

Xiande Fang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3930787/publications.pdf>

Version: 2024-02-01

74
papers

2,232
citations

201674

27
h-index

233421

45
g-index

74
all docs

74
docs citations

74
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	New correlations of single-phase friction factor for turbulent pipe flow and evaluation of existing single-phase friction factor correlations. Nuclear Engineering and Design, 2011, 241, 897-902.	1.7	231
2	Heat transfer and critical heat flux of nanofluid boiling: A comprehensive review. Renewable and Sustainable Energy Reviews, 2016, 62, 924-940.	16.4	119
3	Evaluation of frictional pressure drop correlations for two-phase flow in pipes. Nuclear Engineering and Design, 2012, 253, 86-97.	1.7	118
4	Correlations of void fraction for two-phase refrigerant flow in pipes. Applied Thermal Engineering, 2014, 64, 242-251.	6.0	106
5	Performance simulation of high altitude scientific balloons. Advances in Space Research, 2012, 49, 1045-1052.	2.6	105
6	A new correlation of two-phase frictional pressure drop for evaporating flow in pipes. International Journal of Refrigeration, 2012, 35, 2039-2050.	3.4	71
7	A review of flow boiling heat transfer of nanofluids. Applied Thermal Engineering, 2015, 91, 1003-1017.	6.0	67
8	A general correlation for saturated flow boiling heat transfer in channels of various sizes and flow directions. International Journal of Heat and Mass Transfer, 2017, 107, 972-981.	4.8	66
9	Research on Thermal Characteristics of Photovoltaic Array of Stratospheric Airship. Journal of Aircraft, 2011, 48, 1380-1386.	2.4	63
10	A new heat transfer correlation for supercritical water flowing in vertical tubes. International Journal of Heat and Mass Transfer, 2014, 78, 156-160.	4.8	58
11	A new correlation of flow boiling heat transfer coefficients based on R134a data. International Journal of Heat and Mass Transfer, 2013, 66, 279-283.	4.8	57
12	Pressure drop and friction factor correlations of supercritical flow. Nuclear Engineering and Design, 2012, 242, 323-330.	1.7	54
13	A new correlation of flow boiling heat transfer coefficients for carbon dioxide. International Journal of Heat and Mass Transfer, 2013, 64, 802-807.	4.8	52
14	Modified heat transfer equation for in-tube supercritical CO2 cooling. Applied Thermal Engineering, 2011, 31, 3036-3042.	6.0	51
15	Thermal modeling of stratospheric airships. Progress in Aerospace Sciences, 2015, 75, 26-37.	12.1	51
16	Review of correlations of flow boiling heat transfer coefficients for carbon dioxide. International Journal of Refrigeration, 2013, 36, 2017-2039.	3.4	46
17	Solar photovoltaic and thermal technology and applications in China. Renewable and Sustainable Energy Reviews, 2013, 23, 330-340.	16.4	45
18	An experimental study of flow boiling heat transfer of R134a and evaluation of existing correlations. International Journal of Heat and Mass Transfer, 2016, 92, 1143-1157.	4.8	45

#	ARTICLE	IF	CITATIONS
19	A simple model to predict solar radiation under clear sky conditions. <i>Advances in Space Research</i> , 2014, 53, 1239-1245.	2.6	39
20	Heat transfer correlation for saturated flow boiling of water. <i>Applied Thermal Engineering</i> , 2015, 76, 147-156.	6.0	39
21	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
22	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
23	Numerical simulation and sensitivity analysis of lattice passive solar heating walls. <i>Solar Energy</i> , 2000, 69, 55-66.	6.1	31
24	Regression methodology for sensitivity analysis of solar heating walls. <i>Applied Thermal Engineering</i> , 2008, 28, 2289-2294.	6.0	31
25	Saturated flow boiling heat transfer: review and assessment of prediction methods. <i>Heat and Mass Transfer</i> , 2019, 55, 197-222.	2.1	30
26	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
27	A compact and accurate empirical model for turbine mass flow characteristics. <i>Energy</i> , 2010, 35, 4819-4823.	8.8	27
28	Modeling and analysis of floating performances of stratospheric semi-rigid airships. <i>Advances in Space Research</i> , 2012, 50, 881-890.	2.6	27
29	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
30	Empirical models for efficiency and mass flow rate of centrifugal compressors. <i>International Journal of Refrigeration</i> , 2014, 41, 190-199.	3.4	25
31	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
32	Modeling of turbine mass flow rate performances using the Taylor expansion. <i>Applied Thermal Engineering</i> , 2010, 30, 1824-1831.	6.0	22
33	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
34	Numerical research on the thermal performance of high altitude scientific balloons. <i>Applied Thermal Engineering</i> , 2017, 114, 51-57.	6.0	21
35	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
36	Flow condensation heat transfer correlations in horizontal channels. <i>International Journal of Refrigeration</i> , 2015, 59, 102-114.	3.4	19

