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List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

740
citations

516710

16
h-index

552781

26
g-index

41
all docs

41
docs citations

41
times ranked

673
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulation of electrospray in the cone-jet mode. <i>Physical Review E</i> , 2012, 86, 026305.	2.1	75
2	Global and local instability of flow focusing: The influence of the geometry. <i>Physics of Fluids</i> , 2010, 22, .	4.0	72
3	Measurement of relaxation times in extensional flow of weakly viscoelastic polymer solutions. <i>Rheologica Acta</i> , 2017, 56, 11-20.	2.4	57
4	Influence of the Surface Viscosity on the Breakup of a Surfactant-Laden Drop. <i>Physical Review Letters</i> , 2017, 118, 024501.	7.8	49
5	Generation of micro-sized PDMS particles by a flow focusing technique for biomicrofluidics applications. <i>Biomicrofluidics</i> , 2016, 10, 014122.	2.4	34
6	Flexible PDMS microparticles to mimic RBCs in blood particulate analogue fluids. <i>Mechanics Research Communications</i> , 2019, 100, 103399.	1.8	29
7	Exploring the precision of backlight optical imaging in microfluidics close to the diffraction limit. Measurement: <i>Journal of the International Measurement Confederation</i> , 2011, 44, 1300-1311.	5.0	27
8	A new flow focusing technique to produce very thin jets. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 065009.	2.6	26
9	Suppressing prompt splash with polymer additives. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	25
10	Numerical simulation of a liquid bridge in a coaxial gas flow. <i>Physics of Fluids</i> , 2011, 23, .	4.0	24
11	Micrometer glass nozzles for flow focusing. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075035.	2.6	22
12	Dynamics of an axisymmetric liquid bridge close to the minimum-volume stability limit. <i>Physical Review E</i> , 2014, 90, 013015.	2.1	22
13	A novel technique to produce metallic microdrops for additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 1395-1402.	3.0	22
14	Blood Particulate Analogue Fluids: A Review. <i>Materials</i> , 2021, 14, 2451.	2.9	20
15	On the precision of optical imaging to study free surface dynamics at high frame rates. <i>Experiments in Fluids</i> , 2009, 47, 251-261.	2.4	19
16	Damping of linear oscillations in axisymmetric liquid bridges. <i>Physics of Fluids</i> , 2009, 21, .	4.0	17
17	On the validity of a universal solution for viscous capillary jets. <i>Physics of Fluids</i> , 2011, 23, .	4.0	15
18	Effects of surface-active impurities on the liquid bridge dynamics. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	15

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19	Fast, flexible and low-cost multiphase blood analogue for biomedical and energy applications. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	14
20	A novel technique for producing metallic microjets and microdrops. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 101-111.	2.2	13
21	The production of viscoelastic capillary jets with gaseous flow focusing. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 229, 8-15.	2.4	13
22	Shrinkage and colour in the production of micro-sized PDMS particles for microfluidic applications. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 075002.	2.6	13
23	Production of microbubbles from axisymmetric flow focusing in the jetting regime for moderate Reynolds numbers. <i>Physical Review E</i> , 2014, 89, 063012.	2.1	12
24	Gaseous flow focusing for spinning micro and nanofibers. <i>Polymer</i> , 2019, 178, 121623.	3.8	12
25	A simple emulsification technique for the production of micro-sized flexible powder of polydimethylsiloxane (PDMS). <i>Powder Technology</i> , 2020, 366, 610-616.	4.2	12
26	Smooth printing of viscoelastic microfilms with a flow focusing ejector. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 249, 1-7.	2.4	10
27	Complex behavior very close to the pinching of a liquid free surface. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	10
28	Stabilization of axisymmetric liquid bridges through vibration-induced pressure fields. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 409-417.	9.4	9
29	Fire-shaped cylindrical glass micronozzles to measure cell deformability. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 105001.	2.6	9
30	Sub-micrometer precision of optical imaging to locate the free surface of a micrometer fluid shape. <i>Journal of Colloid and Interface Science</i> , 2009, 339, 271-274.	9.4	8
31	The effects of ambient impurities on the surface tension. <i>EPJ Web of Conferences</i> , 2016, 114, 02098.	0.3	8
32	Experimental Analysis of the Extensional Flow of Very Weakly Viscoelastic Polymer Solutions. <i>Materials</i> , 2020, 13, 192.	2.9	7
33	Breakup of an electrified viscoelastic liquid bridge. <i>Physical Review E</i> , 2020, 102, 033103.	2.1	6
34	Unexpected stability of micrometer weakly viscoelastic jets. <i>Physics of Fluids</i> , 2022, 34, .	4.0	4
35	Viscoelastic transition in transonic flow focusing. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	3
36	An experimental technique to produce micrometer waves on a cylindrical sub-millimeter free surface. <i>Measurement Science and Technology</i> , 2014, 25, 075303.	2.6	2

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37	Magnetic PDMS Microparticles for Biomedical and Energy Applications. Lecture Notes in Computational Vision and Biomechanics, 2019, , 578-584.	0.5	2
38	An experimental setup for the study of the steady air flow in a diesel engine chamber. EPJ Web of Conferences, 2012, 25, 01014.	0.3	1
39	Electrical Conductivity of a Stretching Viscoelastic Filament. Materials, 2021, 14, 1294.	2.9	1
40	Fire-Shaped Nozzles to Produce a Stress Peak for Deformability Studies. Polymers, 2022, 14, 2784.	4.5	1
41	An experimental technique to measure the capillary waves in electrified microjets. EPJ Web of Conferences, 2012, 25, 01097.	0.3	0