

Ji-Xiang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,622
citations

279487

23
h-index

301761

39
g-index

56
all docs

56
docs citations

56
times ranked

808
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground-based investigations on phase-moving phenomenon with space sublimation cooling for lunar exploration missions. Chinese Journal of Aeronautics, 2022, 35, 65-74.	2.8	5
2	In-Situ Crystallization and Characteristics of Alkali-Activated Materials-Supported Analcime-C from a By-Product of the Lithium Carbonate Industry. Materials, 2022, 15, 1261.	1.3	1
3	On male urination and related environmental disease transmission in restrooms: From the perspectives of fluid dynamics. Sustainable Cities and Society, 2022, 80, 103753.	5.1	14
4	A concentrated sunlight energy wireless transmission system for space solar energy harvest. Energy Conversion and Management, 2022, 261, 115524.	4.4	11
5	Physics-based statistical learning perspectives on droplet formation characteristics in microfluidic cross-junctions. Applied Physics Letters, 2022, 120, .	1.5	16
6	Ground-based investigation of a directional, flexible, and wireless concentrated solar energy transmission system. Applied Energy, 2022, 322, 119517.	5.1	16
7	Power loss and efficiency analysis of an onboard three-level brushless synchronous generator. International Journal of Electronics, 2021, 108, 1-20.	0.9	7
8	Recent active thermal management technologies for the development of energy-optimized aerospace vehicles in China. Chinese Journal of Aeronautics, 2021, 34, 1-27.	2.8	85
9	Investigation on a gas-atomized spray cooling upon flat and micro-structured surfaces. International Journal of Thermal Sciences, 2021, 161, 106751.	2.6	50
10	An air distribution optimization of hospital wards for minimizing cross-infection. Journal of Cleaner Production, 2021, 279, 123431.	4.6	59
11	Nanostructured jumping-droplet thermal rectifier. Physical Review E, 2021, 103, 023110.	0.8	24
12	Experimental study on Rayleigh-Bénard-Marangoni convection characteristics in a droplet during mass transfer. International Journal of Heat and Mass Transfer, 2021, 172, 121214.	2.5	5
13	Data-driven modeling of a forced convection system for super-real-time transient thermal performance prediction. International Communications in Heat and Mass Transfer, 2021, 126, 105387.	2.9	15
14	Optimization of alkali-activated concrete based on the characteristics of binder systems. Construction and Building Materials, 2021, 300, 123952.	3.2	5
15	Reaction kinetics and kinetics models of alkali activated phosphorus slag. Construction and Building Materials, 2020, 237, 117728.	3.2	26
16	Review of aerospace-oriented spray cooling technology. Progress in Aerospace Sciences, 2020, 116, 100635.	6.3	103
17	Virus transmission from urinals. Physics of Fluids, 2020, 32, 081703.	1.6	52
18	Understanding the acting mechanism of NaOH adjusting the transformation of viscoelastic properties of alkali activated phosphorus slag. Construction and Building Materials, 2020, 257, 119488.	3.2	20

