

Zhaomiao Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4027710/publications.pdf>

Version: 2024-02-01

66
papers

842
citations

567281

15
h-index

552781

26
g-index

78
all docs

78
docs citations

78
times ranked

726
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, . | 3.3 | 3 |
| 3 | Perturbations of liquid jets with an entering sphere in flow focusing. <i>International Journal of Multiphase Flow</i> , 2022, 147, 103914. | 3.4 | 1 |
| 4 | Study on the dynamic characteristics of stable formation of single droplet in gas-liquid co-flow device. <i>Journal of Physics: Conference Series</i> , 2022, 2230, 012005. | 0.4 | 0 |
| 5 | Breakup dynamics of emulsion droplet and effects of inner interface. <i>Journal of Food Engineering</i> , 2022, 330, 111088. | 5.2 | 5 |
| 6 | Dynamics of droplet breakup in unilateral Y-junctions with different angles. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 112, 46-57. | 5.8 | 10 |
| 7 | Enhanced droplet formation in a T-junction microchannel using electric field: A lattice Boltzmann study. <i>Physics of Fluids</i> , 2022, 34, . | 4.0 | 4 |
| 8 | Experimental and theoretical studies on neck thinning dynamics of droplets in cross junction microchannels. <i>Experimental Thermal and Fluid Science</i> , 2022, 139, 110739. | 2.7 | 10 |
| 9 | Transient flow patterns of start-up flow in round microcavities. <i>Microfluidics and Nanofluidics</i> , 2022, 26, . | 2.2 | 1 |
| 10 | Breakup of compound jets with inner droplets in a capillary flow-focusing device. <i>Physics of Fluids</i> , 2021, 33, 013304. | 4.0 | 13 |
| 11 | Pressure measurement methods in microchannels: advances and applications. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1. | 2.2 | 6 |
| 12 | Droplet behavior and its effects on flow characteristics in T-junction microchannels. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 11 |
| 13 | Round cavity-based vortex sorting of particles with enhanced holding capacity. <i>Physics of Fluids</i> , 2021, 33, 082002. | 4.0 | 7 |
| 14 | Flow regimes of the immiscible liquids within a rectangular microchannel. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1544-1556. | 3.4 | 6 |
| 15 | 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 |
| 16 | Impact of flow feedback on bubble generation in T-junction microchannels under pressure-driven condition. <i>Chemical Engineering Science</i> , 2021, 246, 117010. | 3.8 | 11 |
| 17 | Particle recirculating orbits within microvortices using microfluidics. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 025401. | 2.8 | 9 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Breakup regimes of double emulsion droplets in a microfluidic Y-junction. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 17 |
| 20 | Acoustic particle migration and focusing in a tilted acoustic field. <i>Physics of Fluids</i> , 2021, 33, 122006. | 4.0 | 13 |
| 21 | 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 |
| 22 | Role of periodic inner dripping on compound jets in a capillary device. <i>International Journal of Multiphase Flow</i> , 2020, 123, 103180. | 3.4 | 6 |
| 23 | Influence of orifice geometry on atomization characteristics of pressure swirl atomizer. <i>Science Progress</i> , 2020, 103, 36850420950182. | 1.9 | 3 |
| 24 | Flow topology and its transformation inside droplets traveling in rectangular microchannels. <i>Physics of Fluids</i> , 2020, 32, . | 4.0 | 16 |
| 25 | Droplets generation under different flow rates in T-junction microchannel with a neck. <i>AIChE Journal</i> , 2020, 66, e16290. | 3.6 | 21 |
| 26 | Experimental study of transient behaviors of start-up flow in long microcavities. <i>Chemical Engineering Science</i> , 2020, 219, 115591. | 3.8 | 3 |
| 27 | Influence of coronary bifurcation angle on atherosclerosis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 1269-1278. | 3.4 | 7 |
| 28 | Generation of single/double Janus emulsion droplets in co-flowing microtube. <i>International Journal of Multiphase Flow</i> , 2019, 113, 199-207. | 3.4 | 25 |
| 29 | Experimental study of single-particle trapping mechanisms into microcavities using microfluidics. <i>Physics of Fluids</i> , 2019, 31, . | 4.0 | 22 |
| 30 | Flow characteristics inside droplets moving in a curved microchannel with rectangular section. <i>Physics of Fluids</i> , 2019, 31, . | 4.0 | 21 |
| 31 | Collision characteristics of droplet pairs with the presence of arriving distance differences. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 225-232. | 5.8 | 2 |
