Jinliang Xu

List of Publications by Year
in descending order

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148	4,156	109311	138468
papers	citations	35 h-index	58 g-index

150	150	150	3222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solar water evaporation by black photothermal sheets. Nano Energy, 2017, 41, 269-284.	16.0	415
2	Key issues and solution strategies for supercritical carbon dioxide coal fired power plant. Energy, 2018, 157, 227-246.	8.8	188
3	Performance analysis of a parabolic trough solar collector using Al2O3/synthetic oil nanofluid. Applied Thermal Engineering, 2016, 107, 469-478.	6.0	154
4	Volumetric solar heating and steam generation via gold nanofluids. Applied Energy, 2017, 206, 393-400.	10.1	136
5	Solar evaporation for simultaneous steam and power generation. Journal of Materials Chemistry A, 2020, 8, 513-531.	10.3	132
6	Connected-top-bottom-cycle to cascade utilize flue gas heat for supercritical carbon dioxide coal fired power plant. Energy Conversion and Management, 2018, 172, 138-154.	9.2	115
7	Supercritical â€œboilingâ€•number, a new parameter to distinguish two regimes of carbon dioxide heat transfer in tubes. International Journal of Thermal Sciences, 2019, 136, 254-266.	4.9	112
8	Perspective of Sâˆ’CO2 power cycles. Energy, 2019, 186, 115831.	8.8	106
9	Turbulent convective heat transfer of CO 2 in a helical tube at near-critical pressure. International Journal of Heat and Mass Transfer, 2015, 80, 748-758.	4.8	86
10	Numerical investigation of coalescence-induced droplet jumping on superhydrophobic surfaces for efficient dropwise condensation heat transfer. International Journal of Heat and Mass Transfer, 2016, 95, 506-516.	4.8	76
11	Switchable heat transfer mechanisms of nucleation and convection by wettability match of evaporator and condenser for heat pipes: Nano-structured surface effect. Nano Energy, 2017, 38, 313-325.	16.0	73
12	Operation and performance of a low temperature organic Rankine cycle. Applied Thermal Engineering, 2015, 75, 1065-1075.	6.0	72
13	Organic Rankine cycle saves energy and reduces gas emissions for cement production. Energy, 2015, 86, 59-73.	8.8	71
14	Plasmon-dominated photoelectrodes for solar water splitting. Journal of Materials Chemistry A, 2017, 5, 4233-4253.	10.3	64
15	Blue energy harvesting on nanostructured carbon materials. Journal of Materials Chemistry A, 2018, 6, 18357-18377.	10.3	63
16	Mixed convective heat transfer of CO2 at supercritical pressures flowing upward through a vertical helically coiled tube. Applied Thermal Engineering, 2015, 88, 61-70.	6.0	59
17	Dropwise condensation on superhydrophobic nanostructure surface, Part I: Long-term operation and nanostructure failure. International Journal of Heat and Mass Transfer, 2019, 129, 86-95.	4.8	59
18	The general supercritical heat transfer correlation for vertical up-flow tubes: K number correlation. International Journal of Heat and Mass Transfer, 2020, 148, 119080.	4.8	58

