

# Tingzhen Ming

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6815946/tingzhen-ming-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 340-361	3.4	146
103	Analytical and numerical investigation of the solar chimney power plant systems. <i>International Journal of Energy Research</i> , <b>2006</b> , 30, 861-873	4.5	124
102	Numerical analysis on the performance of solar chimney power plant system. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 876-883	10.6	112
101	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> , <b>2014</b> , 31, 792-834	16.2	106
100	Fighting global warming by photocatalytic reduction of CO <sub>2</sub> using giant photocatalytic reactors. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 19, 82-106	16.2	105
99	Numerical analysis of flow and heat transfer characteristics in solar chimney power plants with energy storage layer. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 2872-2879	10.6	103
98	Numerical simulation of the solar chimney power plant systems coupled with turbine. <i>Renewable Energy</i> , <b>2008</b> , 33, 897-905	8.1	99
97	Physical quantity synergy in laminar flow field and its application in heat transfer enhancement. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 4669-4672	4.9	92
96	Removal of non-CO <sub>2</sub> greenhouse gases by large-scale atmospheric solar photocatalysis. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 60, 68-96	33.6	72
95	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 1387-1410	4.5	72
94	Chimney shape numerical study for solar chimney power generating systems. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 310-322	4.5	68
93	Numerical simulations on the temperature gradient and thermal stress of a thermoelectric power generator. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 915-927	10.6	67
92	Thermal analysis on a segmented thermoelectric generator. <i>Energy</i> , <b>2015</b> , 80, 388-399	7.9	64
91	Heat transfer enhancement on a microchannel heat sink with impinging jets and dimples. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 112, 113-124	4.9	63
90	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO <sub>2</sub> Brayton cycle hybrid system. <i>Energy Conversion and Management</i> , <b>2017</b> , 153, 538-556	10.6	55
89	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. <i>Energy Reports</i> , <b>2018</b> , 4, 243-251	4.6	51
88	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 6, 72-86	3.6	51

87	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> , <b>2016</b> , 49, 449-472	4.2	51
86	Numerical analysis on the influence of ambient crosswind on the performance of solar updraft power plant system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 5567-5583	16.2	51
85	Numerical simulation of the thermal hydraulic performance of a plate pin fin heat sink. <i>Applied Thermal Engineering</i> , <b>2012</b> , 48, 81-88	5.8	48
84	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 30-65	3.4	48
83	Multi-objective performance optimization of irreversible molten carbonate fuel cellBraysson heat engine and thermodynamic analysis with ecological objective approach. <i>Energy</i> , <b>2018</b> , 144, 707-722	7.9	46
82	Analytical and numerical investigation on a new compact thermoelectric generator. <i>Energy Conversion and Management</i> , <b>2017</b> , 132, 261-271	10.6	44
81	Freshwater generation from a solar chimney power plant. <i>Energy Conversion and Management</i> , <b>2016</b> , 113, 189-200	10.6	43
80	Numerical analysis of seawater desalination based on a solar chimney power plant. <i>Applied Energy</i> , <b>2017</b> , 208, 1258-1273	10.7	41
79	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 506-522	3.4	38
78	A moist air condensing device for sustainable energy production and water generation. <i>Energy Conversion and Management</i> , <b>2017</b> , 138, 638-650	10.6	32
77	Numerical analysis on the solar updraft power plant system with a blockage. <i>Solar Energy</i> , <b>2013</b> , 98, 58-66	6.8	32
76	Numerical analysis on the thermal behavior of a segmented thermoelectric generator. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3521-3535	6.7	32
75	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> , <b>2017</b> , 69, 472-487	16.2	31
74	A review of the theory and practice of regional resilience. <i>Sustainable Cities and Society</i> , <b>2017</b> , 29, 86-96	10.1	30
73	Numerical simulation on a compact thermoelectric cooler for the optimized design. <i>Applied Thermal Engineering</i> , <b>2019</b> , 146, 815-825	5.8	30
72	Numerical simulation of solar chimney power plant adopting the fan model. <i>Renewable Energy</i> , <b>2018</b> , 126, 1093-1101	8.1	28
71	A review on solar-assisted gas turbines. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 658-674	3.4	28
70	Heat transfer network for a parabolic trough collector as a heat collecting element using nanofluid. <i>Renewable Energy</i> , <b>2018</b> , 123, 439-449	8.1	27

