

Longxiang Zhang

List of Publications by Year in descending order

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33
papers

518
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687363

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all docs

33
docs citations

33
times ranked

574
citing authors

#	ARTICLE	IF	CITATIONS
1	Breakup of compound jets with inner droplets in a capillary flow-focusing device. <i>Physics of Fluids</i> , 2021, 33, 013304.	4.0	13
2	Lattice Boltzmann simulation of phase change and heat transfer characteristics in the multi-layer deposition. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 553-566.	3.6	6
3	Flow regimes of the immiscible liquids within a rectangular microchannel. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1544-1556.	3.4	6
4	Flow characteristics inside shear thinning xanthan gum non-Newtonian droplets moving in rectangular microchannels. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	1
5	An investigation of droplet mobility and the ultra-mild internal mechanical microenvironment in cylindrical microchannels. <i>Physics of Fluids</i> , 2021, 33, 102005.	4.0	1
6	The effect of anastomotic angle and diameter ratio on flow field in the distal end-to-side anastomosis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 377-386.	1.8	2
7	Influence of orifice geometry on atomization characteristics of pressure swirl atomizer. <i>Science Progress</i> , 2020, 103, 36850420950182.	1.9	3
8	Flow topology and its transformation inside droplets traveling in rectangular microchannels. <i>Physics of Fluids</i> , 2020, 32, .	4.0	16
9	Droplets generation under different flow rates in T-junction microchannel with a neck. <i>AIChE Journal</i> , 2020, 66, e16290.	3.6	21
10	Influence of coronary bifurcation angle on atherosclerosis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 1269-1278.	3.4	7
11	Flow characteristics inside droplets moving in a curved microchannel with rectangular section. <i>Physics of Fluids</i> , 2019, 31, .	4.0	21
12	Micro-Particle Image Velocimetry Investigation of Flow Fields of SonoVue Microbubbles Mediated by Ultrasound and Their Relationship With Delivery. <i>Frontiers in Pharmacology</i> , 2019, 10, 1651.	3.5	5
13	Trapping a moving droplet train by bubble guidance in microfluidic networks. <i>RSC Advances</i> , 2018, 8, 8787-8794.	3.6	4
14	Study of droplet flow in a T-shape microchannel with bottom wall fluctuation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 632-643.	3.4	6
15	Effects of geometry factors on microvortices evolution in confined square microcavities. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	14
16	Generation of droplets in the T-junction with a constriction microchannel. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	16
17	Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 585-594.	3.4	4
18	Concentration gradient generation methods based on microfluidic systems. <i>RSC Advances</i> , 2017, 7, 29966-29984.	3.6	150

#	ARTICLE	IF	CITATIONS
19	Study of flow behaviors of droplet merging and splitting in microchannels using Micro-PIV measurement. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	33
20	Micro-PIV investigation of the internal flow transitions inside droplets traveling in a rectangular microchannel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	36
21	Downstream pressure and elastic wall reflection of droplet flow in a T-junction microchannel. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 579-587.	3.4	4
22	Droplet coalescence at microchannel intersection chambers with different shapes. <i>Soft Matter</i> , 2016, 12, 5797-5807.	2.7	26
23	Microparticle image velocimetry ($\hat{1}/4$ PIV) study of microcavity flow at low Reynolds number. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 403-417.	2.2	30
24	The influence of channel intersection angle on droplets coalescence process. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	14
25	Numerical and Experimental Study of the Flow Field Structure Evolution in the Circular Recess of Oil Cavity. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	2
26	Influence of the Navier boundary wall slip on flow patterns in micro-scale cavity. , 2011, , .		1
27	Efficiency optimization of induction motors using genetic algorithm and Hybrid Genetic Algorithm. , 2011, , .		8
28	Efficiency improvement measures analysis of induction motors. , 2011, , .		0
29	Rheological behavior's effect on the work performance of oil film. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 254.	4.3	0
30	Influence of boundary conditions and turntable speeds on the stability of hydrostatic oil cavity. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 359.	4.3	4
31	Dynamic analysis of free-surface thin film flows driven by gravity over undulated substrate. <i>Frontiers of Mechanical Engineering in China</i> , 2010, 5, 219-225.	0.4	2
32	Dynamical analysis of droplet impact spreading on solid substrate. <i>Frontiers of Mechanical Engineering in China</i> , 2010, 5, 308-315.	0.4	2
33	Global Dynamics of a Parametrically and Externally Excited Thin Plate. <i>Nonlinear Dynamics</i> , 2001, 24, 245-268.	5.2	60