

Liang Chen

List of Publications by Year in descending order

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79
papers

1,191
citations

448610

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511568

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79
all docs

79
docs citations

79
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical and experimental studies on the thermal and static characteristics of multi-leaf foil thrust bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 405-420.	1.0	4
2	Experimental Study on Frost Crystal Morphologies and Frosting Characteristics under Different Working Pressures. Applied Sciences (Switzerland), 2022, 12, 4025.	1.3	1
3	Thermodynamic Analysis of Air-Cycle Refrigeration Systems with Expansion Work Recovery for Compartment Air Conditioning. Applied Sciences (Switzerland), 2022, 12, 5287.	1.3	2
4	Influence of Internal Flow on the Performance of High-Speed Centrifugal Pumps with a Fully Sealed Structure. Applied Sciences (Switzerland), 2022, 12, 5263.	1.3	2
5	Heat transfer of insulation structure for large cryogenic wind tunnel. Thermal Science, 2021, 25, 921-932.	0.5	1
6	Internal and external flow characteristics of multi-nozzle spray with liquid nitrogen. Cryogenics, 2021, 114, 103255.	0.9	12
7	Research subjects and hot topics of foil bearings performance in recent twenty years: analysis and prediction. Forschung Im Ingenieurwesen/Engineering Research, 2021, 85, 1029-1042.	1.0	1
8	Improving the stiffness of the aerostatic thrust bearing by using a restrictor with multi-orifice series. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1881-1891.	1.0	8
9	Pneumatic stability analysis of single-pad aerostatic thrust bearing with pocketed orifice. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1857-1866.	1.0	9
10	Role of surfactant in controlling the deposition pattern of a particle-laden droplet: Fundamentals and strategies. Advances in Colloid and Interface Science, 2020, 275, 102049.	7.0	38
11	Thermodynamic analysis of the para-to-ortho hydrogen conversion in cryo-compressed hydrogen vessels for automotive applications. International Journal of Hydrogen Energy, 2020, 45, 24928-24937.	3.8	20
12	Study on a high-speed oil-free pump with fluid hydrodynamic lubrication. Advances in Mechanical Engineering, 2020, 12, 168781402094546.	0.8	6
13	Effects of surface subcooling on the spreading dynamics of an impact water droplet. Physics of Fluids, 2020, 32, .	1.6	33
14	Effects of cooling-recovery venting on the performance of cryo-compressed hydrogen storage for automotive applications. Applied Energy, 2020, 269, 115143.	5.1	8
15	Flow Boiling of Low-Pressure Water in Microchannels of Large Aspect Ratio. Energies, 2020, 13, 2689.	1.6	3
16	The Influence of Internal Heat Exchanger on the Performance of Transcritical CO2 Water Source Heat Pump Water Heater. Energies, 2020, 13, 1787.	1.6	9
17	Optimization Study on a Novel High-Speed Oil-Free Centrifugal Water Pump with Hydrodynamic Bearings. Applied Sciences (Switzerland), 2019, 9, 3050.	1.3	8
18	Numerical Study of the Effects of Injection Fluctuations on Liquid Nitrogen Spray Cooling. Processes, 2019, 7, 564.	1.3	10

