

Michael Dennin

List of Publications by Year in descending order

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65
papers

1,614
citations

279798

23
h-index

302126

39
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65
all docs

65
docs citations

65
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-Induced Stress Relaxation in a Two-Dimensional Wet Foam. <i>Physical Review Letters</i> , 2002, 89, 098303.	7.8	112
2	Spatiotemporal Chaos in Electroconvection. <i>Science</i> , 1996, 272, 388-390.	12.6	81
3	Velocity Profiles in Slowly Sheared Bubble Rafts. <i>Physical Review Letters</i> , 2004, 93, .	7.8	81
4	Chaotic Localized States near the Onset of Electroconvection. <i>Physical Review Letters</i> , 1996, 77, 2475-2478.	7.8	78
5	Folding Langmuir Monolayers. <i>Physical Review Letters</i> , 2002, 89, 146107.	7.8	74
6	Impact of boundaries on velocity profiles in bubble rafts. <i>Physical Review E</i> , 2006, 73, 031401.	2.1	73
7	Reversible plastic events in amorphous materials. <i>Physical Review E</i> , 2008, 77, 041505.	2.1	71
8	Origin of Traveling Rolls in Electroconvection of Nematic Liquid Crystals. <i>Physical Review Letters</i> , 1996, 76, 319-322.	7.8	69
9	Statistics of bubble rearrangements in a slowly sheared two-dimensional foam. <i>Physical Review E</i> , 2004, 70, 041406.	2.1	64
10	Lateral stress relaxation and collapse in lipid monolayers. <i>Soft Matter</i> , 2008, 4, 2019.	2.7	62
11	Experimental Studies of Bubble Dynamics in a Slowly Driven Monolayer Foam. <i>Physical Review Letters</i> , 1997, 78, 2485-2488.	7.8	55
12	Patterns of electroconvection in a nematic liquid crystal. <i>Physical Review E</i> , 1998, 57, 638-649.	2.1	54
13	Nonlinear stress and fluctuation dynamics of sheared disordered wet foam. <i>Physical Review E</i> , 2003, 67, 051402.	2.1	44
14	Flow transitions in two-dimensional foams. <i>Physical Review E</i> , 2006, 74, 051406.	2.1	41
15	Measurement of Monolayer Viscosity Using Noncontact Microrheology. <i>Physical Review Letters</i> , 2013, 110, 137802.	7.8	37
16	Effect of subphase Ca ⁺⁺ ions on the viscoelastic properties of Langmuir monolayers. <i>Journal of Chemical Physics</i> , 1999, 111, 3675-3678.	3.0	34
17	Quantifying flow and stress in ice mÃ©lange, the worldâ€™s largest granular material. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5105-5110.	7.1	33
18	A two-dimensional Couette viscometer for Langmuir monolayers. <i>Review of Scientific Instruments</i> , 1998, 69, 3568-3572.	1.3	32

#	ARTICLE	IF	CITATIONS
19	Discontinuous jamming transitions in soft materials: coexistence of flowing and jammed states. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 283103.	1.8	31
20	Structures of Collapsed Polysiloxane Monolayers Investigated by Scanning Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3147-3154.	2.6	29
21	Domain Coarsening in Electroconvection. <i>Physical Review Letters</i> , 2001, 86, 5898-5901.	7.8	28
22	Probing interfacial dynamics and mechanics using submerged particle microrheology. II. Experiment. <i>Physics of Fluids</i> , 2014, 26, .	4.0	25
23	Investigating the Effect of Particle Size on Pulmonary Surfactant Phase Behavior. <i>Biophysical Journal</i> , 2014, 107, 1573-1581.	0.5	24
24	Size dependent brittle to ductile transition in bubble rafts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 382, 36-41.	4.7	23
25	Aligning Practice to Policies: Changing the Culture to Recognize and Reward Teaching at Research Universities. <i>CBE Life Sciences Education</i> , 2017, 16, es5.	2.3	23
26	Patterns in Electroconvection in the Nematic Liquid Crystal 152. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 261, 337-348.	0.3	22
27	Viscous shear banding in foam. <i>Physical Review E</i> , 2008, 78, 051504.	2.1	21
28	Patterns of electroconvection in the nematic liquid crystal N4. <i>Physical Review E</i> , 2003, 67, 016207.	2.1	18
29	Langmuir Blodgett films of arachidic acid and a nematic liquid crystal: Characterization and use in homeotropic alignment. <i>Thin Solid Films</i> , 2006, 496, 601-605.	1.8	18
30	Comparison between step strains and slow steady shear in a bubble raft. <i>Physical Review E</i> , 2005, 71, 061401.	2.1	16
31	A compact Brewster-angle microscope for use in Langmuir-Blodgett deposition. <i>Review of Scientific Instruments</i> , 1998, 69, 3699-3700.	1.3	15
32	Bubble kinematics in a sheared foam. <i>Physical Review E</i> , 2006, 74, 041405.	2.1	15
33	Rheology of two-dimensional F-actin networks associated with a lipid interface. <i>Physical Review E</i> , 2008, 77, 011909.	2.1	15
34	Fluorescence Microscopy Imaging of Giant Folding in a Catanionic Monolayer. <i>Langmuir</i> , 2009, 25, 5006-5011.	3.5	15
35	Direct observation of a twist mode in electroconvection. <i>Physical Review E</i> , 2000, 62, 6780-6786.	2.1	14
36	Reversible random sequential adsorption of dimers on a triangular lattice. <i>Physical Review E</i> , 2000, 61, 1232-1238.	2.1	14

