

Jinliang Xu

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134
papers

2,669
citations

29
h-index

45
g-index

150
ext. papers

3,476
ext. citations

5.4
avg. IF

5.96
L-index

#	Paper	IF	Citations
134	Solar water evaporation by black photothermal sheets. <i>Nano Energy</i> , 2017 , 41, 269-284	17.1	283
133	Performance analysis of a parabolic trough solar collector using Al ₂ O ₃ /synthetic oil nanofluid. <i>Applied Thermal Engineering</i> , 2016 , 107, 469-478	5.8	121
132	Key issues and solution strategies for supercritical carbon dioxide coal fired power plant. <i>Energy</i> , 2018 , 157, 227-246	7.9	113
131	Volumetric solar heating and steam generation via gold nanofluids. <i>Applied Energy</i> , 2017 , 206, 393-400	10.7	97
130	Connected-top-bottom-cycle to cascade utilize flue gas heat for supercritical carbon dioxide coal fired power plant. <i>Energy Conversion and Management</i> , 2018 , 172, 138-154	10.6	86
129	Solar evaporation for simultaneous steam and power generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 513-531	13	65
128	Operation and performance of a low temperature organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2015 , 75, 1065-1075	5.8	64
127	Turbulent convective heat transfer of CO ₂ in a helical tube at near-critical pressure. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 748-758	4.9	60
126	Numerical investigation of coalescence-induced droplet jumping on superhydrophobic surfaces for efficient dropwise condensation heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 506-516	4.9	56
125	Organic Rankine cycle saves energy and reduces gas emissions for cement production. <i>Energy</i> , 2015 , 86, 59-73	7.9	51
124	Supercritical Boiling Number, a new parameter to distinguish two regimes of carbon dioxide heat transfer in tubes. <i>International Journal of Thermal Sciences</i> , 2019 , 136, 254-266	4.1	51
123	Switchable heat transfer mechanisms of nucleation and convection by wettability match of evaporator and condenser for heat pipes: Nano-structured surface effect. <i>Nano Energy</i> , 2017 , 38, 313-325	17.1	50
122	Plasmon-dominated photoelectrodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4233-4253	13	49
121	Perspective of S-CO ₂ power cycles. <i>Energy</i> , 2019 , 186, 115831	7.9	46
120	Experimental study of heat transfer and start-up of loop heat pipe with multiscale porous wicks. <i>Applied Thermal Engineering</i> , 2017 , 117, 782-798	5.8	44
119	Blue energy harvesting on nanostructured carbon materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18357-18377	13	43
118	Mixed convective heat transfer of CO ₂ at supercritical pressures flowing upward through a vertical helically coiled tube. <i>Applied Thermal Engineering</i> , 2015 , 88, 61-70	5.8	39

117	Operation of an organic Rankine cycle dependent on pumping flow rates and expander torques. <i>Energy</i> , 2015 , 90, 864-878	7.9	38
116	Froude number dominates condensation heat transfer of R245fa in tubes: Effect of inclination angles. <i>International Journal of Multiphase Flow</i> , 2015 , 71, 98-115	3.6	37
115	The electro-spraying characteristics of ethanol for application in a small-scale combustor under combined electric field. <i>Applied Thermal Engineering</i> , 2015 , 87, 595-604	5.8	37
114	Numerical study on drag reduction and heat transfer enhancement in microchannels with superhydrophobic surfaces for electronic cooling. <i>Applied Thermal Engineering</i> , 2015 , 88, 71-81	5.8	36
113	Mode selection between sliding and rolling for droplet on inclined surface: Effect of surface wettability. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 122, 45-58	4.9	35
112	Dropwise condensation on superhydrophobic nanostructure surface, Part I: Long-term operation and nanostructure failure. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 86-95	4.9	35
111	Technical and economical optimization for a typical solar hybrid coal-fired power plant in China. <i>Applied Thermal Engineering</i> , 2017 , 115, 549-557	5.8	34
110	Integrated flat heat pipe with a porous network wick for high-heat-flux electronic devices. <i>Experimental Thermal and Fluid Science</i> , 2017 , 85, 119-131	3	34
109	Chance-constrained two-stage fractional optimization for planning regional energy systems in British Columbia, Canada. <i>Applied Energy</i> , 2015 , 154, 663-677	10.7	34
108	Porous-wall microchannels generate high frequency "eye-blinking" interface oscillation, yielding ultra-stable wall temperatures. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 341-353	4.9	32
107	Thermodynamic selection criteria of zeotropic mixtures for subcritical organic Rankine cycle. <i>Energy</i> , 2019 , 167, 484-497	7.9	31
106	Minimum ϕ -Entropy Control for Non-Gaussian Stochastic Networked Control Systems and Its Application to a Networked DC Motor Control System. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 406-411	4.8	30
105	Dropwise condensation on superhydrophobic nanostructure surface, part II: Mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 1170-1187	4.9	27
104	Transcritical pressure Organic Rankine Cycle (ORC) analysis based on the integrated-average temperature difference in evaporators. <i>Applied Thermal Engineering</i> , 2015 , 88, 2-13	5.8	26
103	Dropwise condensation heat transfer on superhydrophilic-hydrophobic network hybrid surface. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 132, 52-67	4.9	26
102	3D heterogeneous wetting microchannel surfaces for boiling heat transfer enhancement. <i>Applied Surface Science</i> , 2018 , 457, 891-901	6.7	24
101	Water drop impacts on a single-layer of mesh screen membrane: Effect of water hammer pressure and advancing contact angles. <i>Experimental Thermal and Fluid Science</i> , 2017 , 82, 83-93	3	24
100	The phase separation concept condensation heat transfer in horizontal tubes for low-grade energy utilization. <i>Energy</i> , 2014 , 69, 787-800	7.9	22

