dust accumulation on the cleanliness factor of a parabolic trough solar concentrator. Renewable Energy, 2020, 152, 529-539.	8.9	42
35	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
36	Numerical analysis on the solar updraft power plant system with a blockage. Solar Energy, 2013, 98, 58-69.	6.1	40

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37	Climate engineering by mimicking natural dust climate control: the iron salt aerosol method. <i>Earth System Dynamics</i> , 2017, 8, 1-54.	7.1	40
38	Thermo-mechanical analysis on a compact thermoelectric cooler. <i>Energy</i> , 2019, 172, 1211-1224.	8.8	40
39	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , 2018, 9, 82.	2.3	39
40	Numerical simulation of solar chimney power plant adopting the fan model. <i>Renewable Energy</i> , 2018, 126, 1093-1101.	8.9	38
41	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.	3.6	36
42	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.	3.8	35
43	Heat transfer network for a parabolic trough collector as a heat collecting element using nanofluid. <i>Renewable Energy</i> , 2018, 123, 439-449.	8.9	35
44	Review on pollutant dispersion in urban areas-part A: Effects of mechanical factors and urban morphology. <i>Building and Environment</i> , 2021, 190, 107534.	6.9	35
45	Numerical analysis on an industrial-scaled solar updraft power plant system with ambient crosswind. <i>Renewable Energy</i> , 2014, 68, 662-676.	8.9	34
46	Numerical analysis on the thermal environment of an old city district during urban renewal. <i>Energy and Buildings</i> , 2015, 89, 18-31.	6.7	32
47	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	32
48	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.	3.9	32
49	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. <i>Energies</i> , 2015, 8, 12584-12602.	3.1	31
50	Investigating the effect of using <sc>PCM</sc> in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , 2020, 8, 959-972.	4.0	31
51	Solar thermal performance of two innovative configurations of air-vacuum layered triple glazed windows. <i>Renewable Energy</i> , 2020, 150, 167-175.	8.9	30
52	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	29
53	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.	4.0	28
54	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.	6.9	27

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55	Perspectives on removal of atmospheric methane. <i>Advances in Applied Energy</i> , 2022, 5, 100085.	13.2	27
56	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.	6.1	26
57	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets—Part B: the Influences of Dimple Height and Arrangement. <i>Journal of Thermal Science</i> , 2018, 27, 321-330.	1.9	26
58	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.	5.9	26
59	A nature-based negative emissions technology able to remove atmospheric methane and other greenhouse gases. <i>Atmospheric Pollution Research</i> , 2021, 12, 101035.	3.8	23
60	Transient thermal stress analysis of a thermoelectric cooler under pulsed thermal loading. <i>Applied Thermal Engineering</i> , 2019, 162, 114240.	6.0	22
61	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	21
62	Numerical Simulation on the Effect of Vehicle Movement on Pollutant Dispersion in Urban Street. <i>Procedia Engineering</i> , 2017, 205, 2303-2310.	1.2	20
63	The effect of turbulence induced by different kinds of moving vehicles in street canyons. <i>Sustainable Cities and Society</i> , 2020, 54, 102015.	10.4	19
64	Large-scale freshwater generation from the humid air using the modified solar chimney. <i>Renewable Energy</i> , 2020, 146, 1325-1336.	8.9	18
65	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.	6.0	18
66	Mitigating air pollution strategies based on solar chimneys. <i>Solar Energy</i> , 2021, 218, 11-27.	6.1	18
67	Solar chimney power plant integrated with a photocatalytic reactor to remove atmospheric methane: A numerical analysis. <i>Solar Energy</i> , 2021, 226, 101-111.	6.1	18
68	Desalination of seawater by spray freezing in a natural draft tower. <i>Desalination</i> , 2020, 496, 114700.	8.2	16
69	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.	6.9	16
70	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.	4.8	15
71	Modeling Thermal Comfort and Optimizing Local Renewal Strategies—A Case Study of Dazhimen Neighborhood in Wuhan City. <i>Sustainability</i> , 2015, 7, 3109-3128.	3.2	15
72	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.	2.6	15

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73	Numerical simulation of pollutant dispersion characteristics in a three-dimensional urban traffic system. <i>Atmospheric Pollution Research</i> , 2018, 9, 735-746.	3.8	14
74	Multi-objective performance optimization of irreversible molten carbonate fuel cell-Stirling heat engine-reverse osmosis and thermodynamic assessment with ecological objective approach. <i>Energy Science and Engineering</i> , 2018, 6, 783-796.	4.0	14
75	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.	2.3	14
76	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.	4.8	13
77	Thermoelectric and exergy output performance of a Fresnel-based HCPV/T at different dust densities. <i>Renewable Energy</i> , 2020, 159, 801-811.	8.9	13
78	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. <i>Building Simulation</i> , 2021, 14, 391-405.	5.6	13
79	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.	4.0	11
80	Porous media: A faster numerical simulation method applicable to real urban communities. <i>Urban Climate</i> , 2021, 38, 100865.	5.7	11
81	A system level optimization of on-chip thermoelectric cooling via Taguchi-Grey method. <i>Applied Thermal Engineering</i> , 2022, 214, 118845.	6.0	10
82	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. <i>Journal of Thermal Science</i> , 2021, 30, 1526-1540.	1.9	9
83	Assessment of pollutant dispersion in urban street canyons based on field synergy theory. <i>Atmospheric Pollution Research</i> , 2021, 12, 341-356.	3.8	9
84	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.	2.7	9
85	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> , 2022, 15, 1227-1241.	5.6	9
86	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. <i>Energies</i> , 2021, 14, 4681.	3.1	9
87	The thermal analysis of the heat dissipation system of the charging module integrated with ultra-thin heat pipes. <i>Energy and Built Environment</i> , 2023, 4, 506-515.	5.9	9
88	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.	2.6	8
89	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.	5.6	8
90	Transient thermal behavior of a microchannel heat sink with multiple impinging jets. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 894-909.	2.4	7

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91	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24795-24801.	8.0	7
92	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.	4.8	7
93	A Zero Energy Lab as a validation testbed: Concept, features, and performance. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12854-12867.	7.1	6
94	The Impact of Opening Sizing on the Airflow Distribution of Double-skin Facade. <i>Procedia Engineering</i> , 2017, 205, 4111-4116.	1.2	6
95	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.	3.6	6
96	Fluid flow and heat transfer of solar chimney power plant. , 2016, , 95-125.		3
97	Analysis of the Light Concentration Loss of a Fresnel CPV/T System after Dust Accumulation. <i>Journal of Thermal Science</i> , 0, , 1.	1.9	3
98	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. <i>Journal of Thermal Science</i> , 2022, 31, 712-726.	1.9	2
99	The effect of noise barriers on viaducts on pollutant dispersion in complex street canyons. <i>Energy and Built Environment</i> , 2023, 4, 589-600.	5.9	2
100	Proanthocyanidin-Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900033.	3.6	1
101	Geoengineering: Sunlight reflection methods and negative emissions technologies for greenhouse gas removal. , 2019, , 581-636.		1
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.	2.7	1
103	Experimental investigation of a solar chimney prototype. , 2016, , 209-220.		0
104	The influence of ambient crosswind on the performance of solar updraft power plant system. , 2016, , 163-207.		0
105	A Solar Chimney with an Inverted U-Type Cooling Tower to Mitigate Urban Air Pollution. , 2017, , 113-126.		0
106	Meet the Section Editor. <i>Micro and Nanosystems</i> , 2022, 14, 2-2.	0.6	0