#	Article	IF	Citations
19	Experimental study of heat transfer and start-up of loop heat pipe with multiscale porous wicks. Applied Thermal Engineering, 2017, 117, 782-798.	6.0	55
20	Froude number dominates condensation heat transfer of R245fa in tubes: Effect of inclination angles. International Journal of Multiphase Flow, 2015, 71, 98-115.	3.4	50
21	Minimum <inline-formula> <tex-math notation="LaTeX">$({h,phi })-$ </tex-math></inline-formula>Entropy Control for Non-Gaussian Stochastic Networked Control Systems and Its Application to a Networked DC Motor Control System. IEEE Transactions on Control Systems Technology, 2015, 23, 406-411.	5.2	49
22	Operation of an organic Rankine cycle dependent on pumping flow rates and expander torques. Energy, 2015, 90, 864-878.	8.8	47
23	Chance-constrained two-stage fractional optimization for planning regional energy systems in British Columbia, Canada. Applied Energy, 2015, 154, 663-677.	10.1	47
24	Numerical study on drag reduction and heat transfer enhancement in microchannels with superhydrophobic surfaces for electronic cooling. Applied Thermal Engineering, 2015, 88, 71-81.	6.0	47
25	3D heterogeneous wetting microchannel surfaces for boiling heat transfer enhancement. Applied Surface Science, 2018, 457, 891-901.	6.1	47
26	Integrated flat heat pipe with a porous network wick for high-heat-flux electronic devices. Experimental Thermal and Fluid Science, 2017, 85, 119-131.	2.7	46
27	Mode selection between sliding and rolling for droplet on inclined surface: Effect of surface wettability. International Journal of Heat and Mass Transfer, 2018, 122, 45-58.	4.8	46
28	Thermodynamic selection criteria of zeotropic mixtures for subcritical organic Rankine cycle. Energy, 2019, 167, 484-497.	8.8	46
29	The electro-spraying characteristics of ethanol for application in a small-scale combustor under combined electric field. Applied Thermal Engineering, 2015, 87, 595-604.	6.0	43
30	Porous-wall microchannels generate high frequency â€œeye-blinkingâ€•interface oscillation, yielding ultra-stable wall temperatures. International Journal of Heat and Mass Transfer, 2016, 101, 341-353.	4.8	43
31	Dropwise condensation heat transfer on superhydrophilic-hydrophobic network hybrid surface. International Journal of Heat and Mass Transfer, 2019, 132, 52-67.	4.8	42
32	Nucleate boiling on nanostructured surfaces using molecular dynamics simulations. International Journal of Thermal Sciences, 2020, 152, 106325.	4.9	42
33	Overlap energy utilization reaches maximum efficiency for S-CO2 coal fired power plant: A new principle. Energy Conversion and Management, 2019, 195, 99-113.	9.2	41
34	Technical and economical optimization for a typical solar hybrid coal-fired power plant in China. Applied Thermal Engineering, 2017, 115, 549-557.	6.0	40
35	Critical supercritical-boiling-number to determine the onset of heat transfer deterioration for supercritical fluids. Solar Energy, 2020, 195, 27-36.	6.1	39
36	Dropwise condensation on superhydrophobic nanostructure surface, part II: Mathematical model. International Journal of Heat and Mass Transfer, 2018, 127, 1170-1187.	4.8	38

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37	Water drop impacts on a single-layer of mesh screen membrane: Effect of water hammer pressure and advancing contact angles. Experimental Thermal and Fluid Science, 2017, 82, 83-93.	2.7	37
38	Transcritical pressure Organic Rankine Cycle (ORC) analysis based on the integrated-average temperature difference in evaporators. Applied Thermal Engineering, 2015, 88, 2-13.	6.0	36
39	Numerical investigation of droplet spreading and heat transfer on hot substrates. International Journal of Heat and Mass Transfer, 2018, 121, 402-411.	4.8	31
40	Experimental and modeling investigation of an organic Rankine cycle system based on the scroll expander. Energy, 2017, 134, 35-49.	8.8	29
41	Mixed dropwise-filmwise condensation heat transfer on biphilic surface. International Journal of Heat and Mass Transfer, 2020, 150, 119273.	4.8	29
42	The critical nanofluid concentration as the crossover between changed and unchanged solar-driven droplet evaporation rates. Nano Energy, 2019, 57, 791-803.	16.0	27
43	Convective dropwise condensation heat transfer in mini-channels with biphilic surface. International Journal of Heat and Mass Transfer, 2019, 134, 69-84.	4.8	27
44	Condensation heat transfer of R245fa in tubes with and without lyophilic porous-membrane-tube insert. International Journal of Heat and Mass Transfer, 2015, 88, 261-275.	4.8	25
45	The energy-saving mechanism of coal-fired power plant with Sâ€“CO2 cycle compared to steam-Rankine cycle. Energy, 2020, 195, 116965.	8.8	25
46	The phase separation concept condensation heat transfer in horizontal tubes for low-grade energy utilization. Energy, 2014, 69, 787-800.	8.8	24
47	Design, Construction, and Characterization of an Adjustable 70â€‰kW High-Flux Solar Simulator. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	24
48	Effects of electric field intensity and frequency of AC electric field on the small-scale ethanol diffusion flame behaviors. Applied Thermal Engineering, 2017, 115, 1330-1336.	6.0	23
49	Solar evaporation of a hanging plasmonic droplet. Solar Energy, 2018, 170, 184-191.	6.1	23
50	Effect of fluid dryness and critical temperature on trans-critical organic Rankine cycle. Energy, 2019, 174, 97-109.	8.8	23
51	The K number, a new analogy criterion number to connect pressure drop and heat transfer of sCO2 in vertical tubes. Applied Thermal Engineering, 2021, 182, 116078.	6.0	23
52	The connection between wall wettability, boiling regime and symmetry breaking for nanoscale boiling. International Journal of Thermal Sciences, 2019, 145, 106033.	4.9	21
53	A comprehensive understanding of enhanced condensation heat transfer using phase separation concept. Energy, 2019, 172, 661-674.	8.8	21
54	Effect of non-uniform heating on scCO2 heat transfer deterioration. Applied Thermal Engineering, 2020, 181, 115967.	6.0	21