99	The general supercritical heat transfer correlation for vertical up-flow tubes: K number correlation. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119080	4.9	22
98	Overlap energy utilization reaches maximum efficiency for S-CO ₂ coal fired power plant: A new principle. <i>Energy Conversion and Management</i> , 2019 , 195, 99-113	10.6	21
97	Condensation heat transfer of R245fa in tubes with and without lyophilic porous-membrane-tube insert. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 261-275	4.9	21
96	Design, Construction, and Characterization of an Adjustable 70 kW High-Flux Solar Simulator. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016 , 138,	2.3	21
95	Experimental and modeling investigation of an organic Rankine cycle system based on the scroll expander. <i>Energy</i> , 2017 , 134, 35-49	7.9	20
94	Numerical investigation of droplet spreading and heat transfer on hot substrates. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 402-411	4.9	19
93	An experimental study of two-phase pressure drop of acetone in triangular silicon micro-channels. <i>Applied Thermal Engineering</i> , 2015 , 80, 76-86	5.8	18
92	Convective dropwise condensation heat transfer in mini-channels with biphilic surface. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 69-84	4.9	17
91	Solar evaporation of a hanging plasmonic droplet. <i>Solar Energy</i> , 2018 , 170, 184-191	6.8	17
90	Modulated heat transfer tube with short conical-mesh inserts: A linking from microflow to macroflow. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 291-307	4.9	16
89	The critical nanofluid concentration as the crossover between changed and unchanged solar-driven droplet evaporation rates. <i>Nano Energy</i> , 2019 , 57, 791-803	17.1	16
88	Coupling Diffusion Welding Technique and Mesh Screen Creates Heterogeneous Metal Surface for Droplets Array. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700684	4.6	15
87	The energy-saving mechanism of coal-fired power plant with S-CO ₂ cycle compared to steam-Rankine cycle. <i>Energy</i> , 2020 , 195, 116965	7.9	15
86	The definition of non-dimensional integration temperature difference and its effect on organic Rankine cycle. <i>Applied Energy</i> , 2016 , 167, 17-33	10.7	15
85	Critical supercritical-boiling-number to determine the onset of heat transfer deterioration for supercritical fluids. <i>Solar Energy</i> , 2020 , 195, 27-36	6.8	15
84	Effects of electric field intensity and frequency of AC electric field on the small-scale ethanol diffusion flame behaviors. <i>Applied Thermal Engineering</i> , 2017 , 115, 1330-1336	5.8	14
83	Mixed dropwise-filmwise condensation heat transfer on biphilic surface. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119273	4.9	14
82	Heat transfer and pressure drop characteristics in a circular tube with mesh cylinder inserts. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 75, 130-136	5.8	14