69	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. <i>Energies</i> , <b>2015</b> , 8, 12584-12602	3.1	27
68	Climate engineering by mimicking natural dust climate control: the iron salt aerosol method. <i>Earth System Dynamics</i> , <b>2017</b> , 8, 1-54	4.8	26
67	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> , <b>2016</b> , 23, 6119-38	5.1	26
66	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , <b>2018</b> , 9, 82	2.7	26
65	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> , <b>2018</b> , 27, 195-202	1.9	26
64	Numerical analysis on an industrial-scaled solar updraft power plant system with ambient crosswind. <i>Renewable Energy</i> , <b>2014</b> , 68, 662-676	8.1	25
63	Numerical analysis on the thermal environment of an old city district during urban renewal. <i>Energy and Buildings</i> , <b>2015</b> , 89, 18-31	7	25
62	Thermo-mechanical analysis on a compact thermoelectric cooler. <i>Energy</i> , <b>2019</b> , 172, 1211-1224	7.9	25
61	Analysis of output power smoothing method of the solar chimney power generating system. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 1657-1668	4.5	22
60	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> , <b>2019</b> , 187, 15-25	3.7	20
59	Urban morphology and building heating energy consumption: Evidence from Harbin, a severe cold region city. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110143	7	20
58	Solar thermal performance of two innovative configurations of air-vacuum layered triple glazed windows. <i>Renewable Energy</i> , <b>2020</b> , 150, 167-175	8.1	20
57	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> , <b>2020</b> , 8, 959-972	3.4	19
56	The effect of dust accumulation on the cleanliness factor of a parabolic trough solar concentrator. <i>Renewable Energy</i> , <b>2020</b> , 152, 529-539	8.1	18
55	CFD analysis on the performance of a solar chimney power plant system: Case study in Algeria. <i>International Journal of Green Energy</i> , <b>2017</b> , 14, 971-982	3	18
54	Numerical analysis on a solar chimney with an inverted U-type cooling tower to mitigate urban air pollution. <i>Solar Energy</i> , <b>2017</b> , 147, 68-82	6.8	17
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> , <b>2019</b> , 7, 230-254	3.4	17
52	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> , <b>2018</b> , 27, 321-330	1.9	17

51	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> , <b>2020</b> , 141, 45-56	4.1	17
50	Large-eddy simulation of thermal fatigue in a mixing tee. <i>International Journal of Heat and Fluid Flow</i> , <b>2012</b> , 37, 93-108	2.4	16
49	Effect of traffic tidal flow on pollutant dispersion in various street canyons and corresponding mitigation strategies. <i>Energy and Built Environment</i> , <b>2020</b> , 1, 242-253	6.3	15
48	The effect of exhaust emissions from a group of moving vehicles on pollutant dispersion in the street canyons. <i>Building and Environment</i> , <b>2020</b> , 181, 107120	6.5	15
47	Numerical Simulation on the Effect of Vehicle Movement on Pollutant Dispersion in Urban Street. <i>Procedia Engineering</i> , <b>2017</b> , 205, 2303-2310		14
46	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> , <b>2018</b> , 6, 783-796	3.4	13
45	Numerical simulation of pollutant dispersion characteristics in a three-dimensional urban traffic system. <i>Atmospheric Pollution Research</i> , <b>2018</b> , 9, 735-746	4.5	11
44	The effect of turbulence induced by different kinds of moving vehicles in street canyons. <i>Sustainable Cities and Society</i> , <b>2020</b> , 54, 102015	10.1	11
43	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. <i>International Journal of Low-Carbon Technologies</i> , <b>2019</b> , 14, 10-22	2.8	11
42	Thermal and hydraulic performances of a tube filled with various thermal conductivities of porous media. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 81, 784-796	4.9	10
41	Modeling Thermal Comfort and Optimizing Local Renewal Strategies—A Case Study of Dazhimen Neighborhood in Wuhan City. <i>Sustainability</i> , <b>2015</b> , 7, 3109-3128	3.6	10
40	Analysis of non-uniform heat loads on evaporators with loop heat pipes. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 75, 313-326	4.9	10
39	Review on pollutant dispersion in urban areas-part A: Effects of mechanical factors and urban morphology. <i>Building and Environment</i> , <b>2021</b> , 190, 107534	6.5	10
38	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 624-642	3.4	10
37	Transient thermal stress analysis of a thermoelectric cooler under pulsed thermal loading. <i>Applied Thermal Engineering</i> , <b>2019</b> , 162, 114240	5.8	9
36	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> , <b>2020</b> , 14, 649-665	2.6	8
35	Thermoelectric and exergy output performance of a Fresnel-based HCPV/T at different dust densities. <i>Renewable Energy</i> , <b>2020</b> , 159, 801-811	8.1	7
34	Large-scale freshwater generation from the humid air using the modified solar chimney. <i>Renewable Energy</i> , <b>2020</b> , 146, 1325-1336	8.1	7