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55	Phase distribution including a bubblelike region in supercritical fluid. Physical Review E, 2021, 104, 014142.	2.1	21
56	An experimental study of two-phase pressure drop of acetone in triangular silicon micro-channels. Applied Thermal Engineering, 2015, 80, 76-86.	6.0	20
57	Theoretical Analysis of a Sessile Evaporating Droplet on a Curved Substrate with an Interfacial Cooling Effect. Langmuir, 2020, 36, 5618-5625.	3.5	20
58	A New Mechanism of Lightâ€Induced Bubble Growth to Propel Microbubble Piston Engine. Small, 2020, 16, e2001548.	10.0	20
59	Gain scheduling control of waste heat energy conversion systems based on an LPV (linear parameter) Tj ETQq1 1 0.784314 rgBT /Ove	8.8	19
60	Condensation heat transfer of R245fa in a shell-tube heat exchanger at slightly inclined angles. International Journal of Thermal Sciences, 2017, 115, 197-209.	4.9	19
61	Non-dimensional numerical study of droplet impacting on heterogeneous hydrophilicity/hydrophobicity surface. International Journal of Heat and Mass Transfer, 2018, 116, 951-968.	4.8	18
62	Vertically oriented TiO2 nanotube arrays with different anodization times for enhanced boiling heat transfer. Science China Technological Sciences, 2012, 55, 2184-2190.	4.0	17
63	Modulated heat transfer tube with short conical-mesh inserts: A linking from microflow to macroflow. International Journal of Heat and Mass Transfer, 2015, 89, 291-307.	4.8	17
64	Coupling Diffusion Welding Technique and Mesh Screen Creates Heterogeneous Metal Surface for Droplets Array. Advanced Materials Interfaces, 2017, 4, 1700684.	3.7	17
65	Blue phase liquid crystal microcapsules: confined 3D structure inducing fascinating properties. Journal of Materials Chemistry C, 2019, 7, 4822-4827.	5.5	17
66	Wavelet decomposition method decoupled boiling/evaporation oscillation mechanisms over two to three timescales: A study for a microchannel with pin fin structure. International Journal of Multiphase Flow, 2015, 72, 53-72.	3.4	16
67	Performance assessment of cascade control loops with non-Gaussian disturbances using entropy information. Chemical Engineering Research and Design, 2015, 104, 68-80.	5.6	16
68	Heat transfer and pressure drop characteristics in a circular tube with mesh cylinder inserts. International Communications in Heat and Mass Transfer, 2016, 75, 130-136.	5.6	16
69	The definition of non-dimensional integration temperature difference and its effect on organic Rankine cycle. Applied Energy, 2016, 167, 17-33.	10.1	16
70	Drop spreading and penetrating on micro/nano particle sintering porous with multiscale structure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 9-22.	4.7	16
71	Microscale phase separation condensers with varied cross sections of each fluid phase: Heat transfer enhancement and pressure drop reduction. International Journal of Heat and Mass Transfer, 2018, 118, 439-454.	4.8	16
72	Scale law of sCO2 coal fired power plants regarding system performance dependent on power capacities. Energy Conversion and Management, 2020, 226, 113505.	9.2	16

