

# Shelley L Anna

## List of Publications by Year in descending order

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48  
papers

5,610  
citations

236612

25  
h-index

223531

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

4993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and characterization of a “store and create” microfluidic device to determine the heterogeneous freezing properties of ice nucleating particles. <i>Aerosol Science and Technology</i> , 2020, 54, 79-93.	1.5	18
2	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.	2.5	11
3	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.	1.2	13
4	Effect of surfactant tail length and ionic strength on the interfacial properties of nanoparticle-surfactant complexes. <i>Soft Matter</i> , 2018, 14, 112-123.	1.2	44
5	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.	5.0	8
6	Formation of a Rigid Hydrophobin Film and Disruption by an Anionic Surfactant at an Air/Water Interface. <i>Langmuir</i> , 2016, 32, 5542-5551.	1.6	20
7	Insoluble layer deposition and dilatational rheology at a microscale spherical cap interface. <i>Soft Matter</i> , 2016, 12, 7038-7055.	1.2	18
8	Droplets and Bubbles in Microfluidic Devices. <i>Annual Review of Fluid Mechanics</i> , 2016, 48, 285-309.	10.8	394
9	Stability of a compound sessile drop at the axisymmetric configuration. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 88-99.	5.0	15
10	Gravity driven current during the coalescence of two sessile drops. <i>Physics of Fluids</i> , 2015, 27, .	1.6	12
11	Sequential Adsorption of an Irreversibly Adsorbed Nonionic Surfactant and an Anionic Surfactant at an Oil/Aqueous Interface. <i>Langmuir</i> , 2015, 31, 4063-4071.	1.6	35
12	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.	2.3	11
13	The importance of experimental design on measurement of dynamic interfacial tension and interfacial rheology in diffusion-limited surfactant systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 467, 135-142.	2.3	46
14	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.	1.3	37
15	Controlling thread formation during tipstreaming through an active feedback control loop. <i>Lab on A Chip</i> , 2013, 13, 4534.	3.1	22
16	Numerical simulation of droplet formation in a microchannel device. <i>International Journal of Multiphysics</i> , 2013, 7, 271-286.	0.3	2
17	Formation and ordering of topological defect arrays produced by dilatational strain and shear flow in smectic- <i>A</i> liquid crystals. <i>Physical Review E</i> , 2012, 85, 011701.	0.8	17
18	Predicting conditions for microscale surfactant mediated tipstreaming. <i>Physics of Fluids</i> , 2012, 24, .	1.6	28

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19	A criterion to assess the impact of confined volumes on surfactant transport to liquid–fluid interfaces. <i>Soft Matter</i> , 2012, 8, 8917.	1.2	26
20	Probing timescales for colloidal particle adsorption using slug bubbles in rectangular microchannels. <i>Soft Matter</i> , 2012, 8, 10759.	1.2	40
21	Interaction of toroidal focal conic defects with shear flow. <i>Soft Matter</i> , 2012, 8, 6698.	1.2	5
22	Interfacial Dynamics and Rheology of Polymer-Grafted Nanoparticles at Air–Water and Xylene–Water Interfaces. <i>Langmuir</i> , 2012, 28, 8052-8063.	1.6	101
23	Tuning bubbly structures in microchannels. <i>Biomicrofluidics</i> , 2012, 6, 22004-2200418.	1.2	21
24	Using bulk convection in a microtensiometer to approach kinetic-limited surfactant dynamics at fluid–fluid interfaces. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 183-191.	5.0	59
25	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.	1.2	15
26	Competition Between Viscoelasticity and Surfactant Dynamics in Flow Focusing Microfluidics. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 203-213.	1.7	46
27	The effect of alkane tail length of C <sub>8</sub> surfactants on transport to the silicone oil–water interface. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 231-236.	5.0	27
28	Diffusion-limited adsorption to a spherical geometry: The impact of curvature and competitive time scales. <i>Physical Review E</i> , 2010, 82, 011604.	0.8	83
29	A Microtensiometer To Probe the Effect of Radius of Curvature on Surfactant Transport to a Spherical Interface. <i>Langmuir</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 557-562.	5.0	64
32	Role of geometry and fluid properties in droplet and thread formation processes in planar flow focusing. <i>Physics of Fluids</i> , 2009, 21, .	1.6	193
33	Passive breakup of viscoelastic droplets and filament self-thinning at a microfluidic T-junction. <i>Journal of Rheology</i> , 2009, 53, 663-683.	1.3	28
34	Highly uniform micro-cavity arrays in flexible elastomer film. <i>Soft Matter</i> , 2009, 5, 743.	1.2	21
35	Effect of a controlled pre-deformation history on extensional viscosity of dilute polymer solutions. <i>Rheologica Acta</i> , 2008, 47, 841-859.	1.1	21
36	Experimental observations of the squeezing-to-dripping transition in T-shaped microfluidic junctions. <i>Physical Review E</i> , 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 "flow focusing" 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