33	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> , <b>2018</b> , 13, 388-403	2.8	7
32	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> , <b>2020</b> , 169, 114933	5.8	6
31	Transient thermal behavior of a microchannel heat sink with multiple impinging jets. <i>Journal of Zhejiang University: Science A</i> , <b>2015</b> , 16, 894-909	2.1	6
30	Mitigating air pollution strategies based on solar chimneys. <i>Solar Energy</i> , <b>2021</b> , 218, 11-27	6.8	6
29	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. <i>Building Simulation</i> , <b>2021</b> , 14, 391-405	3.9	6
28	Review on pollutant dispersion in urban areas-part B: Local mitigation strategies, optimization framework, and evaluation theory. <i>Building and Environment</i> , <b>2021</b> , 198, 107890	6.5	6
27	Desalination of seawater by spray freezing in a natural draft tower. <i>Desalination</i> , <b>2020</b> , 496, 114700	10.3	5
26	Analysis and modeling of dust accumulation-composed spherical and cubic particles on PV module relative transmittance. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 44, 101015	4.7	5
25	A Zero Energy Lab as a validation testbed: Concept, features, and performance. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 12854-12867	6.7	4
24	The Impact of Opening Sizing on the Airflow Distribution of Double-skin Facade. <i>Procedia Engineering</i> , <b>2017</b> , 205, 4111-4116		4
23	A nature-based negative emissions technology able to remove atmospheric methane and other greenhouse gases. <i>Atmospheric Pollution Research</i> , <b>2021</b> , 12, 101035	4.5	4
22	Porous media: A faster numerical simulation method applicable to real urban communities. <i>Urban Climate</i> , <b>2021</b> , 38, 100865	6.8	4
21	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24795-24801	9.5	3
20	Fluid flow and heat transfer of solar chimney power plant <b>2016</b> , 95-125		3
19	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. <i>Energies</i> , <b>2021</b> , 14, 4681	3.1	3
18	Solar chimney power plant integrated with a photocatalytic reactor to remove atmospheric methane: A numerical analysis. <i>Solar Energy</i> , <b>2021</b> , 226, 101-111	6.8	3
17	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. <i>Journal of Thermal Science</i> , <b>2020</b> , 30, 1526	1.9	2
16	Assessment of pollutant dispersion in urban street canyons based on field synergy theory. <i>Atmospheric Pollution Research</i> , <b>2021</b> , 12, 341-356	4.5	2

15	Proanthocyanidin-Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900033	3.9	1
14	Climate engineering by mimicking the natural dust climate control: the Iron Salt Aerosols method <b>2016</b> ,		1
13	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
12	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> , <b>2021</b> , 177, 121515	4.9	1
11	Perspectives on removal of atmospheric methane. <i>Advances in Applied Energy</i> , <b>2022</b> , 5, 100085		0
10	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> , <b>2021</b> , 48, 101656	4.7	0
9	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> ,1	3.9	0
8	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> , <b>2021</b> , 9, 745347	5	0
7	Experimental investigation and prediction of changes in thermal conductivity of carbon nanotube nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105526	5.8	0
6	A Solar Chimney with an Inverted U-Type Cooling Tower to Mitigate Urban Air Pollution <b>2017</b> , 113-126		
5	Experimental investigation of a solar chimney prototype <b>2016</b> , 209-220		
4	The influence of ambient crosswind on the performance of solar updraft power plant system <b>2016</b> , 163-207		
3	Geoengineering: Sunlight reflection methods and negative emissions technologies for greenhouse gas removal <b>2019</b> , 581-636		
2	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. <i>Journal of Thermal Science</i> ,1	1.9	
1	Meet the Section Editor. <i>Micro and Nanosystems</i> , <b>2022</b> , 14, 2-2	0.6	