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73	Enhancement of loop heat pipe heat transfer performance with superhydrophilic porous wick. International Journal of Thermal Sciences, 2020, 156, 106466.	4.9	16
74	Effects of direct-current electric fields on flame shape and combustion characteristics of ethanol in small scale. Advances in Mechanical Engineering, 2016, 8, 168781401562484.	1.6	15
75	PLS-based multi-loop robust H2 control for improvement of operating efficiency of waste heat energy conversion systems with organic Rankine cycle. Energy, 2017, 123, 460-472.	8.8	15
76	An actual thermal efficiency expression for heat engines: Effect of heat transfer roadmaps. International Journal of Heat and Mass Transfer, 2017, 113, 556-568.	4.8	15
77	Recent developments of control strategies for organic Rankine cycle (ORC) systems. Transactions of the Institute of Measurement and Control, 2019, 41, 1528-1539.	1.7	15
78	Solar steam generation enabled by bubbly flow nanofluids. Solar Energy Materials and Solar Cells, 2020, 206, 110292.	6.2	15
79	Phase separation evaporator using pin-fin-porous wall microchannels: Comprehensive upgrading of thermal-hydraulic operating performance. International Journal of Heat and Mass Transfer, 2021, 164, 120460.	4.8	15
80	Numerical investigations of head-on collisions of binary unequal-sized droplets on superhydrophobic walls. Physics of Fluids, 2021, 33, .	4.0	15
81	New combined supercritical carbon dioxide cycles for coal-fired power plants. Sustainable Cities and Society, 2019, 50, 101656.	10.4	14
82	Development and dynamic characteristics of an Organic Rankine Cycle. Science Bulletin, 2014, 59, 4367-4378.	1.7	13
83	Plasmon heating of one-dimensional gold nanoparticle chains. Solar Energy, 2018, 173, 665-674.	6.1	13
84	How to Construct a Combined S-CO2 Cycle for Coal Fired Power Plant?. Entropy, 2019, 21, 19.	2.2	13
85	Effects of Temperature and Ionic Concentration on Nanodroplet Electrocoalescence. Langmuir, 2019, 35, 750-759.	3.5	13
86	Selection criteria of zeotropic mixtures for subcritical organic Rankine cycle based on thermodynamic and thermo-economic analysis. Applied Thermal Engineering, 2020, 180, 115837.	6.0	13
87	Failure and Recovery of Droplet Nucleation and Growth on Damaged Nanostructures: A Molecular Dynamics Study. Langmuir, 2020, 36, 13716-13724.	3.5	13
88	Solar vapor generation using bubbly flow nanofluids with collaborative light-harvesting nanoparticles. Solar Energy, 2020, 207, 1214-1221.	6.1	13
89	Numerical study on convective heat transfer of supercritical CO2 in vertically upward and downward tubes. Science China Technological Sciences, 2021, 64, 995-1006.	4.0	13
90	The wavelength dependent photovoltaic effects caused by two different mechanisms in carbon nanotube film/CuO nanowire array heterodimensional contacts. Applied Physics Letters, 2012, 100, 251113.	3.3	12

