

Xiande Fang

List of Publications by Year in descending order

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74
papers

2,232
citations

201674

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74
all docs

74
docs citations

74
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Correlation of Heat Transfer Coefficients for Flow Boiling in Serrated Channels. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	0
2	An overview of gravity effects on flow boiling instabilities. Progress in Aerospace Sciences, 2022, 128, 100764.	12.1	8
3	Study of the heat transfer design of an integrated thermal management system for hypersonic vehicles using supercritical nitrogen as expendable coolant. Aerospace Science and Technology, 2022, 123, 107440.	4.8	8
4	Investigation of Nucleate Pool Boiling Heat Transfer of Water on Platinum Wire Under Hypergravity and Earth's Gravity. Microgravity Science and Technology, 2022, 34, 1.	1.4	2
5	Experimental study on saturated flow boiling heat transfer of R1234yf in a horizontal 2.01 mm tube under hypergravity. International Journal of Refrigeration, 2021, 127, 12-20.	3.4	6
6	Evaluation of applicability of empirical models of turbine performance to aircraft engine. Aerospace Science and Technology, 2021, 117, 106953.	4.8	4
7	Numerical Simulation on the Boiling Flow Patterns of Al ₂ O ₃ -Water Nanofluid in Micro/Minichannel under Different Hypergravity Levels and Directions. International Journal of Aerospace Engineering, 2021, 2021, 1-12.	0.9	4
8	Correlations for friction factor of turbulent pipe flow under supercritical pressure: Review and a new correlation. Progress in Nuclear Energy, 2020, 118, 103085.	2.9	15
9	Prediction of critical heat flux for supercritical water and CO ₂ flowing upward in vertical heated tubes. International Journal of Heat and Mass Transfer, 2020, 159, 120115.	4.8	7
10	Effect of vapor condensation on ascending performance of stratospheric airship. Advances in Space Research, 2020, 65, 2062-2071.	2.6	3
11	Thermal performance analysis of solar array for solar powered stratospheric airship. Applied Thermal Engineering, 2020, 171, 115077.	6.0	11
12	Saturated flow boiling heat transfer: review and assessment of prediction methods. Heat and Mass Transfer, 2019, 55, 197-222.	2.1	30
13	Experimental investigation of gravity and channel size effects on flow boiling heat transfer under hypergravity. Aerospace Science and Technology, 2019, 94, 105372.	4.8	18
14	Applicability of empirical models of isentropic efficiency and mass flow rate of dynamic compressors to jet engines. Progress in Aerospace Sciences, 2019, 106, 32-42.	12.1	15
15	Experimental Study of Pool Boiling Critical Heat Flux on Thin Wires under Various Gravities. Microgravity Science and Technology, 2019, 31, 339-345.	1.4	8
16	A method for developing correlations for subcooled flow boiling heat transfer and its application to water. Fusion Engineering and Design, 2018, 129, 286-290.	1.9	6
17	An experimental study of flow boiling frictional pressure drop of R134a in a horizontal 1.002 mm tube under hypergravity. International Journal of Heat and Mass Transfer, 2018, 118, 247-256.	4.8	13
18	Numerical research on the thermal performance of high altitude scientific balloons. Applied Thermal Engineering, 2017, 114, 51-57.	6.0	21

