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List of Publications by Year
in descending order

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48 papers	5,610 citations	270111 25 h-index	252626 46 g-index
49 all docs	49 docs citations	49 times ranked	5727 citing authors

#	Article	IF	Citations
1	Development and characterization of a â€œstore and createâ€•microfluidic device to determine the heterogeneous freezing properties of ice nucleating particles. Aerosol Science and Technology, 2020, 54, 79-93.	1.5	18
2	Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interfaces. Colloids and Surfaces B: Biointerfaces, 2018, 164, 98-106.	2.5	11
3	Microfluidic Droplet-Based Tool To Determine Phase Behavior of a Fluid System with High Composition Resolution. Journal of Physical Chemistry B, 2018, 122, 4067-4076.	1.2	13
4	Effect of surfactant tail length and ionic strength on the interfacial properties of nanoparticleâ€“surfactant complexes. Soft Matter, 2018, 14, 112-123.	1.2	44
5	Droplet-based characterization of surfactant efficacy in colloidal stabilization of carbon black in nonpolar solvents. Journal of Colloid and Interface Science, 2017, 493, 265-274.	5.0	8
6	Formation of a Rigid Hydrophobin Film and Disruption by an Anionic Surfactant at an Air/Water Interface. Langmuir, 2016, 32, 5542-5551.	1.6	20
7	Insoluble layer deposition and dilatational rheology at a microscale spherical cap interface. Soft Matter, 2016, 12, 7038-7055.	1.2	18
8	Droplets and Bubbles in Microfluidic Devices. Annual Review of Fluid Mechanics, 2016, 48, 285-309.	10.8	394
9	Stability of a compound sessile drop at the axisymmetric configuration. Journal of Colloid and Interface Science, 2016, 462, 88-99.	5.0	15
10	Gravity driven current during the coalescence of two sessile drops. Physics of Fluids, 2015, 27, .	1.6	12
11	Sequential Adsorption of an Irreversibly Adsorbed Nonionic Surfactant and an Anionic Surfactant at an Oil/Aqueous Interface. Langmuir, 2015, 31, 4063-4071.	1.6	35
12	Comparative microfluidic screening of amino acid salt solutions for post-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2015, 43, 189-197.	2.3	11
13	The importance of experimental design on measurement of dynamic interfacial tension and interfacial rheology in diffusion-limited surfactant systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 467, 135-142.	2.3	46
14	Regular perturbation analysis of small amplitude oscillatory dilatation of an interface in a capillary pressure tensiometer. Journal of Rheology, 2015, 59, 85-117.	1.3	37
15	Controlling thread formation during tipstreaming through an active feedback control loop. Lab on A Chip, 2013, 13, 4534.	3.1	22
16	Numerical simulation of droplet formation in a microchannel device. International Journal of Multiphysics, 2013, 7, 271-286.	0.3	2
17	Formation and ordering of topological defect arrays produced by dilatational strain and shear flow in smectic-Aliquid crystals. Physical Review E, 2012, 85, 011701.	0.8	17
18	Predicting conditions for microscale surfactant mediated tipstreaming. Physics of Fluids, 2012, 24, .	1.6	28

