

# Qingtai Xiao

## List of Publications by Year in descending order

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28  
papers

324  
citations

933447

10  
h-index

888059

17  
g-index

28  
all docs

28  
docs citations

28  
times ranked

99  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaotic characterization of macromixing effect in a gas-liquid stirring system using modified $\epsilon_1$ test. Canadian Journal of Chemical Engineering, 2022, 100, 261-275.	1.7	3
2	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
3	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
4	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
5	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
6	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
7	Impact of damping amplitude on chaos detection reliability of the improved $\epsilon_1$ test for oversampled and noisy observations. Nonlinear Dynamics, 2022, 108, 4385-4398.	5.2	3
8	An Alternative Approach for Identifying Nonlinear Dynamics of the Cascade Logistic-Cubic System. Mathematics, 2022, 10, 2080.	2.2	2
9	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
10	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
11	An empirical analysis on spatial correlation investigation of industrial carbon emissions using SNA-ICE model. Energy, 2021, 224, 120183.	8.8	63
12	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
13	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
14	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
15	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
16	New metrics for measuring multiphase mixing effects in a direct-contact heat exchanger. Applied Thermal Engineering, 2019, 147, 592-601.	6.0	11
17	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
18	Novel 3-D homogeneity metrics of multiple components in gas-stirred liquid systems. Powder Technology, 2018, 336, 210-219.	4.2	7

#	ARTICLE	IF	CITATIONS
19	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
20	Non-uniformity quantification of temperature and concentration fields by statistical measure and image analysis. Applied Thermal Engineering, 2017, 124, 1134-1141.	6.0	13
21	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
22	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
23	Direct-Contact Heat Exchanger. , 2017, , .		4
24	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
25	A modified 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
26	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
27	Analysis of Sunspot Time Series (1749-2014) by Means of 0-1 Test for Chaos Detection. , 2015, , .		6
28	A novel approach for measuring bubbles uniformity and mixing efficiency in a direct contact heat exchanger. Energy, 2015, 93, 2313-2320.	8.8	22