81	Microscale phase separation condensers with varied cross sections of each fluid phase: Heat transfer enhancement and pressure drop reduction. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 439-454	4.9	14
80	PLS-based multi-loop robust H2 control for improvement of operating efficiency of waste heat energy conversion systems with organic Rankine cycle. <i>Energy</i> , 2017 , 123, 460-472	7.9	13
79	Performance assessment of cascade control loops with non-Gaussian disturbances using entropy information. <i>Chemical Engineering Research and Design</i> , 2015 , 104, 68-80	5.5	13
78	Non-dimensional numerical study of droplet impacting on heterogeneous hydrophilicity/hydrophobicity surface. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 951-968	4.9	13
77	Wavelet decomposition method decoupled boiling/evaporation oscillation mechanisms over two to three timescales: A study for a microchannel with pin fin structure. <i>International Journal of Multiphase Flow</i> , 2015 , 72, 53-72	3.6	13
76	Drop spreading and penetrating on micro/nano particle sintering porous with multiscale structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 516, 9-22	5.1	12
75	A comprehensive understanding of enhanced condensation heat transfer using phase separation concept. <i>Energy</i> , 2019 , 172, 661-674	7.9	12
74	Blue phase liquid crystal microcapsules: confined 3D structure inducing fascinating properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4822-4827	7.1	12
73	Effect of fluid dryness and critical temperature on trans-critical organic Rankine cycle. <i>Energy</i> , 2019 , 174, 97-109	7.9	12
72	Theoretical Analysis of a Sessile Evaporating Droplet on a Curved Substrate with an Interfacial Cooling Effect. <i>Langmuir</i> , 2020 , 36, 5618-5625	4	12
71	Nucleate boiling on nanostructured surfaces using molecular dynamics simulations. <i>International Journal of Thermal Sciences</i> , 2020 , 152, 106325	4.1	12
70	Plasmon heating of one-dimensional gold nanoparticle chains. <i>Solar Energy</i> , 2018 , 173, 665-674	6.8	12
69	Vertically oriented TiO2 nanotube arrays with different anodization times for enhanced boiling heat transfer. <i>Science China Technological Sciences</i> , 2012 , 55, 2184-2190	3.5	12
68	The wavelength dependent photovoltaic effects caused by two different mechanisms in carbon nanotube film/CuO nanowire array heterodimensional contacts. <i>Applied Physics Letters</i> , 2012 , 100, 251113	3.4	12
67	Gain scheduling control of waste heat energy conversion systems based on an LPV (linear parameter varying) model. <i>Energy</i> , 2016 , 107, 773-783	7.9	11
66	Development and dynamic characteristics of an Organic Rankine Cycle. <i>Science Bulletin</i> , 2014 , 59, 4367-4378		11
65	Condensation heat transfer of R245fa in a shell-tube heat exchanger at slightly inclined angles. <i>International Journal of Thermal Sciences</i> , 2017 , 115, 197-209	4.1	10
64	Effects of direct-current electric fields on flame shape and combustion characteristics of ethanol in small scale. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401562484	1.2	10

63	The decoupling and synergy strategy to construct multiscales from nano to millimeter for heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 918-933	4.9	10
62	New combined supercritical carbon dioxide cycles for coal-fired power plants. <i>Sustainable Cities and Society</i> , 2019 , 50, 101656	10.1	10
61	An actual thermal efficiency expression for heat engines: Effect of heat transfer roadmaps. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 556-568	4.9	10
60	Solar steam generation enabled by bubbly flow nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110292	6.4	9
59	How to Construct a Combined S-CO Cycle for Coal Fired Power Plant?. <i>Entropy</i> , 2018 , 21,	2.8	9
58	Effects of Temperature and Ionic Concentration on Nanodroplet Electrocoalescence. <i>Langmuir</i> , 2019 , 35, 750-759	4	9
57	Large scale generation of micro-droplet array by vapor condensation on mesh screen piece. <i>Scientific Reports</i> , 2017 , 7, 39932	4.9	8
56	A New Mechanism of Light-Induced Bubble Growth to Propel Microbubble Piston Engine. <i>Small</i> , 2020 , 16, e2001548	11	8
55	Enhancement of loop heat pipe heat transfer performance with superhydrophilic porous wick. <i>International Journal of Thermal Sciences</i> , 2020 , 156, 106466	4.1	8
54	Steady and transient operation of an organic Rankine cycle power system. <i>Renewable Energy</i> , 2019 , 133, 284-294	8.1	8
53	R245fa condensation heat transfer in a phase separation condenser. <i>Experimental Thermal and Fluid Science</i> , 2018 , 98, 346-361	3	7
52	Switchable heat transfer in nano Janus-interface-system. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 761-771	4.9	7
51	The connection between wall wettability, boiling regime and symmetry breaking for nanoscale boiling. <i>International Journal of Thermal Sciences</i> , 2019 , 145, 106033	4.1	7
50	Seed Bubble Guided Heat Transfer in a Single Microchannel. <i>Heat Transfer Engineering</i> , 2011 , 32, 1031-1036		7
49	Failure and Recovery of Droplet Nucleation and Growth on Damaged Nanostructures: A Molecular Dynamics Study. <i>Langmuir</i> , 2020 , 36, 13716-13724	4	7
48	Effect of gravity levels on the flow pattern modulation by the phase separation concept. <i>Computers and Fluids</i> , 2015 , 108, 43-56	2.8	6
47	Selection criteria of zeotropic mixtures for subcritical organic Rankine cycle based on thermodynamic and thermo-economic analysis. <i>Applied Thermal Engineering</i> , 2020 , 180, 115837	5.8	6
46	Effects of oxidation processes and microstructures on the hydrophilicity of copper surface. <i>Materials Letters</i> , 2017 , 195, 71-75	3.3	5