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19	A criterion to assess the impact of confined volumes on surfactant transport to liquidâ€“fluid interfaces. Soft Matter, 2012, 8, 8917.	1.2	26
20	Probing timescales for colloidal particle adsorption using slug bubbles in rectangular microchannels. Soft Matter, 2012, 8, 10759.	1.2	40
21	Interaction of toroidal focal conic defects with shear flow. Soft Matter, 2012, 8, 6698.	1.2	5
22	Interfacial Dynamics and Rheology of Polymer-Grafted Nanoparticles at Airâ€“Water and Xyleneâ€“Water Interfaces. Langmuir, 2012, 28, 8052-8063.	1.6	101
23	Tuning bubbly structures in microchannels. Biomicrofluidics, 2012, 6, 22004-2200418.	1.2	21
24	Using bulk convection in a microtensiometer to approach kinetic-limited surfactant dynamics at fluidâ€“fluid interfaces. Journal of Colloid and Interface Science, 2012, 372, 183-191.	5.0	59
25	Two-Phase Flow in Porous Media: Predicting Its Dependence on Capillary Number and Viscosity Ratio. Transport in Porous Media, 2011, 86, 243-259.	1.2	15
26	Competition Between Viscoelasticity and Surfactant Dynamics in Flow Focusing Microfluidics. Macromolecular Materials and Engineering, 2011, 296, 203-213.	1.7	46
27	The effect of alkane tail length of C E8 surfactants on transport to the silicone oilâ€“water interface. Journal of Colloid and Interface Science, 2011, 355, 231-236.	5.0	27
28	Diffusion-limited adsorption to a spherical geometry: The impact of curvature and competitive time scales. Physical Review E, 2010, 82, 011604.	0.8	83
29	A Microtensiometer To Probe the Effect of Radius of Curvature on Surfactant Transport to a Spherical Interface. Langmuir, 2010, 26, 13310-13319.	1.6	103
30	Modeling and Simulation of a Rollerball Microfluidic Device. , 2009, , .		1
31	A non-gradient based algorithm for the determination of surface tension from a pendant drop: Application to low Bond number drop shapes. Journal of Colloid and Interface Science, 2009, 333, 557-562.	5.0	64
32	Role of geometry and fluid properties in droplet and thread formation processes in planar flow focusing. Physics of Fluids, 2009, 21, .	1.6	193
33	Passive breakup of viscoelastic droplets and filament self-thinning at a microfluidic T-junction. Journal of Rheology, 2009, 53, 663-683.	1.3	28
34	Highly uniform micro-cavity arrays in flexible elastomer film. Soft Matter, 2009, 5, 743.	1.2	21
35	Effect of a controlled pre-deformation history on extensional viscosity of dilute polymer solutions. Rheologica Acta, 2008, 47, 841-859.	1.1	21
36	Experimental observations of the squeezing-to-dripping transition in T-shaped microfluidic junctions. Physical Review E, 2008, 78, 036317.	0.8	291

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37	Impact of Viscosity Ratio on the Dynamics of Droplet Breakup in a Microfluidic Flow Focusing Device. AIP Conference Proceedings, 2008, , .	0.3	2
38	Microfluidic methods for generating continuous droplet streams. Journal Physics D: Applied Physics, 2007, 40, R319-R336.	1.3	677
39	Role of Surface Anchoring and Geometric Confinement on Focal Conic Textures in Smectic-A Liquid Crystals. Langmuir, 2006, 22, 9986-9993.	1.6	59
40	Microscale tipstreaming in a microfluidic flow focusing device. Physics of Fluids, 2006, 18, 121512.	1.6	322
41	Droplet Breakup in Shear and Elongation Dominated Flows in Microfluidic Devices. , 2005, , 669.		0
42	A Microfluidic Tensiometer. , 2004, , 431.		0
43	Formation of dispersions using â€œflow focusingâ€•in microchannels. Applied Physics Letters, 2003, 82, 364-366.	1.5	1,998
44	Elasto-capillary thinning and breakup of model elastic liquids. Journal of Rheology, 2001, 45, 115-138.	1.3	443
45	An interlaboratory comparison of measurements from filament-stretching rheometers using common test fluids. Journal of Rheology, 2001, 45, 83-114.	1.3	142
46	A compact dual-crystal modulated birefringence-measurement system for microgravity applications. Measurement Science and Technology, 1999, 10, 946-955.	1.4	26
47	On controlling the kinematics of a filament stretching rheometer using a real-time active control mechanism. Journal of Non-Newtonian Fluid Mechanics, 1999, 87, 307-335.	1.0	38
48	Characterization of Ferromagnetic Nanoparticles Produced by A Carbon Arc. Materials Research Society Symposia Proceedings, 1994, 359, 35.	0.1	3