

# Feng Shen

## List of Publications by Year in descending order

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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	10.1063/5.0074939.1., 2022, , .		0
2	Particle orbiting motion and deviations from streamlines in a microvortex. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
3	Transient flow patterns of start-up flow in round microcavities. <i>Microfluidics and Nanofluidics</i> , 2022, 26, .	1.0	1
4	Pressure measurement methods in microchannels: advances and applications. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	1.0	6
5	Round cavity-based vortex sorting of particles with enhanced holding capacity. <i>Physics of Fluids</i> , 2021, 33, 082002.	1.6	7
6	Particle recirculating orbits within microvortices using microfluidics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 025401.	1.3	9
7	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
8	Experimental study of transient behaviors of start-up flow in long microcavities. <i>Chemical Engineering Science</i> , 2020, 219, 115591.	1.9	3
9	Influence of coronary bifurcation angle on atherosclerosis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 1269-1278.	1.5	7
10	Vortices evolution in round pockets of modern machine tools. <i>Lubrication Science</i> , 2019, 31, 299-310.	0.9	1
11	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
12	Experimental study of single-particle trapping mechanisms into microcavities using microfluidics. <i>Physics of Fluids</i> , 2019, 31, .	1.6	22
13	Evolution of single-particle recirculating orbits within a hydrodynamic microvortex. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 085018.	1.5	9
14	Effects of geometry factors on microvortices evolution in confined square microcavities. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	14
15	Recirculation Flow and Pressure Distributions in a Rayleigh Step Bearing. <i>Advances in Tribology</i> , 2018, 2018, 1-8.	2.1	12
16	Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 585-594.	1.5	4
17	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
18	Single-particle trapping, orbiting, and rotating in a microcavity using microfluidics. <i>Applied Physics Express</i> , 2017, 10, 097301.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Advances in Micro-Droplets Coalescence Using Microfluidics. Chinese Journal of Analytical Chemistry, 2015, 43, 1942-1954.	0.9	44
20	Microparticle image velocimetry (µPIV) study of microcavity flow at low Reynolds number. Microfluidics and Nanofluidics, 2015, 19, 403-417.	1.0	30
21	The influence of channel intersection angle on droplets coalescence process. Experiments in Fluids, 2015, 56, 1.	1.1	14
22	Effects of geometric configuration on droplet generation in Y-junctions and anti-Y-junctions microchannels. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 741-749.	1.5	8
23	Three-dimensional pressure- and shear-driven flow phenomena in a circular recess of a hydrostatic rotary table. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 989-1004.	1.1	0
24	Study of flow behaviors on single-cell manipulation and shear stress reduction in microfluidic chips using computational fluid dynamics simulations. Biomicrofluidics, 2014, 8, 014109.	1.2	70
25	Numerical and Experimental Study of the Flow Field Structure Evolution in the Circular Recess of Oil Cavity. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	2
26	Effect of Pocket Geometry on the Performance of a Circular Thrust Pad Hydrostatic Bearing in Machine Tools. Tribology Transactions, 2014, 57, 700-714.	1.1	21
27	Vortices evolution in confined laminar radial flow between parallel discs. Chemical Engineering Science, 2014, 116, 834-842.	1.9	9
28	Collar Length on the Performance of a Nozzle Using Fluidic Counterflow for Thrust Vectoring. Applied Mechanics and Materials, 2013, 341-342, 524-527.	0.2	0
29	Review on the Micro-particle Image Velocimetry Technique and Applications. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 155.	0.7	0
30	Influence of the Navier boundary wall slip on flow patterns in micro-scale cavity. , 2011, , .		1
31	Effects of Geometry on the Liquid Flow in Microchannel. , 2011, , .		1
32	Rheological behavior's effect on the work performance of oil film. Frontiers of Mechanical Engineering, 2011, 6, 254.	2.5	0
33	Influence of boundary conditions and turntable speeds on the stability of hydrostatic oil cavity. Frontiers of Mechanical Engineering, 2011, 6, 359.	2.5	4
34	Experimental Study of Viscous Droplet Impacting on Horizontal Moving Films. Applied Mechanics and Materials, 0, 574, 298-302.	0.2	0