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91	The decoupling and synergy strategy to construct multiscales from nano to millimeter for heat pipe. International Journal of Heat and Mass Transfer, 2016, 93, 918-933.	4.8	12
92	Numerical investigation on spontaneous droplet/bubble migration under thermal radiation. International Journal of Thermal Sciences, 2018, 129, 115-123.	4.9	12
93	R245fa condensation heat transfer in a phase separation condenser. Experimental Thermal and Fluid Science, 2018, 98, 346-361.	2.7	12
94	Steady and transient operation of an organic Rankine cycle power system. Renewable Energy, 2019, 133, 284-294.	8.9	12
95	Switchable heat transfer in nano Janus-interface-system. International Journal of Heat and Mass Transfer, 2018, 127, 761-771.	4.8	10
96	Rigorous modelling and deterministic multi-objective optimization of a super-critical CO2 power system based on equation of state and non-linear programming. Energy Conversion and Management, 2019, 198, 111798.	9.2	10
97	Synergetics: The cooperative phenomenon in multi-compressions S-CO2 power cycles. Energy Conversion and Management: X, 2020, 7, 100042.	1.6	10
98	Seed Bubble Guided Heat Transfer in a Single Microchannel. Heat Transfer Engineering, 2011, 32, 1031-1036.	1.9	9
99	Large scale generation of micro-droplet array by vapor condensation on mesh screen piece. Scientific Reports, 2017, 7, 39932.	3.3	9
100	Concept design of supercritical CO2 cycle driven by pressurized fluidized bed combustion (PFBC) boiler. Applied Thermal Engineering, 2020, 166, 114756.	6.0	9
101	Life Cycle Assessment Analysis and Comparison of 1000 MW S-CO2 Coal Fired Power Plant and 1000 MW USC Water-Steam Coal-Fired Power Plant. Journal of Thermal Science, 2022, 31, 463-484.	1.9	9
102	Numerical Analysis on Heat Transfer Characteristics of Supercritical CO2 in Heated Vertical Up-Flow Tube. Materials, 2020, 13, 723.	2.9	9
103	Heat Transfer Prediction of Supercritical Carbon Dioxide in Vertical Tube Based on Artificial Neural Networks. Journal of Thermal Science, 2021, 30, 1751-1767.	1.9	9
104	A comprehensive comparison between substrate heating and light heating induced nanofluid droplet evaporations. Applied Thermal Engineering, 2020, 175, 115389.	6.0	8
105	Particle Separation from Liquid Marbles by the Viscous Folding of Liquid Films. Langmuir, 2022, 38, 2055-2065.	3.5	8
106	The effect of multi-quantum barrier structure on light-emitting diodes performance by a non-isothermal model. Science Bulletin, 2012, 57, 3937-3942.	1.7	7
107	Effects of oxidation processes and microstructures on the hydrophilicity of copper surface. Materials Letters, 2017, 195, 71-75.	2.6	7
108	Manipulation of bubble migration through thermal capillary effect under variable buoyancy. International Journal of Thermal Sciences, 2020, 149, 106199.	4.9	7

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109	Exergy Analysis of Two-Stage Organic Rankine Cycle Power Generation System. Entropy, 2021, 23, 43.	2.2	7
110	Self-heating dependent characteristic of GaN-based light-emitting diodes with and without AlGaInN electron blocking layer. Science Bulletin, 2014, 59, 2460-2469.	1.7	6
111	Multiloop robust Hâˆž control design based on the dynamic PLS approach to chemical processes. Chemical Engineering Research and Design, 2015, 100, 518-529.	5.6	6
112	Effect of gravity levels on the flow pattern modulation by the phase separation concept. Computers and Fluids, 2015, 108, 43-56.	2.5	6
113	Phase separation and flow pattern modulation with a T-type micro-drainage system. Applied Thermal Engineering, 2017, 122, 214-226.	6.0	6
114	Line Tension of Nanodroplets on a Concave Surface. Langmuir, 2021, 37, 4432-4440.	3.5	6
115	Techno-economic study of a distributed hybrid renewable energy system supplying electrical power and heat for a rural house in China. IOP Conference Series: Earth and Environmental Science, 2018, 127, 012001.	0.3	5
116	Single-Reheating or Double-Reheating, Which is Better for S-CO2 Coal Fired Power Generation System?. Journal of Thermal Science, 2019, 28, 431-441.	1.9	5
117	Does sunlight always accelerate water droplet evaporation?. Applied Physics Letters, 2020, 116, .	3.3	5
118	Multiscale Characteristic in Symmetric/Asymmetric Solar-Driven Nanofluid Droplet Evaporation. Langmuir, 2020, 36, 1680-1690.	3.5	5
119	Numerical analysis of bubble bursting at the liquid surface by wave propagation. International Journal of Thermal Sciences, 2020, 152, 106341.	4.9	5
120	The phase separation in a rectangular microchannel by micro-membrane. Applied Thermal Engineering, 2015, 88, 172-184.	6.0	4
121	Self-activated elastocapillary wave promotes boiling heat transfer on soft liquid metal surface. International Communications in Heat and Mass Transfer, 2021, 120, 105019.	5.6	4
122	Filter-Based Fault Diagnosis of Wind Energy Conversion Systems Subject to Sensor Faults. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	3
123	The effect of liquid charge ratio on organic Rankine cycle operation. Applied Thermal Engineering, 2019, 162, 114227.	6.0	3
124	RESEARCH AND DEVELOPMENT OF LOOP HEAT PIPE â€“ A REVIEW. Frontiers in Heat and Mass Transfer, 0, 14, .	0.2	3
125	All-in-one photosynthetic assemblies for solar fuels. Materials Today Energy, 2018, 10, 368-379.	4.7	2
126	Analysis of a coal-fired power system integrated with a reheat S-CO2 cycle. Energy Procedia, 2019, 158, 1461-1466.	1.8	2

