Qingtai Xiao

List of Publications by Year
in descending order

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28	324	933447 10	888059 17
papers	citations	h-index	g-index

28	28	28	99
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An empirical analysis on spatial correlation investigation of industrial carbon emissions using SNA-ICE model. Energy, 2021, 224, 120183.	8.8	63
2	Modeling heat transfer properties in an ORC direct contact evaporator using RBF neural network combined with EMD. Energy, 2019, 173, 306-316.	8.8	35
3	A novel approach for measuring bubbles uniformity and mixing efficiency in a direct contact heat exchanger. Energy, 2015, 93, 2313-2320.	8.8	22
4	Complexity evolution quantification of bubble pattern in a gas-liquid mixing system for direct-contact heat transfer. Applied Thermal Engineering, 2018, 138, 832-839.	6.0	20
5	Quantifying the evolution of flow boiling bubbles by statistical testing and image analysis: toward a general model. Scientific Reports, 2016, 6, 31548.	3.3	15
6	Measure of bubble non-uniformity within circular region in a direct-contact heat exchanger. International Journal of Heat and Mass Transfer, 2017, 110, 257-261.	4.8	15
7	A modified <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ discrepancy method for measuring mixing uniformity in a direct contact heat exchanger. International Journal of Heat and Mass Transfer, 2016, 97, 70-76.	4.8	14
8	Hypothesis-testing combined with image analysis to quantify evolution of bubble swarms in a direct-contact boiling heat transfer process. Applied Thermal Engineering, 2017, 113, 851-857.	6.0	14
9	Accurate estimation of mixing time in a direct contact boiling heat transfer process using statistical methods. International Communications in Heat and Mass Transfer, 2016, 75, 162-168.	5.6	13
10	Non-uniformity quantification of temperature and concentration fields by statistical measure and image analysis. Applied Thermal Engineering, 2017, 124, 1134-1141.	6.0	13
11	Extraction and evolution of bubbles attributes in a two-phase direct contact evaporator. International Journal of Heat and Mass Transfer, 2018, 124, 761-768.	4.8	11
12	New metrics for measuring multiphase mixing effects in a direct-contact heat exchanger. Applied Thermal Engineering, 2019, 147, 592-601.	6.0	11
13	Enhancement of solid-liquid mixing state quality in a stirred tank by cascade chaotic rotating speed of main shaft. Powder Technology, 2022, 397, 117020.	4.2	11
14	Assessing the effects of fluids flow on heat transfer performance in direct contact heat transfer process through EMD-LSSVM model: An experimental study. Applied Thermal Engineering, 2021, 189, 116732.	6.0	8
15	A novel hybrid model for flow image segmentation and bubble pattern extraction. Measurement: Journal of the International Measurement Confederation, 2022, 192, 110861.	5.0	8
16	Measurement of mixing time in a gas-liquid mixing system stirred by top-blown air using ECT and image analysis. Flow Measurement and Instrumentation, 2022, 84, 102143.	2.0	8
17	Novel 3-D homogeneity metrics of multiple components in gas-stirred liquid systems. Powder Technology, 2018, 336, 210-219.	4.2	7
18	Analysis of Sunspot Time Series (1749-2014) by Means of 0-1 Test for Chaos Detection. , 2015, , .		6

#	Article	IF	Citations
19	Spatial correlation effects of the economic value of green infrastructure (EVGI) on social network: Evidence from China. Journal of Cleaner Production, 2022, 338, 130620.	9.3	6
20	Direct-Contact Heat Exchanger. , 2017, , .		4
21	Synergistic effect of flow pattern evolution of dispersed and continuous phases in direct-contact heat transfer process. International Journal of Refrigeration, 2020, 112, 201-214.	3.4	4
22	Chaotic characterization of macromixing effect in a gasâ€“liquid stirring system using modified 0â€“1 test. Canadian Journal of Chemical Engineering, 2022, 100, 261-275.	1.7	3
23	Experimental investigation on the uniformity optimization and chaos characterization of gas-liquid two-phase mixing process using statistical image analysis. Advanced Powder Technology, 2021, 32, 1627-1640.	4.1	3
24	Analysis of heat transfer performance of ORC direct contact heat exchanger by GRA-VMD-LSSVM model using optimization. Korean Journal of Chemical Engineering, 2022, 39, 1729-1743.	2.7	3
25	Impact of damping amplitude on chaos detection reliability of the improved 0â€“1 test for oversampled and noisy observations. Nonlinear Dynamics, 2022, 108, 4385-4398.	5.2	3
26	Interplay of fluids mixing and heat transfer in a dual-loop ORC direct contact heat exchanger used for waste heat utilization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 2294-2305.	2.1	2
27	An Alternative Approach for Identifying Nonlinear Dynamics of the Cascade Logistic-Cubic System. Mathematics, 2022, 10, 2080.	2.2	2
28	Prediction of biodiesel iodine value from its fatty acids composition using a novel approach. The Proceedings of the International Conference on Power Engineering (ICOPE), 2021, 2021.15, 2021-0243.	0.0	0