

Michael Dennin

List of Publications by Year in descending order

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65
papers

1,614
citations

279798

23
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302126

39
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all docs

65
docs citations

65
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying flow and stress in ice mÃ©lange, the worldâ€™s largest granular material. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5105-5110.	7.1	33
2	Stable small bubble clusters in two-dimensional foams. Soft Matter, 2017, 13, 4370-4380.	2.7	1
3	Bubble ribbons under imposed flow. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 534, 38-43.	4.7	2
4	Aligning Practice to Policies: Changing the Culture to Recognize and Reward Teaching at Research Universities. CBE Life Sciences Education, 2017, 16, es5.	2.3	23
5	Bubble-raft collapse and the nonequilibrium dynamics of two-state elastica. Physical Review E, 2016, 93, 032613.	2.1	0
6	Macroscopic strain controlled ion current in an elastomeric microchannel. Journal of Applied Physics, 2015, 117, 174904.	2.5	0
7	Probing interfacial dynamics and mechanics using submerged particle microrheology. I. Theory. Physics of Fluids, 2014, 26, .	4.0	14
8	Investigating the Effect of Particle Size on Pulmonary Surfactant Phase Behavior. Biophysical Journal, 2014, 107, 1573-1581.	0.5	24
9	Probing interfacial dynamics and mechanics using submerged particle microrheology. II. Experiment. Physics of Fluids, 2014, 26, .	4.0	25
10	Buckling-induced jamming in channel flow of particle rafts. Physical Review E, 2013, 87, .	2.1	7
11	Measurement of Monolayer Viscosity Using Noncontact Microrheology. Physical Review Letters, 2013, 110, 137802.	7.8	37
12	Scaling behavior of universal pinch-off in two-dimensional foam. Physical Review E, 2013, 87, 052308.	2.1	6
13	Particle Size Effects on Collapse in Monolayers. Langmuir, 2012, 28, 13976-13983.	3.5	14
14	Scaling of critical velocity for bubble raft fracture under tension. Journal of Rheology, 2012, 56, 527-541.	2.6	7
15	Mechanical reorganization of cross-linked F-actin networks at the air-buffer interface. Soft Matter, 2011, 7, 7851.	2.7	4
16	Size dependent brittle to ductile transition in bubble rafts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 382, 36-41.	4.7	23
17	Tracking Giant Folds in a Monolayer. Langmuir, 2010, 26, 12755-12760.	3.5	6
18	Comparison of low-amplitude oscillatory shear in experimental and computational studies of model foams. Physical Review E, 2009, 79, 041405.	2.1	3

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19	Fluorescence Microscopy Imaging of Giant Folding in a Catanionic Monolayer. <i>Langmuir</i> , 2009, 25, 5006-5011.	3.5	15
20	Lateral stress relaxation and collapse in lipid monolayers. <i>Soft Matter</i> , 2008, 4, 2019.	2.7	62
21	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
22	Combined macro- and microrheometer for use with Langmuir monolayers. <i>Review of Scientific Instruments</i> , 2008, 79, 063905.	1.3	12
23	Rheology of two-dimensional F-actin networks associated with a lipid interface. <i>Physical Review E</i> , 2008, 77, 011909.	2.1	15
24	Viscous shear banding in foam. <i>Physical Review E</i> , 2008, 78, 051504.	2.1	21
25	Reversible plastic events in amorphous materials. <i>Physical Review E</i> , 2008, 77, 041505.	2.1	71
26	Limits of the Equivalence of Time and Ensemble Averages in Shear Flows. <i>Physical Review Letters</i> , 2007, 98, 220602.	7.8	9
27	Flow transitions in two-dimensional foams. <i>Physical Review E</i> , 2006, 74, 051406.	2.1	41
28	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
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	Early time evolution of Fréedericksz patterns generated from states of electroconvection. <i>Physical Review E</i> , 2006, 73, 057201.	2.1	0
31	Impact of boundaries on velocity profiles in bubble rafts. <i>Physical Review E</i> , 2006, 73, 031401.	2.1	73
32	Asymmetric Response of a Jammed Plastic Bead Raft. <i>Physical Review Letters</i> , 2006, 97, 110601.	7.8	4
33	Impact of noise on domain growth in electroconvection. <i>Physical Review E</i> , 2006, 74, 027201.	2.1	3
34	Bubble kinematics in a sheared foam. <i>Physical Review E</i> , 2006, 74, 041405.	2.1	15
35	Velocity fluctuations in a slowly sheared bubble raft. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 263, 76-80.	4.7	7
36	Slow steady-shear of plastic bead rafts. <i>Granular Matter</i> , 2005, 7, 91-96.	2.2	5

