Afshin J Ghajar

List of Publications by Year
in descending order

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64 papers	2,174 citations	257450 24 h-index	265206 42 g-index
79 all docs	79 docs citations	79 times ranked	873 citing authors

#	Article	IF	Citations
1	Effect of Vertical Vibration on the Mixing Time of a Passive Scalar in a Sparged Bubble Column Reactor. Fluids, 2020, 5, 6.	1.7	3
2	Flow Patterns, Flow Pattern Maps, and Flow Pattern Transition Models. SpringerBriefs in Applied Sciences and Technology, 2020, , 13-35.	0.4	0
3	Non-Boiling Two-Phase Heat Transfer. SpringerBriefs in Applied Sciences and Technology, 2020, , 103-116.	0.4	0
4	Pressure Drop. SpringerBriefs in Applied Sciences and Technology, 2020, , 65-93.	0.4	0
5	Void Fraction. SpringerBriefs in Applied Sciences and Technology, 2020, , 37-64.	0.4	0
6	Heat transfer and pressure drop in the transition region of smooth horizontal circular tubes with different inlet configurations. Advances in Heat Transfer, 2019, 51, 1-53.	0.9	12
7	Frontiers and Progress in Multiphase Flow and Heat Transfer. Heat Transfer Engineering, 2019, 40, 1299-1300.	1.9	4
8	Experimental investigation of non-boiling gas-liquid two phase flow in downward inclined pipes. Experimental Thermal and Fluid Science, 2017, 89, 219-237.	2.7	39
9	Experimental study of the ultrasonic effect on heat transfer inside a horizontal mini-tube in the laminar region. Applied Thermal Engineering, 2017, 114, 1300-1308.	6.0	37
10	Experimental investigation of non-boiling gas-liquid two phase flow in upward inclined pipes. Experimental Thermal and Fluid Science, 2016, 79, 301-318.	2.7	30
11	Editorial to special issue on advances in heat transfer enhancement. Advances in Mechanical Engineering, 2015, 7, 168781401560237.	1.6	0
12	An Empirical Model to Predict the Transition Between Stratified and Nonstratified Gasâ€“Liquid Two-Phase Flow in Horizontal and Downward Inclined Pipes. Heat Transfer Engineering, 2015, 36, 1485-1494.	1.9	7
13	Pipe insulation thermal conductivity under dry and wet condensing conditions with moisture ingress: A critical review. HVAC and R Research, 2014, 20, 458-479.	0.6	14
14	Flow Patterns, Void Fraction and Pressure Drop in Gas-Liquid Two Phase Flow at Different Pipe Orientations. , 2014, , 157-212.		12
15	A flow pattern independent drift flux model based void fraction correlation for a wide range of gasâ€“liquid two phase flow. International Journal of Multiphase Flow, 2014, 59, 186-205.	3.4	209
16	Correlating Isothermal Friction Factor Data for Micro-Fin Tubes Using Logistic Dose-Response Curve Fitting Method. Heat Transfer Engineering, 2014, 35, 996-1006.	1.9	0
17	Effect of inlet geometries and heating on the entrance and fully-developed friction factors in the laminar and transition regions of a horizontal tube. Experimental Thermal and Fluid Science, 2013, 44, 680-696.	2.7	48
18	Effect of Void Fraction and Two-Phase Dynamic Viscosity Models on Prediction of Hydrostatic and Frictional Pressure Drop in Vertical Upward Gasâ€“Liquid Two-Phase Flow. Heat Transfer Engineering, 2013, 34, 1044-1059.	1.9	32