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19	Understanding the thermal conductivity of Diamond/Copper composites by first-principles calculations. Carbon, 2019, 148, 249-257.	5.4	51
20	Experimental study on the heat transfer characteristics of saturated liquid nitrogen flow boiling in small-diameter horizontal tubes. Experimental Thermal and Fluid Science, 2019, 101, 27-36.	1.5	13
21	Unsteady cavitation of liquid nitrogen flow in spray nozzles under fluctuating conditions. Cryogenics, 2019, 97, 144-148.	0.9	12
22	Effects of operational parameters on liquid nitrogen spray cooling. Applied Thermal Engineering, 2019, 146, 85-91.	3.0	21
23	Roles of Point Defects in Thermal Transport in Perovskite Barium Stannate. Journal of Physical Chemistry C, 2018, 122, 11482-11490.	1.5	15
24	Numerical study on the heat transfer characteristics of oscillating flow in cryogenic regenerators. Cryogenics, 2018, 96, 99-107.	0.9	8
25	Flow boiling instability of liquid nitrogen in horizontal mini channels. Applied Thermal Engineering, 2018, 144, 812-824.	3.0	20
26	Numerical study of liquid nitrogen cavitating flow through nozzles of various shapes. Cryogenics, 2018, 94, 62-78.	0.9	9
27	Energetic and Exergetic Analysis of a Transcritical N2O Refrigeration Cycle with an Expander. Entropy, 2018, 20, 31.	1.1	5
28	Experimental study of liquid nitrogen spray characteristics in atmospheric environment. Applied Thermal Engineering, 2018, 142, 717-722.	3.0	24
29	Transient modeling and influence of operating parameters on thermodynamic performance of miniature Joule-Thomson cryocooler. Applied Thermal Engineering, 2018, 143, 1093-1100.	3.0	10
30	Static characteristics of six pads multilayer protuberant foil thrust bearings. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 158-164.	1.0	16
31	Effects of injection pressure difference on droplet size distribution and spray cone angle in spray cooling of liquid nitrogen. Cryogenics, 2017, 83, 57-63.	0.9	36
32	Experimental study on saturated flow boiling heat transfer of nitrogen in a small-diameter horizontal heated tube. Experimental Thermal and Fluid Science, 2017, 86, 257-271.	1.5	13
33	Solving Nongray Boltzmann Transport Equation in Gallium Nitride. Journal of Heat Transfer, 2017, 139, .	1.2	12
34	Two-phase flow boiling frictional pressure drop of liquid nitrogen in horizontal circular mini-tubes: Experimental investigation and comparison with correlations. Cryogenics, 2017, 83, 85-94.	0.9	13
35	Coupled electron-phonon transport and heat transfer pathways in graphene nanostructures. Carbon, 2017, 123, 525-535.	5.4	3
36	Heat confinement of phase-change memory using graphene. , 2017, , .		2

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37	Thermal conductivity of multilayer dielectric films from molecular dynamics simulations. RSC Advances, 2017, 7, 26194-26201.	1.7	6
38	Elastro-hydrodynamic lubrication model of multi-decked foil thrust bearing with copper wire support. Journal of Mechanical Science and Technology, 2017, 31, 4371-4379.	0.7	8
39	Investigation on CHF of saturated liquid nitrogen flow boiling in a horizontal small channel. Applied Thermal Engineering, 2017, 125, 1025-1036.	3.0	28
40	Experimental study on heat transfer characteristics of LN2 saturated flow boiling in a horizontal corrugated tube. Experimental Thermal and Fluid Science, 2017, 80, 259-269.	1.5	2
41	Flow characteristics of liquid nitrogen through solid-cone pressure swirl nozzles. Applied Thermal Engineering, 2017, 110, 290-297.	3.0	24
42	Thermal resistances of crystalline and amorphous few-layer oxide thin films. AIP Advances, 2017, 7, .	0.6	8
43	Modeling of Heat Transfer and Oscillating Flow in the Regenerator of a Pulse Tube Cryocooler Operating at 50 Hz. Applied Sciences (Switzerland), 2017, 7, 553.	1.3	7
44	Influence of Refrigerant Charge Amount and EEV Opening on the Performance of a Transcritical CO2 Heat Pump Water Heater. Energies, 2017, 10, 1521.	1.6	13
45	Experimental Study on the Performance of Water Source Trans-Critical CO2 Heat Pump Water Heater. Energies, 2017, 10, 810.	1.6	14
46	Preliminary experimental study on static loading characteristics of multi-decked protuberant foil thrust bearing. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0008-JAMDSM0008.	0.3	4
47	Investigation of phonon transport and thermal boundary conductance at the interface of functionalized SWCNT and poly (ether-ketone). Journal of Applied Physics, 2016, 120, .	1.1	11
48	Numerical modeling of recuperative cryogenic matrix heat exchangers and the experimental validation. International Journal of Thermal Sciences, 2016, 104, 330-341.	2.6	5
49	The Role of Interfacial Electronic Properties on Phonon Transport in Two-Dimensional MoS ₂ on Metal Substrates. ACS Applied Materials & Interfaces, 2016, 8, 33299-33306.	4.0	21
50	Experimental study on multi-decked protuberant foil thrust bearing with different number of thrust pads. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0106-JAMDSM0106.	0.3	2
51	Study on the coupling performance of a turboexpander compressor applied in cryogenic reverse Brayton air refrigerator. Energy Conversion and Management, 2016, 122, 386-399.	4.4	27
52	Experimental study on the CO2 flow characteristics through electronic expansion valves in heat pump. International Journal of Refrigeration, 2016, 69, 106-113.	1.8	10
53	Comparative studies on double-layered protuberant foil bearing and Hydresil foil bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 212-221.	1.0	2
54	Phonon transport at the interfaces of vertically stacked graphene and hexagonal boron nitride heterostructures. Nanoscale, 2016, 8, 4037-4046.	2.8	38

