

Longxiang Zhang

List of Publications by Year in descending order

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papers

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687363

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33
all docs

33
docs citations

33
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration gradient generation methods based on microfluidic systems. RSC Advances, 2017, 7, 29966-29984.	3.6	150
2	Global Dynamics of a Parametrically and Externally Excited Thin Plate. Nonlinear Dynamics, 2001, 24, 245-268.	5.2	60
3	Micro-PIV investigation of the internal flow transitions inside droplets traveling in a rectangular microchannel. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	36
4	Study of flow behaviors of droplet merging and splitting in microchannels using Micro-PIV measurement. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	33
5	Microparticle image velocimetry (µPIV) study of microcavity flow at low Reynolds number. Microfluidics and Nanofluidics, 2015, 19, 403-417.	2.2	30
6	Droplet coalescence at microchannel intersection chambers with different shapes. Soft Matter, 2016, 12, 5797-5807.	2.7	26
7	Flow characteristics inside droplets moving in a curved microchannel with rectangular section. Physics of Fluids, 2019, 31, .	4.0	21
8	Droplets generation under different flow rates in T-junction microchannel with a neck. AIChE Journal, 2020, 66, e16290.	3.6	21
9	Generation of droplets in the T-junction with a constriction microchannel. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	16
10	Flow topology and its transformation inside droplets traveling in rectangular microchannels. Physics of Fluids, 2020, 32, .	4.0	16
11	The influence of channel intersection angle on droplets coalescence process. Experiments in Fluids, 2015, 56, 1.	2.4	14
12	Effects of geometry factors on microvortices evolution in confined square microcavities. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	14
13	Breakup of compound jets with inner droplets in a capillary flow-focusing device. Physics of Fluids, 2021, 33, 013304.	4.0	13
14	Efficiency optimization of induction motors using genetic algorithm and Hybrid Genetic Algorithm. , 2011, , .		8
15	Influence of coronary bifurcation angle on atherosclerosis. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 1269-1278.	3.4	7
16	Study of droplet flow in a T-shape microchannel with bottom wall fluctuation. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 632-643.	3.4	6
17	Lattice Boltzmann simulation of phase change and heat transfer characteristics in the multi-layer deposition. Applied Mathematics and Mechanics (English Edition), 2021, 42, 553-566.	3.6	6
18	Flow regimes of the immiscible liquids within a rectangular microchannel. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1544-1556.	3.4	6

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19	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
20	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
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	Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 585-594.	3.4	4
23	Trapping a moving droplet train by bubble guidance in microfluidic networks. <i>RSC Advances</i> , 2018, 8, 8787-8794.	3.6	4
24	Influence of orifice geometry on atomization characteristics of pressure swirl atomizer. <i>Science Progress</i> , 2020, 103, 36850420950182.	1.9	3
25	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
26	Dynamical analysis of droplet impact spreading on solid substrate. <i>Frontiers of Mechanical Engineering in China</i> , 2010, 5, 308-315.	0.4	2
27	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
28	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
29	Influence of the Navier boundary wall slip on flow patterns in micro-scale cavity. , 2011, , .		1
30	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
31	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
32	Efficiency improvement measures analysis of induction motors. , 2011, , .		0
33	Rheological behaviorâ€™s effect on the work performance of oil film. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 254.	4.3	0