| 32 | Breakup dynamics of droplets in an asymmetric bifurcation by $\hat{1}/4$ PIV and theoretical investigations. <i>Chemical Engineering Science</i> , 2019, 197, 258-268. | 3.8 | 28 |
| 33 | 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 |
| 34 | Trapping a moving droplet train by bubble guidance in microfluidic networks. <i>RSC Advances</i> , 2018, 8, 8787-8794. | 3.6 | 4 |
| 35 | Evolution of single-particle recirculating orbits within a hydrodynamic microvortex. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 085018. | 2.6 | 9 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Effects of geometry factors on microvortices evolution in confined square microcavities. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1. | 2.2 | 14 |
| 38 | Generation of droplets in the T-junction with a constriction microchannel. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1. | 2.2 | 16 |
| 39 | Droplet breakup in an asymmetric bifurcation with two angled branches. <i>Chemical Engineering Science</i> , 2018, 188, 11-17. | 3.8 | 42 |
| 40 | Recirculation Flow and Pressure Distributions in a Rayleigh Step Bearing. <i>Advances in Tribology</i> , 2018, 2018, 1-8. | 2.1 | 12 |
| 41 | Influence of Slip Boundary Condition on Oil Film Flow Between Piston and Cylinder. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018, 54, 152. | 0.5 | 0 |
| 42 | Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 585-594. | 3.4 | 4 |
| 43 | Concentration gradient generation methods based on microfluidic systems. <i>RSC Advances</i> , 2017, 7, 29966-29984. | 3.6 | 150 |
| 44 | 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 |
| 45 | 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 |
| 46 | Single-particle trapping, orbiting, and rotating in a microcavity using microfluidics. <i>Applied Physics Express</i> , 2017, 10, 097301. | 2.4 | 17 |
| 47 | 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 |
| 48 | Droplet coalescence at microchannel intersection chambers with different shapes. <i>Soft Matter</i> , 2016, 12, 5797-5807. | 2.7 | 26 |
| 49 | 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 |
| 50 | The influence of channel intersection angle on droplets coalescence process. <i>Experiments in Fluids</i> , 2015, 56, 1. | 2.4 | 14 |
| 51 | 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 |
| 52 | A soft microchannel decreases polydispersity of droplet generation. <i>Lab on A Chip</i> , 2014, 14, 4029-4034. | 6.0 | 41 |
| 53 | Numerical Analysis on Two-phase Flow Characteristics at Convection Microfluidic Y-junctions. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2014, 50, 189. | 0.5 | 1 |
| 54 | Study on Performance and Wall Slip Behavior of Visco-plastic Hydrodynamic Lubrication in Convergent Wedge. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2014, 50, 91. | 0.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Effects of Geometry on Liquid Flow and Heat Transfer in Microchannels. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 139. | 0.5 | 1 |
| 56 | Influence of the Navier boundary wall slip on flow patterns in micro-scale cavity. , 2011, , . | | 1 |
| 57 | Efficiency optimization of induction motors using genetic algorithm and Hybrid Genetic Algorithm. , 2011, , . | | 8 |
| 58 | Efficiency improvement measures analysis of induction motors. , 2011, , . | | 0 |
| 59 | Effects of Geometry on the Liquid Flow in Microchannel. , 2011, , . | | 1 |
| 60 | Rheological behavior's effect on the work performance of oil film. Frontiers of Mechanical Engineering, 2011, 6, 254. | 4.3 | 0 |
| 61 | Influence of boundary conditions and turntable speeds on the stability of hydrostatic oil cavity. Frontiers of Mechanical Engineering, 2011, 6, 359. | 4.3 | 4 |
| 62 | Numerical Analysis of Oil Film Flow in Micro Gap with Navier Slip Boundary Conditions. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 104. | 0.5 | 4 |
| 63 | Dynamic analysis of free-surface thin film flows driven by gravity over undulated substrate. Frontiers of Mechanical Engineering in China, 2010, 5, 219-225. | 0.4 | 2 |
| 64 | Dynamical analysis of droplet impact spreading on solid substrate. Frontiers of Mechanical Engineering in China, 2010, 5, 308-315. | 0.4 | 2 |
| 65 | Global Dynamics of a Parametrically and Externally Excited Thin Plate. Nonlinear Dynamics, 2001, 24, 245-268. | 5.2 | 60 |
| 66 | Thinning dynamics of the liquid thread at different stages in a rectangular cross junction. AICHE Journal, 0, , . | 3.6 | 5 |