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55	Influence of chamber pressure on heat transfer characteristics of a closed loop R134-a spray cooling. <i>Experimental Thermal and Fluid Science</i> , 2016, 75, 89-95.	1.5	20
56	Numerical study on the spontaneous condensation flow in an air cryogenic turbo-expander using equilibrium and non-equilibrium models. <i>Cryogenics</i> , 2016, 73, 42-52.	0.9	18
57	Thermal Transport in Fullerene Derivatives Using Molecular Dynamics Simulations. <i>Scientific Reports</i> , 2015, 5, 12763.	1.6	40
58	Study on double-layer protuberant gas foil journal bearings with different foil layers arrangement. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2015, 9, JAMDSM0014-JAMDSM0014.	0.3	3
59	Experimental study on bump-foil gas bearing with different diametric clearance configurations. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2089-2095.	0.7	15
60	Numerical study on tilting pad journal gas bearing with variable stiffness springs. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3059-3067.	0.7	8
61	Study on the matching performance of a low temperature reverse Brayton air refrigerator. <i>Energy Conversion and Management</i> , 2015, 89, 339-348.	4.4	24
62	Effects of bearing clearance and supporting stiffness on performances of rotor-bearing system with multi-decked protuberant gas foil journal bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 780-788.	1.0	21
63	Heat Dissipation Mechanism at Carbon Nanotube Junctions on Silicon Oxide Substrate. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	6
64	Impact of bonding at multi-layer graphene/metal Interfaces on thermal boundary conductance. <i>RSC Advances</i> , 2014, 4, 35852-35861.	1.7	47
65	Numerical study on the load direction effect on the performance of tilting pad-journal gas bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0025-JAMDSM0025.	0.3	2
66	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. <i>Annual Review of Heat Transfer</i> , 2014, 17, 89-145.	0.3	61
67	Experimental investigation on phase change spray cooling with R22. , 2013, , .		0
68	Phonon transmission and thermal conductance across graphene/Cu interface. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	47
69	Experimental Investigation on the Multi-Decked Protuberant Gas Foil Journal Bearing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2013, 7, 791-799.	0.3	6
70	Impact of thermal boundary conductances on power dissipation and electrical breakdown of carbon nanotube network transistors. <i>Journal of Applied Physics</i> , 2012, 112, 124506.	1.1	13
71	Thermal transport in graphene supported on copper. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	84
72	Heat Dissipation Mechanism at Supported CNT-CNT Junctions. , 2012, , .		0

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73	Thermal transport in double-wall carbon nanotubes using heat pulse. Journal of Applied Physics, 2011, 110, .	1.1	17
74	Experimental Study of Thermo-siphon Generator for Solar Energy LiBr Absorption Refrigerator. Journal of Environment and Engineering, 2010, 5, 330-338.	0.2	0
75	Heat Pulse Analysis in Single-Wall and Double-Wall Carbon Nanotubes. , 2010, , .		0
76	Static Analysis of Viscoelastic Supported Gas Foil Thrust Bearing with Journal Inclination. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 1210-1220.	0.3	2
77	Experimental study on a small Brayton air refrigerator under $\hat{\sim}120\text{Å}^{\circ}\text{C}$. Applied Thermal Engineering, 2009, 29, 1702-1706.	3.0	18
78	Experimental study on the performance of an aircraft environmental control system. Applied Thermal Engineering, 2009, 29, 3284-3288.	3.0	49
79	Analytical Study of Aerodynamic Foil Journal Bearing with Elastic Support. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 303-312.	0.3	2