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19	Effect of Void Fraction on Pressure Drop in Upward Vertical Two-Phase Gas-Liquid Pipe Flow. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	9
20	In Celebration of Professor John Richard Thome on His 60th Birthday. Heat Transfer Engineering, 2013, 34, 1013-1015.	1.9	0
21	Experimental Investigation of Single-Phase Heat Transfer in a Horizontal Internally Micro-Fin Tube With Three Different Inlet Configurations. , 2012, , .		6
22	Effect of Void Fraction on Pressure Drop in Upward Vertical Two-Phase Gas-Liquid Pipe Flow. , 2012, , .		1
23	Flow Pattern and Pipe Orientation Independent Semi-Empirical Void Fraction Correlation for a Gas-Liquid Two Phase Flow Based on the Concept of Drift Flux Model. , 2012, , .		4
24	Experimental Investigation and Performance Evaluation of Isothermal Frictional Two Phase Pressure Drop Correlations in Vertical Downward Gas-Liquid Two Phase Flow. , 2012, , .		3
25	New optimization method, the algorithms of changes, for heat exchanger design. Chinese Journal of Mechanical Engineering (English Edition), 2012, 25, 55-62.	3.7	4
26	Experimental Investigation and Empirical Analysis of Non-Boiling Gas-Liquid Two Phase Heat Transfer in Vertical Downward Pipe Orientation. , 2012, , .		3
27	Similarities and differences in the flow patterns and void fraction in vertical upward and downward two phase flow. Experimental Thermal and Fluid Science, 2012, 39, 213-227.	2.7	103
28	EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER, FRICTION FACTOR, AND OPTIMAL FIN GEOMETRIES FOR THE INTERNALLY MICROFIN TUBES IN THE TRANSITION AND TURBULENT REGIONS. Journal of Enhanced Heat Transfer, 2012, 19, 457-476.	1.1	21
29	Void Fraction and Flow Patterns of Two-Phase Flow in Upward and Downward Vertical and Horizontal Pipes. , 2012, , 175-201.		13
30	Comparison of Void Fraction Correlations for Different Flow Patterns in Upward Vertical Two-Phase Flow. Heat Transfer Engineering, 2011, 32, 843-860.	1.9	93
31	The Effect of Inner Surface Roughness and Heating on Friction Factor in Horizontal Micro-Tubes. , 2011, , .		6
32	A Mechanistic Heat Transfer Correlation for Non-Boiling Two-Phase Flow in Horizontal, Inclined and Vertical Pipes. , 2011, , .		6
33	Experimental Investigaton of the Single-Phase Friction Factor and Heat Transfer Inside the Horizontal Internally Micro-Fin Tubes in the Transition Region. , 2011, , .		6
34	Heat Transfer Correlation for Two-Phase Flow in Vertical Pipes Using Support Vector Machines. Heat Transfer Engineering, 2011, 32, 1047-1052.	1.9	5
35	Importance of Non-Boiling Two-Phase Flow Heat Transfer in Pipes for Industrial Applications. Heat Transfer Engineering, 2010, 31, 711-732.	1.9	31
36	Recent Developments in Non-Boiling Two-Phase Flow Heat Transfer and Void Fraction in Various Pipe Inclinations. , 2010, , .		0