45	The effect of multi-quantum barrier structure on light-emitting diodes performance by a non-isothermal model. <i>Science Bulletin</i> , 2012 , 57, 3937-3942		5
44	Concept design of supercritical CO ₂ cycle driven by pressurized fluidized bed combustion (PFBC) boiler. <i>Applied Thermal Engineering</i> , 2020 , 166, 114756	5.8	5
43	Scale law of sCO ₂ coal fired power plants regarding system performance dependent on power capacities. <i>Energy Conversion and Management</i> , 2020 , 226, 113505	10.6	5
42	Solar vapor generation using bubbly flow nanofluids with collaborative light-harvesting nanoparticles. <i>Solar Energy</i> , 2020 , 207, 1214-1221	6.8	5
41	Recent developments of control strategies for organic Rankine cycle (ORC) systems. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1528-1539	1.8	5
40	Numerical investigations of head-on collisions of binary unequal-sized droplets on superhydrophobic walls. <i>Physics of Fluids</i> , 2021 , 33, 032001	4.4	5
39	Multiloop robust H _∞ control design based on the dynamic PLS approach to chemical processes. <i>Chemical Engineering Research and Design</i> , 2015 , 100, 518-529	5.5	4
38	The phase separation in a rectangular microchannel by micro-membrane. <i>Applied Thermal Engineering</i> , 2015 , 88, 172-184	5.8	4
37	A comprehensive comparison between substrate heating and light heating induced nanofluid droplet evaporations. <i>Applied Thermal Engineering</i> , 2020 , 175, 115389	5.8	4
36	Numerical investigation on spontaneous droplet/bubble migration under thermal radiation. <i>International Journal of Thermal Sciences</i> , 2018 , 129, 115-123	4.1	4
35	Self-heating dependent characteristic of GaN-based light-emitting diodes with and without AlGaInN electron blocking layer. <i>Science Bulletin</i> , 2014 , 59, 2460-2469		4
34	Manipulation of bubble migration through thermal capillary effect under variable buoyancy. <i>International Journal of Thermal Sciences</i> , 2020 , 149, 106199	4.1	4
33	Effect of non-uniform heating on scCO ₂ heat transfer deterioration. <i>Applied Thermal Engineering</i> , 2020 , 181, 115967	5.8	4
32	Phase distribution including a bubblelike region in supercritical fluid. <i>Physical Review E</i> , 2021 , 104, 014142	4.4	4
31	Phase separation evaporator using pin-fin-porous wall microchannels: Comprehensive upgrading of thermal-hydraulic operating performance. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 164, 120460	4.9	4
30	Phase separation and flow pattern modulation with a T-type micro-drainage system. <i>Applied Thermal Engineering</i> , 2017 , 122, 214-226	5.8	3
29	Life Cycle Assessment Analysis and Comparison of 1000 MW S-CO ₂ Coal Fired Power Plant and 1000 MW USC Water-Steam Coal-Fired Power Plant. <i>Journal of Thermal Science</i> , 2020 , 1	1.9	3
28	Numerical Analysis on Heat Transfer Characteristics of Supercritical CO ₂ in Heated Vertical Up-flow Tube. <i>Materials</i> , 2020 , 13,	3.5	3

