Nathan C Keim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structure-property relationships from universal signatures of plasticity in disordered solids. Science, 2017, 358, 1033-1037.	12.6	218
2	Memory formation in matter. Reviews of Modern Physics, 2019, 91, .	45.6	142
3	Mechanical and Microscopic Properties of the Reversible Plastic Regime in a 2D Jammed Material. Physical Review Letters, 2014, 112, 028302.	7.8	110
4	Yielding and microstructure in a 2D jammed material under shear deformation. Soft Matter, 2013, 9, 6222.	2.7	79
5	Breakup of Air Bubbles in Water: Memory and Breakdown of Cylindrical Symmetry. Physical Review Letters, 2006, 97, 144503.	7.8	75
6	Fluid elasticity can enable propulsion at low Reynolds number. Physics of Fluids, 2012, 24, .	4.0	72
7	Generic Transient Memory Formation in Disordered Systems with Noise. Physical Review Letters, 2011, 107, 010603.	7.8	70
8	Multiple Transient Memories in Experiments on Sheared Non-Brownian Suspensions. Physical Review Letters, 2014, 113, 068301.	7.8	67
9	Undulatory swimming in shear-thinning fluids: experiments with <i>Caenorhabditis elegans</i> . Journal of Fluid Mechanics, 2014, 758, .	3.4	53
10	Memory-encoding vibrations in a disconnecting airÂbubble. Nature Physics, 2009, 5, 343-346.	16.7	28
11	Multiple transient memories in sheared suspensions: Robustness, structure, and routes to plasticity. Physical Review E, 2013, 88, 032306.	2.1	28
12	Role of disorder in finite-amplitude shear of a 2D jammed material. Soft Matter, 2015, 11, 1539-1546.	2.7	27
13	Global memory from local hysteresis in an amorphous solid. Physical Review Research, 2020, 2, .	3.6	26
14	Multiperiodic orbits from interacting soft spots in cyclically sheared amorphous solids. Science Advances, 2021, 7, .	10.3	17
15	Measuring material relaxation and creep recovery in a microfluidic device. Lab on A Chip, 2013, 13, 1850.	6.0	16
16	Chiral sedimentation of extended objects in viscous media. Physical Review E, 2009, 79, 056307.	2.1	15
17	Radio Polarization of the Young High–Magneticâ€Field Pulsar PSR J1119â^6127. Astrophysical Journal, 2003, 590, 1020-1025.	4.5	14
18	Minimal descriptions of cyclic memories. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180874.	2.1	14

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19	Scaling of relaxation and excess entropy in plastically deformed amorphous solids. Proceedings of the United States of America, 2020, 117, 11887-11893.	7.1	14
20	Structure and dynamics of self-assembling colloidal monolayers in oscillating magnetic fields. Physical Review E, 2013, 88, 062304.	2.1	13
21	Fluid-induced propulsion of rigid particles in wormlike micellar solutions. Physics of Fluids, 2014, 26,	4.0	13
22	Tuning the rheology and microstructure of particle-laden fluid interfaces with Janus particles. Journal of Colloid and Interface Science, 2022, 618, 241-247.	9.4	12
23	Relationships between structure, memory and flow in sheared disordered materials. Nature Physics, 2022, 18, 565-570.	16.7	8
24	Enhancement of Curie temperature in Ga1â´`xMnxAs epilayers grown on cross-hatched InyGa1â´`yAs buffer layers. Journal of Crystal Growth, 2004, 269, 298-303.	1.5	7
25	Perturbed breakup of gas bubbles in water: Memory, gas flow, and coalescence. Physical Review E, 2011, 83, 056325.	2.1	7
26	Miniature magnetic rod interfacial stress rheometer for general-purpose microscopes. Journal of Rheology, 2021, 65, 1103-1110.	2.6	4
27	Non-Linear, Granular, and Fluid Physics. , 2020, , 327-340.		0