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19	Review of correlations for subcooled flow boiling heat transfer and assessment of their applicability to water. <i>Fusion Engineering and Design</i> , 2017, 122, 52-63.	1.9	37
20	A general correlation for saturated flow boiling heat transfer in channels of various sizes and flow directions. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 972-981.	4.8	66
21	A comparative study of correlations of critical heat flux of pool boiling. <i>Journal of Nuclear Science and Technology</i> , 2017, 54, 1-12.	1.3	17
22	Heat transfer and critical heat flux of nanofluid boiling: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 924-940.	16.4	119
23	An experimental study of flow boiling frictional pressure drop of R134a and evaluation of existing correlations. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 150-163.	4.8	27
24	Experimental investigation of saturated flow boiling heat transfer of nitrogen in a macro-tube. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 681-690.	4.8	18
25	An empirical model for estimating the atmospheric transmittance of upward infrared radiation at different altitudes. <i>Advances in Space Research</i> , 2016, 58, 2453-2459.	2.6	7
26	Numerical study of forced convective heat transfer around airships. <i>Advances in Space Research</i> , 2016, 57, 776-781.	2.6	11
27	Modeling of convective heat transfer of RP-3 aviation kerosene in vertical miniature tubes under supercritical pressure. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 272-277.	4.8	14
28	An experimental study of flow boiling heat transfer of R134a and evaluation of existing correlations. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 1143-1157.	4.8	45
29	Evaluation Analysis of Correlations of Flow Boiling Heat Transfer Coefficients Applied to Ammonia. <i>Heat Transfer Engineering</i> , 2016, 37, 32-44.	1.9	13
30	Heat transfer correlation for saturated flow boiling of water. <i>Applied Thermal Engineering</i> , 2015, 76, 147-156.	6.0	39
31	Thermal modeling of stratospheric airships. <i>Progress in Aerospace Sciences</i> , 2015, 75, 26-37.	12.1	51
32	An experimental study of R134a flow boiling heat transfer in a 4.07 mm tube under Earth's gravity and hypergravity. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 399-408.	4.8	15
33	Flow condensation heat transfer correlations in horizontal channels. <i>International Journal of Refrigeration</i> , 2015, 59, 102-114.	3.4	19
34	A review of flow boiling heat transfer of nanofluids. <i>Applied Thermal Engineering</i> , 2015, 91, 1003-1017.	6.0	67
35	Assessment of correlations of void fraction for two-phase refrigerant flow in pipes. <i>Applied Thermal Engineering</i> , 2015, 75, 1156-1158.	6.0	1
36	An experimental investigation of flow boiling heat transfer and pressure drop of R134a in a horizontal 2.168 mm tube under hypergravity. Part II: Heat transfer coefficient. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 597-604.	4.8	11

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37	An assessment of correlations of forced convection heat transfer to water at supercritical pressure. <i>Annals of Nuclear Energy</i> , 2015, 76, 451-460.	1.8	32
38	Review of Correlations of Flow Boiling Heat Transfer Coefficients for Nitrogen. , 2014, , .		3
39	An experimental investigation of flow boiling heat transfer and pressure drop of R134a in a horizontal 2.168mm tube under hypergravity. Part I: Frictional pressure drop. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 769-779.	4.8	9
40	A simple model to predict solar radiation under clear sky conditions. <i>Advances in Space Research</i> , 2014, 53, 1239-1245.	2.6	39
41	A note on the Chen correlation of saturated flow boiling heat transfer. <i>International Journal of Refrigeration</i> , 2014, 48, 100-104.	3.4	24
42	A new heat transfer correlation for supercritical water flowing in vertical tubes. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 156-160.	4.8	58
43	Correlations of void fraction for two-phase refrigerant flow in pipes. <i>Applied Thermal Engineering</i> , 2014, 64, 242-251.	6.0	106
44	Empirical models for efficiency and mass flow rate of centrifugal compressors. <i>International Journal of Refrigeration</i> , 2014, 41, 190-199.	3.4	25
45	A new model for atmospheric radiation under clear sky condition at various altitudes. <i>Advances in Space Research</i> , 2014, 54, 1044-1048.	2.6	22
46	A new correlation of flow boiling heat transfer coefficients for carbon dioxide. <i>International Journal of Heat and Mass Transfer</i> , 2013, 64, 802-807.	4.8	52
47	A new correlation of flow boiling heat transfer coefficients based on R134a data. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 279-283.	4.8	57
48	Numerical study of forced convective heat transfer around a spherical aerostat. <i>Advances in Space Research</i> , 2013, 52, 2199-2203.	2.6	8
49	Correlations for two-phase friction pressure drop under microgravity. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 594-605.	4.8	7
50	Solar photovoltaic and thermal technology and applications in China. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 23, 330-340.	16.4	45
51	A new correlation of two-phase frictional pressure drop for condensing flow in pipes. <i>Nuclear Engineering and Design</i> , 2013, 263, 87-96.	1.7	28
52	Review of correlations of flow boiling heat transfer coefficients for carbon dioxide. <i>International Journal of Refrigeration</i> , 2013, 36, 2017-2039.	3.4	46
53	Evaluation Analysis of CO ₂ “Specific Correlations of Flow Boiling Heat Transfer Coefficients. , 2013, , .		0
54	Evaluation of Correlations of Flow Boiling Heat Transfer of R22 in Horizontal Channels. <i>Scientific World Journal, The</i> , 2013, 2013, 1-14.	2.1	6