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127	Molecular dynamic simulation of bubble nucleation in a nanochannel with a groove. AIP Advances, 2019, 9, 035044.	1.3	2
128	Enhanced photoelectric response of plasmon-active ZnO nanorods by spatial modulation of dielectric environment. Journal of Alloys and Compounds, 2019, 776, 149-155.	5.5	2
129	Thermodynamics analysis of S-CO₂ recompression-reheating cycle for coal fired power plant. Chinese Science Bulletin, 2019, 64, 234-244.	0.7	2
130	Development and validation of a Riemann solver in OpenFOAMÂ® for non-ideal compressible fluid dynamics. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 116-140.	3.1	2
131	Development and application of a modularized geometry optimizer for future supercritical CO₂ turbomachinery optimization. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 95-114.	3.1	2
132	Effect of particle size on the stripping dynamics during impact of liquid marbles onto a liquid film. Soft Matter, 2022, 18, 5230-5238.	2.7	2
133	Investigation on a micro-pin-fin based membrane separator. International Journal of Heat and Mass Transfer, 2016, 95, 426-439.	4.8	1
134	Special Issue dedicated to the 1st International Conference on Supercritical CO2 Power System (ICSCPS 2018). Journal of Thermal Science, 2019, 28, 393-393.	1.9	1
135	In Situ Oil Separation and Collection from Water under Surface Wave Condition. Langmuir, 2021, 37, 6257-6267.	3.5	1
136	Novel Matching Strategy for the Coupling of Heat Flux in Furnace Side and CO2 Temperature in Tube Side to Control the Cooling Wall Temperatures. Journal of Thermal Science, 2021, 30, 1251-1267.	1.9	1
137	CHARACTERISITICS OF POOL BOILING HEAT TRANSFER ON A HETEROGENEOUS WETTING MICROCHANNEL SURFACE. , 2018, , .		1
138	Wettability Transition of a Liquid Droplet on Solid Surface With Nanoscale Inverted Triangular Grooves. , 2019, , .		1
139	Friction pressure drop characteristics of supercritical CO₂ flowing upward in a vertical smooth tube. Chinese Science Bulletin, 2020, 65, 3635-3643.	0.7	1
140	Molecular dynamics study of mechanism of density fluctuation in supercritical fluid. Chinese Science Bulletin, 2020, 65, 1694-1704.	0.7	1
141	A Similarity Principle Research Method for Solar Heating System with Seasonal Water Tank Heat Storage. , 2012, , .		0
142	Experimental investigations on turbulent heat transfer of carbon dioxide in a helically coiled tube. , 2013, , .		0
143	Numerical research on solar heating system with seasonal water tank heat storage. , 2013, , .		0
144	Editorial: The special issue of ENERGY â€“ The International Journal dedicated to the 1st International Conference on Supercritical CO2 Power System (ICSPS-2018). Energy, 2020, 213, 118776.	8.8	0

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145	CONDENSATION HEAT TRANSFER ENHANCEMENT OF R245FA IN TUBE WITH CONICAL MESH INSERTS. , 2018, , .		0
146	EXPERIMENTAL STUDY ON CAPILLARY PERFORMANCE OF MICRO/NANO SCALE SINTERED WICKS. , 2018, , .		0
147	Theoretical Analysis on the Lifetime of Sessile Droplet Evaporation. Mechanisms and Machine Science, 2020, , 907-914.	0.5	0
148	Condensation heat transfer deterioration on superhydrophobic surface with dense nanostructures. Journal of Physics: Conference Series, 2022, 2230, 012027.	0.4	0