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37	Experimental Investigation of Friction Factor in the Transition Region for Water Flow in Minitubes and Microtubes. Heat Transfer Engineering, 2010, 31, 646-657.	1.9	46
38	Contribution Analysis of Dimensionless Variables for Laminar and Turbulent Flow Convection Heat Transfer in a Horizontal Tube Using Artificial Neural Network. Heat Transfer Engineering, 2008, 29, 793-804.	1.9	21
39	Single-Phase Friction Factor in Micro-Tubes: A Critical Review of Measurement, Instrumentation and Data Reduction Techniques From 1991-2006. , 2007, , 813.		8
40	Heat Transfer Measurements, Flow Pattern Maps, and Flow Visualization for Non-Boiling Two-Phase Flow in Horizontal and Slightly Inclined Pipe. Heat Transfer Engineering, 2007, 28, 525-540.	1.9	66
41	Validation of a General Heat Transfer Correlation for Non-Boiling Two-Phase Flow With Different Flow Patterns and Pipe Inclination Angles. , 2007, , .		7
42	Single-Phase Heat Transfer in Micro-Tubes: A Critical Review. , 2007, , .		11
43	Comparison of void fraction correlations for different flow patterns in horizontal and upward inclined pipes. International Journal of Multiphase Flow, 2007, 33, 347-370.	3.4	398
44	Transitional Heat Transfer in Plain Horizontal Tubes. Heat Transfer Engineering, 2006, 27, 23-38.	1.9	87
45	A general heat transfer correlation for non-boiling gasâ€“liquid flow with different flow patterns in horizontal pipes. International Journal of Multiphase Flow, 2006, 32, 447-465.	3.4	94
46	Comparison of near-wall treatment methods for high Reynolds number backward-facing step flow. International Journal of Computational Fluid Dynamics, 2005, 19, 493-500.	1.2	48
47	Heat Transfer Measurements and Correlations for Air-Water Two-Phase Slug Flow in a Horizontal Pipe. , 2004, , 745.		4
48	Improved Heat Transfer Correlation in the Transition Region for a Circular Tube with Three Inlet Configurations Using Artificial Neural Networks. Heat Transfer Engineering, 2004, 25, 30-40.	1.9	36
49	A Systematic Method to Predict Cloud Point Temperature and Solid Precipitation. Petroleum Science and Technology, 2003, 21, 409-424.	1.5	3
50	Heat transfer measurements and correlations for airâ€“water flow of different flow patterns in a horizontal pipe. Experimental Thermal and Fluid Science, 2002, 25, 659-676.	2.7	49
51	Robust Heat Transfer Correlation for Turbulent Gas-Liquid Flow in Vertical Pipes. Journal of Thermophysics and Heat Transfer, 2000, 14, 574-578.	1.6	49
52	The unusual behavior of local heat transfer coefficient in a circular tube with a bell-mouth inlet. Experimental Thermal and Fluid Science, 1998, 16, 187-194.	2.7	36
53	Effect of inlet geometry and heating on the fully developed friction factor in the transition region of a horizontal tube. Experimental Thermal and Fluid Science, 1997, 15, 52-64.	2.7	84
54	Flow regime map for a horizontal pipe with uniform wall heat flux and three inlet configurations. Experimental Thermal and Fluid Science, 1995, 10, 287-297.	2.7	64

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55	Heat transfer measurements and correlations in the transition region for a circular tube with three different inlet configurations. Experimental Thermal and Fluid Science, 1994, 8, 79-90.	2.7	151
56	Experimental and analytical studies of different methods for producing stratified flows. Energy, 1993, 18, 323-334.	8.8	9
57	Parametric Effects on the Substrate Temperature Profile in Oxy-Acetylene Flames. Heat Transfer Engineering, 1993, 14, 48-59.	1.9	6
58	Pressure drop measurements in the transition region for a circular tube with three different inlet configurations. Experimental Thermal and Fluid Science, 1992, 5, 129-135.	2.7	55
59	Methods for producing linear density gradients in laboratory tanks. Energy, 1990, 15, 23-34.	8.8	3
60	A HEAT TRANSFER CORRELATION FOR VISCOELASTIC TURBULENT PIPE FLOWS. Chemical Engineering Communications, 1989, 78, 167-177.	2.6	8
61	Heat transfer in the thermal entrance region for viscoelastic fluids in turbulent pipe flows. International Journal of Heat and Mass Transfer, 1988, 31, 1261-1267.	4.8	17
62	Improved forced convective heat-transfer correlations for liquids inthe near-critical region. AIAA Journal, 1986, 24, 2030-2037.	2.6	33
63	Improved free convective heat-transfer correlations in the near-critical region. AIAA Journal, 1985, 23, 1647-1649.	2.6	8
64	Selected Papers from the 1st International Symposium on Thermal-Fluid Dynamics (ISTFD2019). Heat Transfer Engineering, 0, , 1-4.	1.9	1