27	Filter-Based Fault Diagnosis of Wind Energy Conversion Systems Subject to Sensor Faults. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	3
26	The effect of liquid charge ratio on organic Rankine cycle operation. <i>Applied Thermal Engineering</i> , 2019 , 162, 114227	5.8	3
25	Rigorous modelling and deterministic multi-objective optimization of a super-critical CO ₂ power system based on equation of state and non-linear programming. <i>Energy Conversion and Management</i> , 2019 , 198, 111798	10.6	3
24	Exergy Analysis of Two-Stage Organic Rankine Cycle Power Generation System. <i>Entropy</i> , 2020 , 23,	2.8	3
23	The K number, a new analogy criterion number to connect pressure drop and heat transfer of sCO ₂ in vertical tubes. <i>Applied Thermal Engineering</i> , 2021 , 182, 116078	5.8	3
22	Analysis of a coal-fired power system integrated with a reheat S-CO ₂ cycle. <i>Energy Procedia</i> , 2019 , 158, 1461-1466	2.3	2
21	Single-Reheating or Double-Reheating, Which is Better for S-CO ₂ Coal Fired Power Generation System?. <i>Journal of Thermal Science</i> , 2019 , 28, 431-441	1.9	2
20	Multiscale Characteristic in Symmetric/Asymmetric Solar-Driven Nanofluid Droplet Evaporation. <i>Langmuir</i> , 2020 , 36, 1680-1690	4	2
19	Numerical analysis of bubble bursting at the liquid surface by wave propagation. <i>International Journal of Thermal Sciences</i> , 2020 , 152, 106341	4.1	2
18	Techno-economic study of a distributed hybrid renewable energy system supplying electrical power and heat for a rural house in China. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 127, 012001	0.3	2
17	RESEARCH AND DEVELOPMENT OF LOOP HEAT PIPE A REVIEW. <i>Frontiers in Heat and Mass Transfer</i> , 14,		2
16	Numerical study on convective heat transfer of supercritical CO ₂ in vertically upward and downward tubes. <i>Science China Technological Sciences</i> , 2021 , 64, 995-1006	3.5	2
15	Line Tension of Nanodroplets on a Concave Surface. <i>Langmuir</i> , 2021 , 37, 4432-4440	4	2
14	Enhanced photoelectric response of plasmon-active ZnO nanorods by spatial modulation of dielectric environment. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 149-155	5.7	2
13	Self-activated elastocapillary wave promotes boiling heat transfer on soft liquid metal surface. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 105019	5.8	2
12	Molecular dynamic simulation of bubble nucleation in a nanochannel with a groove. <i>AIP Advances</i> , 2019 , 9, 035044	1.5	1
11	Synergetics: The cooperative phenomenon in multi-compressions S-CO ₂ power cycles. <i>Energy Conversion and Management: X</i> , 2020 , 7, 100042	2.5	1
10	Does sunlight always accelerate water droplet evaporation?. <i>Applied Physics Letters</i> , 2020 , 116, 253903	3.4	1

9	Investigation on a micro-pin-fin based membrane separator. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 426-439	4.9	1
8	Development and validation of a Riemann solver in OpenFOAM [®] for non-ideal compressible fluid dynamics. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 116-140	4.5	1
7	Novel Matching Strategy for the Coupling of Heat Flux in Furnace Side and CO ₂ Temperature in Tube Side to Control the Cooling Wall Temperatures. <i>Journal of Thermal Science</i> , 2021 , 30, 1251-1267	1.9	1
6	All-in-one photosynthetic assemblies for solar fuels. <i>Materials Today Energy</i> , 2018 , 10, 368-379	7	1
5	Development and application of a modularized geometry optimizer for future supercritical CO ₂ turbomachinery optimization. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 95-114	4.5	1
4	Heat Transfer Prediction of Supercritical Carbon Dioxide in Vertical Tube Based on Artificial Neural Networks. <i>Journal of Thermal Science</i> , 2021 , 30, 1751-1767	1.9	0
3	Theoretical Analysis on the Lifetime of Sessile Droplet Evaporation. <i>Mechanisms and Machine Science</i> , 2020 , 907-914	0.3	
2	In Situ Oil Separation and Collection from Water under Surface Wave Condition. <i>Langmuir</i> , 2021 , 37, 6257-6267	4	
1	Condensation heat transfer deterioration on superhydrophobic surface with dense nanostructures. <i>Journal of Physics: Conference Series</i> , 2022 , 2230, 012027	0.3	