#	ARTICLE	IF	CITATIONS
19	Can a toilet promote virus transmission? From a fluid dynamics perspective. <i>Physics of Fluids</i> , 2020, 32, 065107.	1.6	129
20	Synthesis of fly ash-based self-supported zeolites foam geopolymer via saturated steam treatment. <i>Journal of Hazardous Materials</i> , 2020, 393, 122468.	6.5	50
21	The effect of NaOH content on rheological properties, microstructures and interfacial characteristic of alkali activated phosphorus slag fresh pastes. <i>Construction and Building Materials</i> , 2020, 252, 119132.	3.2	28
22	Setting controlling of lithium slag-based geopolymer by activator and sodium tetraborate as a retarder and its effects on mortar properties. <i>Cement and Concrete Composites</i> , 2020, 110, 103598.	4.6	58
23	Liquid-curtain-based strategy to restrain plume during flushing. <i>Physics of Fluids</i> , 2020, 32, 111707.	1.6	11
24	10.1063/5.0021450.1. , 2020, , .		0
25	Ground-Based Near-Space-Oriented Spray Cooling: Temperature Uniformity Analysis and Performance Prediction. <i>Journal of Thermophysics and Heat Transfer</i> , 2019, 33, 617-626.	0.9	18
26	A Thermoelectric-Heat-Pump Employed Active Control Strategy for the Dynamic Cooling Ability Distribution of Liquid Cooling System for the Space Station's Main Power-Cell-Arrays. <i>Entropy</i> , 2019, 21, 578.	1.1	8
27	Characteristics of Alkali-Activated Lithium Slag at Early Reaction Age. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	13
28	Effects of fly ash on the properties and microstructure of alkali-activated FA/BFS repairing mortar. <i>Fuel</i> , 2019, 256, 115919.	3.4	41
29	One-step high efficiency crystallization of zeolite A from ultra-fine circulating fluidized bed fly ash by hydrothermal synthesis method. <i>Fuel</i> , 2019, 257, 116043.	3.4	29
30	Microstructure and phase evolution of alkali-activated steel slag during early age. <i>Construction and Building Materials</i> , 2019, 204, 158-165.	3.2	83
31	Numerical Investigation on the Thermal Performance of Nanofluid-Based Cooling System for Synchronous Generators. <i>Entropy</i> , 2019, 21, 420.	1.1	4
32	A green route to sustainable alkali-activated materials by heat and chemical activation of lithium slag. <i>Journal of Cleaner Production</i> , 2019, 225, 1184-1193.	4.6	77
33	Cooling Ability/Capacity and Exergy Penalty Analysis of Each Heat Sink of Modern Supersonic Aircraft. <i>Entropy</i> , 2019, 21, 223.	1.1	11
34	A gas-atomized spray cooling system integrated with an ejector loop: Ejector modeling and thermal performance analysis. <i>Energy Conversion and Management</i> , 2019, 180, 106-118.	4.4	77
35	Numerical investigation and experimental validation of an infrared measurement approach for surface heat flux distribution using a multi-color-reference. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 675-690.	2.5	1
36	Comparative study of the heating surface impact on porous-material-involved spray system for electronic cooling – an experimental approach. <i>Applied Thermal Engineering</i> , 2018, 135, 537-548.	3.0	23

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37	Investigation of heat transfer mechanism of low environmental pressure large-space spray cooling for near-space flight systems. International Journal of Heat and Mass Transfer, 2018, 119, 496-507.	2.5	66
38	Excitation current calculation of a brushless synchronous generator under different speed and load. , 2018, , .		0
39	A hybrid cooling system combining self-adaptive single-phase mechanically pumped fluid loop and gravity-immune two-phase spray module. Energy Conversion and Management, 2018, 176, 194-208.	4.4	21
40	A Near-space-oriented Large-space Spray Cooling System: Temperature Uniformity Analysis and Performance Prediction Using Neural Network. , 2018, , .		0
41	Enhanced heat transfer by an original immersed spray cooling system integrated with an ejector. Energy, 2018, 158, 512-523.	4.5	36
42	Construction and experimental verification of a novel flexible thermal control system configuration for the autonomous on-orbit services of space missions. Energy Conversion and Management, 2017, 138, 273-285.	4.4	9
43	A self-driven temperature and flow rate co-adjustment mechanism based on Shape-Memory-Alloy (SMA) assembly for an adaptive thermal control coldplate module with on-orbit service characteristics. Applied Thermal Engineering, 2017, 114, 744-755.	3.0	22
44	Investigation of a gravity-immune chip-level spray cooling for thermal protection of laser-based wireless power transmission system. International Journal of Heat and Mass Transfer, 2017, 114, 715-726.	2.5	42
45	Conception and experimental investigation of a hybrid temperature control method using phase change material for permanent magnet synchronous motors. Experimental Thermal and Fluid Science, 2017, 81, 9-20.	1.5	29
46	Configuration design and numerical analysis of a Martian dust storm simulation wind tunnel for Mars airplanes and rovers. , 2016, , .		0
47	Performance analysis of a self-driven adaptive cold-plate, an experimental approach. , 2016, , .		2
48	Transient cooling effect analyses for a permanent-magnet synchronous motor with phase-change-material packaging. Applied Thermal Engineering, 2016, 109, 251-260.	3.0	47
49	An integrated hardware-in-the-loop verification approach for dual heat sink systems of aerospace single phase mechanically pumped fluid loop. Applied Thermal Engineering, 2016, 106, 1403-1414.	3.0	13
50	Experimental investigation of the thermal control effects of phase change material based packaging strategy for on-board permanent magnet synchronous motors. Energy Conversion and Management, 2016, 123, 232-242.	4.4	54
51	A highly self-adaptive cold plate for the single-phase mechanically pumped fluid loop for spacecraft thermal management. Energy Conversion and Management, 2016, 111, 57-66.	4.4	37
52	Investigation of a spray cooling system with two nozzles for space application. Applied Thermal Engineering, 2015, 89, 115-124.	3.0	69