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37	Comparison between step strains and slow steady shear in a bubble raft. Physical Review E, 2005, 71, 061401.	2.1	16
38	Dependence of domain wall dynamics on background wave number. Physical Review E, 2004, 69, 016308.	2.1	4
39	Statistics of bubble rearrangements in a slowly sheared two-dimensional foam. Physical Review E, 2004, 70, 041406.	2.1	64
40	Velocity Profiles in Slowly Sheared Bubble Rafts. Physical Review Letters, 2004, 93, .	7.8	81
41	Dislocation dynamics in an anisotropic stripe pattern. Physical Review E, 2004, 69, 066213.	2.1	13
42	Comparison of Steady-State Shear Viscosity and Complex Shear Modulus in Langmuir Monolayers. Langmuir, 2003, 19, 3542-3544.	3.5	6
43	Patterns of electroconvection in the nematic liquid crystal N4. Physical Review E, 2003, 67, 016207.	2.1	18
44	Nonlinear stress and fluctuation dynamics of sheared disordered wet foam. Physical Review E, 2003, 67, 051402.	2.1	44
45	Modulation of localized states in electroconvection. Physical Review E, 2002, 65, 057204.	2.1	1
46	Shear-Induced Stress Relaxation in a Two-Dimensional Wet Foam. Physical Review Letters, 2002, 89, 098303.	7.8	112
47	Folding Langmuir Monolayers. Physical Review Letters, 2002, 89, 146107.	7.8	74
48	FLOW BEHAVIOR OF LANGMUIR MONOLAYERS. , 2002, , 254-254.		1
49	Domain Coarsening in Electroconvection. Physical Review Letters, 2001, 86, 5898-5901.	7.8	28
50	Direct observation of a twist mode in electroconvection. Physical Review E, 2000, 62, 6780-6786.	2.1	14
51	Reversible random sequential adsorption of dimers on a triangular lattice. Physical Review E, 2000, 61, 1232-1238.	2.1	14
52	Temporal modulation of the control parameter in electroconvection in the nematic liquid crystal52. Physical Review E, 2000, 62, 7842-7847.	2.1	9
53	Alternate Measurement of the Viscosity Peak in Heneicosanoic Acid Monolayers. Langmuir, 2000, 16, 10553-10555.	3.5	12
54	Effect of subphase Ca ⁺⁺ ions on the viscoelastic properties of Langmuir monolayers. Journal of Chemical Physics, 1999, 111, 3675-3678.	3.0	34

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55	A compact Brewster-angle microscope for use in Langmuir-Blodgett deposition. Review of Scientific Instruments, 1998, 69, 3699-3700.	1.3	15
56	Patterns of electroconvection in a nematic liquid crystal. Physical Review E, 1998, 57, 638-649.	2.1	54
57	A two-dimensional Couette viscometer for Langmuir monolayers. Review of Scientific Instruments, 1998, 69, 3568-3572.	1.3	32
58	Experimental Studies of Bubble Dynamics in a Slowly Driven Monolayer Foam. Physical Review Letters, 1997, 78, 2485-2488.	7.8	55
59	Structures of Collapsed Polysiloxane Monolayers Investigated by Scanning Force Microscopy. Journal of Physical Chemistry B, 1997, 101, 3147-3154.	2.6	29
60	Spatiotemporal Chaos in Electroconvection. Science, 1996, 272, 388-390.	12.6	81
61	Chaotic Localized States near the Onset of Electroconvection. Physical Review Letters, 1996, 77, 2475-2478.	7.8	78
62	Origin of Traveling Rolls in Electroconvection of Nematic Liquid Crystals. Physical Review Letters, 1996, 76, 319-322.	7.8	69
63	Patterns in Electroconvection in the Nematic Liquid Crystal 152. Molecular Crystals and Liquid Crystals, 1995, 261, 337-348.	0.3	22
64	Measurement of a short-wavelength instability in Taylor vortex flow. Physical Review E, 1994, 49, 462-469.	2.1	3
65	Langmuir monolayers. , 0, , 97-120.		0