

Wenming Li

List of Publications by Year in descending order

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32
all docs

32
docs citations

32
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow boiling heat transfer of HFE-7000 in nanowire-coated microchannels. Applied Thermal Engineering, 2016, 93, 260-268.	3.0	80
2	Enhanced flow boiling in microchannels using auxiliary channels and multiple micronozzles (I): Characterizations of flow boiling heat transfer. International Journal of Heat and Mass Transfer, 2018, 116, 208-217.	2.5	68
3	Flow boiling of HFE-7100 in silicon microchannels integrated with multiple micro-nozzles and reentry micro-cavities. International Journal of Heat and Mass Transfer, 2018, 123, 354-366.	2.5	59
4	A comparative study of flow boiling HFE-7100 in silicon nanowire and plainwall microchannels. International Journal of Heat and Mass Transfer, 2018, 124, 829-840.	2.5	50
5	Enhanced flow boiling in microchannels through integrating multiple micro-nozzles and reentry microcavities. Applied Physics Letters, 2017, 110, .	1.5	45
6	Force analysis and bubble dynamics during flow boiling in silicon nanowire microchannels. International Journal of Heat and Mass Transfer, 2016, 101, 915-926.	2.5	42
7	Realizing highly coordinated, rapid and sustainable nucleate boiling in microchannels on HFE-7100. International Journal of Heat and Mass Transfer, 2019, 133, 1219-1229.	2.5	41
8	Supercapillary Architecture-Activated Two-Phase Boundary Layer Structures for Highly Stable and Efficient Flow Boiling Heat Transfer. Advanced Materials, 2020, 32, e1905117.	11.1	38
9	Enhanced flow boiling in microchannels using auxiliary channels and multiple micronozzles (II): Enhanced CHF and reduced pressure drop. International Journal of Heat and Mass Transfer, 2017, 115, 264-272.	2.5	31
10	Effects of thermal conductivity and density on phase change materials-based thermal energy storage systems. Energy, 2019, 172, 580-591.	4.5	25
11	Experimental and theoretical studies of critical heat flux of flow boiling in microchannels with microbubble-excited high-frequency two-phase oscillations. International Journal of Heat and Mass Transfer, 2015, 88, 368-378.	2.5	22
12	High-frequency alternating nucleate boiling of water enabled by microslot arrays in microchannels. International Journal of Heat and Mass Transfer, 2020, 150, 119271.	2.5	21
13	Capillary-Assisted Evaporation/Boiling in PDMS Microchannel Integrated with Wicking Microstructures. Langmuir, 2020, 36, 12143-12149.	1.6	19
14	Flow boiling in microchannels enhanced by parallel microgrooves fabricated on the bottom surfaces. International Journal of Heat and Mass Transfer, 2021, 166, 120756.	2.5	19
15	Transient force analysis and bubble dynamics during flow boiling in silicon nanowire microchannels. International Journal of Heat and Mass Transfer, 2016, 101, 937-947.	2.5	18
16	Enhanced flow boiling in microchannels integrated with supercapillary pinfin fences. International Journal of Heat and Mass Transfer, 2022, 183, 122185.	2.5	17
17	Single- and Two-Phase Thermal Transport in Microchannels With Embedded Staggered Herringbone Mixers. Journal of Microelectromechanical Systems, 2014, 23, 1346-1358.	1.7	16
18	Optimizing L-shaped heat pipes with partially-hybrid mesh-groove wicking structures. International Journal of Heat and Mass Transfer, 2021, 170, 120926.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Silicon microchannels flow boiling enhanced via microporous decorated sidewalls. International Journal of Heat and Mass Transfer, 2022, 191, 122817.	2.5	15
20	Enhanced flow boiling in microchannels by incorporating multiple micro-nozzles and micro-pinfin fences. International Journal of Heat and Mass Transfer, 2021, 165, 120695.	2.5	13
21	Enhanced Flow Boiling in Microchannels Integrated with Hierarchical Structures of Micro-Pinfin Fences and Nanowires. Langmuir, 2021, 37, 8989-8996.	1.6	12
22	Design, modeling, and experimental validation of an acoustofluidic platform for nanoscale molecular synthesis and detection. Physics of Fluids, 2019, 31, 082007.	1.6	11
23	A remarkable CHF of 345W/cm ² is achieved in a wicked-microchannel using HFE-7100. International Journal of Heat and Mass Transfer, 2022, 187, 122527.	2.5	11
24	Wicking Nanofence-Activated Boundary Layer to Enhance Two-Phase Transport in Microchannels. Langmuir, 2020, 36, 15536-15542.	1.6	10
25	Favourably regulating two-phase flow regime of flow boiling HFE-7100 in microchannels using silicon nanowires. Scientific Reports, 2021, 11, 11131.	1.6	5
26	Enhanced Flow Boiling in Microchannels Using Auxiliary Channels and Multiple Micronozzles. , 2016, , .		4
27	Integrate Monolithic Nanostructures in Microchannels to Enhance Flow Boiling Heat Transfer of HFE-7000. , 2015, , .		2
28	Orientation Effects on Flow Boiling Silicon Nanowire Microchannels. , 2016, , .		2
29	A Numerical Parametric Study of Flow and Heat Transfer in Circular and Zig-Zag Square Microchannel Heat Sinks. , 2016, , .		1
30	Phase-Change Heat Transfer: Supercapillary Architecture-Activated Two-Phase Boundary Layer Structures for Highly Stable and Efficient Flow Boiling Heat Transfer (Adv. Mater. 2/2020). Advanced Materials, 2020, 32, 2070013.	11.1	1
31	REALIZE HIGHLY COORDINATED, RAPID AND SUSTAINABLE NUCLEATE BOILING IN MICROCHANNELS ON HFE7100. , 2018, , .		1
32	Force Analysis of Bubble Dynamics in Flow Boiling Silicon Nanowire Microchannels. , 2016, , .		0