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55	Modeling and analysis of floating performances of stratospheric semi-rigid airships. <i>Advances in Space Research</i> , 2012, 50, 881-890.	2.6	27
56	A new correlation of two-phase frictional pressure drop for evaporating flow in pipes. <i>International Journal of Refrigeration</i> , 2012, 35, 2039-2050.	3.4	71
57	Evaluation of frictional pressure drop correlations for two-phase flow in pipes. <i>Nuclear Engineering and Design</i> , 2012, 253, 86-97.	1.7	118
58	Evaluation of using two-phase frictional pressure drop correlations for normal gravity to microgravity and reduced gravity. <i>Advances in Space Research</i> , 2012, 49, 351-364.	2.6	19
59	Performance simulation of high altitude scientific balloons. <i>Advances in Space Research</i> , 2012, 49, 1045-1052.	2.6	105
60	Pressure drop and friction factor correlations of supercritical flow. <i>Nuclear Engineering and Design</i> , 2012, 242, 323-330.	1.7	54
61	Research on Thermal Characteristics of Photovoltaic Array of Stratospheric Airship. <i>Journal of Aircraft</i> , 2011, 48, 1380-1386.	2.4	63
62	Modified heat transfer equation for in-tube supercritical CO2 cooling. <i>Applied Thermal Engineering</i> , 2011, 31, 3036-3042.	6.0	51
63	Dynamic simulation of breakaway characteristics of tethered aerostats. <i>Advances in Space Research</i> , 2011, 48, 1258-1264.	2.6	6
64	Development of an empirical model of turbine efficiency using the Taylor expansion and regression analysis. <i>Energy</i> , 2011, 36, 2937-2942.	8.8	18
65	New correlations of single-phase friction factor for turbulent pipe flow and evaluation of existing single-phase friction factor correlations. <i>Nuclear Engineering and Design</i> , 2011, 241, 897-902.	1.7	231
66	Heating performance investigation of a bidirectional partition fluid thermal diode. <i>Renewable Energy</i> , 2010, 35, 679-684.	8.9	8
67	Modeling of turbine mass flow rate performances using the Taylor expansion. <i>Applied Thermal Engineering</i> , 2010, 30, 1824-1831.	6.0	22
68	A compact and accurate empirical model for turbine mass flow characteristics. <i>Energy</i> , 2010, 35, 4819-4823.	8.8	27
69	Methodologies for shortening test period of coupled heat-moisture transfer in building envelopes. <i>Applied Thermal Engineering</i> , 2009, 29, 787-792.	6.0	5
70	Regression methodology for sensitivity analysis of solar heating walls. <i>Applied Thermal Engineering</i> , 2008, 28, 2289-2294.	6.0	31
71	A study of the influence of solar radiation on the thermal performance of evaporators of heat pump systems. <i>Applied Thermal Engineering</i> , 2003, 23, 1551-1557.	6.0	6
72	A study of the U-factor of a window with a cloth curtain. <i>Applied Thermal Engineering</i> , 2001, 21, 549-558.	6.0	16

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73	Numerical simulation and sensitivity analysis of lattice passive solar heating walls. Solar Energy, 2000, 69, 55-66.	6.1	31
74	Mathematical Simulation of Transient Thermal Process of Aircraft Cabins. , 1999, , .		0