

Feng Shen

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

413
citations

840119

11
h-index

752256

20
g-index

40
all docs

40
docs citations

40
times ranked

463
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of flow behaviors on single-cell manipulation and shear stress reduction in microfluidic chips using computational fluid dynamics simulations. <i>Biomicrofluidics</i> , 2014, 8, 014109.	1.2	70
2	Rapid and Accurate Diagnosis of the Respiratory Disease Pertussis on a Point-of-Care Biochip. <i>EClinicalMedicine</i> , 2019, 8, 72-77.	3.2	51
3	Advances in Micro-Droplets Coalescence Using Microfluidics. <i>Chinese Journal of Analytical Chemistry</i> , 2015, 43, 1942-1954.	0.9	44
4	Study of flow behaviors of droplet merging and splitting in microchannels using Micro-PIV measurement. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	33
5	Microparticle image velocimetry ($\frac{1}{4}$ PIV) study of microcavity flow at low Reynolds number. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 403-417.	1.0	30
6	Experimental study of single-particle trapping mechanisms into microcavities using microfluidics. <i>Physics of Fluids</i> , 2019, 31, .	1.6	22
7	Effect of Pocket Geometry on the Performance of a Circular Thrust Pad Hydrostatic Bearing in Machine Tools. <i>Tribology Transactions</i> , 2014, 57, 700-714.	1.1	21
8	Single-particle trapping, orbiting, and rotating in a microcavity using microfluidics. <i>Applied Physics Express</i> , 2017, 10, 097301.	1.1	17
9	The influence of channel intersection angle on droplets coalescence process. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	14
10	Effects of geometry factors on microvortices evolution in confined square microcavities. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	14
11	Recirculation Flow and Pressure Distributions in a Rayleigh Step Bearing. <i>Advances in Tribology</i> , 2018, 2018, 1-8.	2.1	12
12	An Easy Method for Pressure Measurement in Microchannels Using Trapped Air Compression in a One-End-Sealed Capillary. <i>Micromachines</i> , 2020, 11, 914.	1.4	10
13	Vortices evolution in confined laminar radial flow between parallel discs. <i>Chemical Engineering Science</i> , 2014, 116, 834-842.	1.9	9
14	Evolution of single-particle recirculating orbits within a hydrodynamic microvortex. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 085018.	1.5	9
15	Particle recirculating orbits within microvortices using microfluidics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 025401.	1.3	9
16	Effects of geometric configuration on droplet generation in Y-junctions and anti-Y-junctions microchannels. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 741-749.	1.5	8
17	Influence of coronary bifurcation angle on atherosclerosis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 1269-1278.	1.5	7
18	Round cavity-based vortex sorting of particles with enhanced holding capacity. <i>Physics of Fluids</i> , 2021, 33, 082002.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Pressure measurement methods in microchannels: advances and applications. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	6
20	Influence of boundary conditions and turntable speeds on the stability of hydrostatic oil cavity. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 359.	2.5	4
21	Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 585-594.	1.5	4
22	Experimental study of transient behaviors of start-up flow in long microcavities. <i>Chemical Engineering Science</i> , 2020, 219, 115591.	1.9	3
23	Particle orbiting motion and deviations from streamlines in a microvortex. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
24	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.	0.6	2
25	Influence of the Navier boundary wall slip on flow patterns in micro-scale cavity. , 2011, , .		1
26	Effects of Geometry on the Liquid Flow in Microchannel. , 2011, , .		1
27	Vortices evolution in round pockets of modern machine tools. <i>Lubrication Science</i> , 2019, 31, 299-310.	0.9	1
28	Transient flow patterns of start-up flow in round microcavities. <i>Microfluidics and Nanofluidics</i> , 2022, 26, .	1.0	1
29	Rheological behavior's effect on the work performance of oil film. <i>Frontiers of Mechanical Engineering</i> , 2011, 6, 254.	2.5	0
30	Collar Length on the Performance of a Nozzle Using Fluidic Counterflow for Thrust Vectoring. <i>Applied Mechanics and Materials</i> , 2013, 341-342, 524-527.	0.2	0
31	Three-dimensional pressure- and shear-driven flow phenomena in a circular recess of a hydrostatic rotary table. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 989-1004.	1.1	0
32	Experimental Study of Viscous Droplet Impacting on Horizontal Moving Films. <i>Applied Mechanics and Materials</i> , 0, 574, 298-302.	0.2	0
33	Review on the Micro-particle Image Velocimetry Technique and Applications. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2012, 48, 155.	0.7	0
34	10.1063/5.0074939.1., 2022, , .		0