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37	Particle Size Effects on Collapse in Monolayers. Langmuir, 2012, 28, 13976-13983.	3.5	14
38	Probing interfacial dynamics and mechanics using submerged particle microrheology. I. Theory. Physics of Fluids, 2014, 26, .	4.0	14
39	Dislocation dynamics in an anisotropic stripe pattern. Physical Review E, 2004, 69, 066213.	2.1	13
40	Alternate Measurement of the Viscosity Peak in Heneicosanoic Acid Monolayers. Langmuir, 2000, 16, 10553-10555.	3.5	12
41	Combined macro- and microrheometer for use with Langmuir monolayers. Review of Scientific Instruments, 2008, 79, 063905.	1.3	12
42	Temporal modulation of the control parameter in electroconvection in the nematic liquid crystal. Physical Review E, 2000, 62, 7842-7847.	2.1	9
43	Limits of the Equivalence of Time and Ensemble Averages in Shear Flows. Physical Review Letters, 2007, 98, 220602.	7.8	9
44	Velocity fluctuations in a slowly sheared bubble raft. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 76-80.	4.7	7
45	Scaling of critical velocity for bubble raft fracture under tension. Journal of Rheology, 2012, 56, 527-541.	2.6	7
46	Buckling-induced jamming in channel flow of particle rafts. Physical Review E, 2013, 87, .	2.1	7
47	Comparison of Steady-State Shear Viscosity and Complex Shear Modulus in Langmuir Monolayers. Langmuir, 2003, 19, 3542-3544.	3.5	6
48	Tracking Giant Folds in a Monolayer. Langmuir, 2010, 26, 12755-12760.	3.5	6
49	Scaling behavior of universal pinch-off in two-dimensional foam. Physical Review E, 2013, 87, 052308.	2.1	6
50	Slow steady-shear of plastic bead rafts. Granular Matter, 2005, 7, 91-96.	2.2	5
51	Dependence of domain wall dynamics on background wave number. Physical Review E, 2004, 69, 016308.	2.1	4
52	Asymmetric Response of a Jammed Plastic Bead Raft. Physical Review Letters, 2006, 97, 110601.	7.8	4
53	Mechanical reorganization of cross-linked F-actin networks at the air-buffer interface. Soft Matter, 2011, 7, 7851.	2.7	4
54	Measurement of a short-wavelength instability in Taylor vortex flow. Physical Review E, 1994, 49, 462-469.	2.1	3

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55	Impact of noise on domain growth in electroconvection. <i>Physical Review E</i> , 2006, 74, 027201.	2.1	3
56	Comparison of low-amplitude oscillatory shear in experimental and computational studies of model foams. <i>Physical Review E</i> , 2009, 79, 041405.	2.1	3
57	Bubble ribbons under imposed flow. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 534, 38-43.	4.7	2
58	Modulation of localized states in electroconvection. <i>Physical Review E</i> , 2002, 65, 057204.	2.1	1
59	Stable small bubble clusters in two-dimensional foams. <i>Soft Matter</i> , 2017, 13, 4370-4380.	2.7	1
60	FLOW BEHAVIOR OF LANGMUIR MONOLAYERS. , 2002, , 254-254.		1
61	Characterization of Anomalous Flow and Phase Behavior in a Langmuir Monolayer of 2-Hydroxy-tetracosanoic Acid. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22245-22250.	2.6	0
62	Early time evolution of Fréedericksz patterns generated from states of electroconvection. <i>Physical Review E</i> , 2006, 73, 057201.	2.1	0
63	Langmuir monolayers. , 0, , 97-120.		0
64	Macroscopic strain controlled ion current in an elastomeric microchannel. <i>Journal of Applied Physics</i> , 2015, 117, 174904.	2.5	0
65	Bubble-raft collapse and the nonequilibrium dynamics of two-state elastica. <i>Physical Review E</i> , 2016, 93, 032613.	2.1	0