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Experimental investigation of gravity and channel size effects on flow boiling heat transfer under hypergravity. <i>Aerospace Science and Technology</i> , 2019, 94, 105372.	4.8	18
40	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
41	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
42	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
43	Applicability of empirical models of isentropic efficiency and mass flow rate of dynamic compressors to jet engines. <i>Progress in Aerospace Sciences</i> , 2019, 106, 32-42.	12.1	15
44	Correlations for friction factor of turbulent pipe flow under supercritical pressure: Review and a new correlation. <i>Progress in Nuclear Energy</i> , 2020, 118, 103085.	2.9	15
45	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
46	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
47	An experimental study of flow boiling frictional pressure drop of R134a in a horizontal 1.002 mm tube under hypergravity. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 247-256.	4.8	13
48	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
49	Numerical study of forced convective heat transfer around airships. <i>Advances in Space Research</i> , 2016, 57, 776-781.	2.6	11
50	Thermal performance analysis of solar array for solar powered stratospheric airship. <i>Applied Thermal Engineering</i> , 2020, 171, 115077.	6.0	11
51	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
52	Heating performance investigation of a bidirectional partition fluid thermal diode. <i>Renewable Energy</i> , 2010, 35, 679-684.	8.9	8
53	Numerical study of forced convective heat transfer around a spherical aerostat. <i>Advances in Space Research</i> , 2013, 52, 2199-2203.	2.6	8
54	Experimental Study of Pool Boiling Critical Heat Flux on Thin Wires under Various Gravities. <i>Microgravity Science and Technology</i> , 2019, 31, 339-345.	1.4	8

#	ARTICLE	IF	CITATIONS
55	An overview of gravity effects on flow boiling instabilities. Progress in Aerospace Sciences, 2022, 128, 100764.	12.1	8
56	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
57	Correlations for two-phase friction pressure drop under microgravity. International Journal of Heat and Mass Transfer, 2013, 56, 594-605.	4.8	7
58	An empirical model for estimating the atmospheric transmittance of upward infrared radiation at different altitudes. Advances in Space Research, 2016, 58, 2453-2459.	2.6	7
59	Prediction of critical heat flux for supercritical water and CO2 flowing upward in vertical heated tubes. International Journal of Heat and Mass Transfer, 2020, 159, 120115.	4.8	7
60	A study of the influence of solar radiation on the thermal performance of evaporators of heat pump systems. Applied Thermal Engineering, 2003, 23, 1551-1557.	6.0	6
61	Dynamic simulation of breakaway characteristics of tethered aerostats. Advances in Space Research, 2011, 48, 1258-1264.	2.6	6
62	Evaluation of Correlations of Flow Boiling Heat Transfer of R22 in Horizontal Channels. Scientific World Journal, The, 2013, 2013, 1-14.	2.1	6
63	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
64	Experimental study on saturated flow boiling heat transfer of R1234yf in a horizontal 2.01mm tube under hypergravity. International Journal of Refrigeration, 2021, 127, 12-20.	3.4	6
65	Methodologies for shortening test period of coupled heat-moisture transfer in building envelopes. Applied Thermal Engineering, 2009, 29, 787-792.	6.0	5
66	Evaluation of applicability of empirical models of turbine performance to aircraft engine. Aerospace Science and Technology, 2021, 117, 106953.	4.8	4
67	Numerical Simulation on the Boiling Flow Patterns of Al2O3-Water Nanofluid in Micro/Minichannel under Different Hypergravity Levels and Directions. International Journal of Aerospace Engineering, 2021, 2021, 1-12.	0.9	4
68	Review of Correlations of Flow Boiling Heat Transfer Coefficients for Nitrogen. , 2014, , .		3
69	Effect of vapor condensation on ascending performance of stratospheric airship. Advances in Space Research, 2020, 65, 2062-2071.	2.6	3
70	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
71	Assessment of comments on correlations of void fraction for two-phase refrigerant flow in pipes. Applied Thermal Engineering, 2015, 75, 1156-1158.	6.0	1
72	Mathematical Simulation of Transient Thermal Process of Aircraft Cabins. , 1999, , .		0

#	ARTICLE	IF	CITATIONS
73	Evaluation Analysis of CO ₂ Specific Correlations of Flow Boiling Heat Transfer Coefficients. , 2013, , .		0
74	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