

Shelley L Anna

List of Publications by Year in descending order

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48
papers

5,610
citations

236925

25
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

4993
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of dispersions using μ -flow focusing in microchannels. Applied Physics Letters, 2003, 82, 364-366.	3.3	1,998
2	Microfluidic methods for generating continuous droplet streams. Journal Physics D: Applied Physics, 2007, 40, R319-R336.	2.8	677
3	Elasto-capillary thinning and breakup of model elastic liquids. Journal of Rheology, 2001, 45, 115-138.	2.6	443
4	Droplets and Bubbles in Microfluidic Devices. Annual Review of Fluid Mechanics, 2016, 48, 285-309.	25.0	394
5	Microscale tipstreaming in a microfluidic flow focusing device. Physics of Fluids, 2006, 18, 121512.	4.0	322
6	Experimental observations of the squeezing-to-dripping transition in T-shaped microfluidic junctions. Physical Review E, 2008, 78, 036317.	2.1	291
7	Role of geometry and fluid properties in droplet and thread formation processes in planar flow focusing. Physics of Fluids, 2009, 21, .	4.0	193
8	An interlaboratory comparison of measurements from filament-stretching rheometers using common test fluids. Journal of Rheology, 2001, 45, 83-114.	2.6	142
9	A Microtensiometer To Probe the Effect of Radius of Curvature on Surfactant Transport to a Spherical Interface. Langmuir, 2010, 26, 13310-13319.	3.5	103
10	Interfacial Dynamics and Rheology of Polymer-Grafted Nanoparticles at Air/Water and Xylene/Water Interfaces. Langmuir, 2012, 28, 8052-8063.	3.5	101
11	Diffusion-limited adsorption to a spherical geometry: The impact of curvature and competitive time scales. Physical Review E, 2010, 82, 011604.	2.1	83
12	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.	9.4	64
13	Role of Surface Anchoring and Geometric Confinement on Focal Conic Textures in Smectic-A Liquid Crystals. Langmuir, 2006, 22, 9986-9993.	3.5	59
14	Using bulk convection in a microtensiometer to approach kinetic-limited surfactant dynamics at fluid/fluid interfaces. Journal of Colloid and Interface Science, 2012, 372, 183-191.	9.4	59
15	Competition Between Viscoelasticity and Surfactant Dynamics in Flow Focusing Microfluidics. Macromolecular Materials and Engineering, 2011, 296, 203-213.	3.6	46
16	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.	4.7	46
17	Effect of surfactant tail length and ionic strength on the interfacial properties of nanoparticle/surfactant complexes. Soft Matter, 2018, 14, 112-123.	2.7	44
18	Probing timescales for colloidal particle adsorption using slug bubbles in rectangular microchannels. Soft Matter, 2012, 8, 10759.	2.7	40

#	ARTICLE	IF	CITATIONS
19	On controlling the kinematics of a filament stretching rheometer using a real-time active control mechanism. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999, 87, 307-335.	2.4	38
20	Regular perturbation analysis of small amplitude oscillatory dilatation of an interface in a capillary pressure tensiometer. <i>Journal of Rheology</i> , 2015, 59, 85-117.	2.6	37
21	Sequential Adsorption of an Irreversibly Adsorbed Nonionic Surfactant and an Anionic Surfactant at an Oil/Aqueous Interface. <i>Langmuir</i> , 2015, 31, 4063-4071.	3.5	35
22	Passive breakup of viscoelastic droplets and filament self-thinning at a microfluidic T-junction. <i>Journal of Rheology</i> , 2009, 53, 663-683.	2.6	28
23	Predicting conditions for microscale surfactant mediated tipstreaming. <i>Physics of Fluids</i> , 2012, 24, .	4.0	28
24	The effect of alkane tail length of C E8 surfactants on transport to the silicone oil/water interface. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 231-236.	9.4	27
25	A compact dual-crystal modulated birefringence-measurement system for microgravity applications. <i>Measurement Science and Technology</i> , 1999, 10, 946-955.	2.6	26
26	A criterion to assess the impact of confined volumes on surfactant transport to liquid/liquid interfaces. <i>Soft Matter</i> , 2012, 8, 8917.	2.7	26
27	Controlling thread formation during tipstreaming through an active feedback control loop. <i>Lab on A Chip</i> , 2013, 13, 4534.	6.0	22
28	Effect of a controlled pre-deformation history on extensional viscosity of dilute polymer solutions. <i>Rheologica Acta</i> , 2008, 47, 841-859.	2.4	21
29	Highly uniform micro-cavity arrays in flexible elastomer film. <i>Soft Matter</i> , 2009, 5, 743.	2.7	21
30	Tuning bubbly structures in microchannels. <i>Biomicrofluidics</i> , 2012, 6, 22004-2200418.	2.4	21
31	Formation of a Rigid Hydrophobin Film and Disruption by an Anionic Surfactant at an Air/Water Interface. <i>Langmuir</i> , 2016, 32, 5542-5551.	3.5	20
32	Insoluble layer deposition and dilatational rheology at a microscale spherical cap interface. <i>Soft Matter</i> , 2016, 12, 7038-7055.	2.7	18
33	Development and characterization of a microfluidic device to determine the heterogeneous freezing properties of ice nucleating particles. <i>Aerosol Science and Technology</i> , 2020, 54, 79-93.	3.1	18
34	Formation and ordering of topological defect arrays produced by dilatational strain and shear flow in smectic liquid crystals. <i>Physical Review E</i> , 2012, 85, 011701.	2.1	17
35	Two-Phase Flow in Porous Media: Predicting Its Dependence on Capillary Number and Viscosity Ratio. <i>Transport in Porous Media</i> , 2011, 86, 243-259.	2.6	15
36	Stability of a compound sessile drop at the axisymmetric configuration. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 88-99.	9.4	15

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37	Microfluidic Droplet-Based Tool To Determine Phase Behavior of a Fluid System with High Composition Resolution. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4067-4076.	2.6	13
38	Gravity driven current during the coalescence of two sessile drops. <i>Physics of Fluids</i> , 2015, 27, .	4.0	12
39	Comparative microfluidic screening of amino acid salt solutions for post-combustion CO2 capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 189-197.	4.6	11
40	Formation and elasticity of membranes of the class II hydrophobin Cerato-ulmin at oil-water interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 98-106.	5.0	11
41	Droplet-based characterization of surfactant efficacy in colloidal stabilization of carbon black in nonpolar solvents. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 265-274.	9.4	8
42	Interaction of toroidal focal conic defects with shear flow. <i>Soft Matter</i> , 2012, 8, 6698.	2.7	5
43	Characterization of Ferromagnetic Nanoparticles Produced by A Carbon Arc. <i>Materials Research Society Symposia Proceedings</i> , 1994, 359, 35.	0.1	3
44	Impact of Viscosity Ratio on the Dynamics of Droplet Breakup in a Microfluidic Flow Focusing Device. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
45	Numerical simulation of droplet formation in a microchannel device. <i>International Journal of Multiphysics</i> , 2013, 7, 271-286.	0.1	2
46	Modeling and Simulation of a Rollerball Microfluidic Device. , 2009, , .		1
47	A Microfluidic Tensiometer. , 2004, , 431.		0
48	Droplet Breakup in Shear and Elongation Dominated Flows in Microfluidic Devices. , 2005, , 669.		0