Nathan C Keim

List of Publications by Year
in descending order

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27	1,149	567281 15	552781 26
papers	citations	h-index	g-index

27	27	27	1188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relationships between structure, memory and flow in sheared disordered materials. Nature Physics, 2022, 18, 565-570.	16.7	8
2	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
3	Multiperiodic orbits from interacting soft spots in cyclically sheared amorphous solids. Science Advances, 2021, 7, .	10.3	17
4	Miniature magnetic rod interfacial stress rheometer for general-purpose microscopes. Journal of Rheology, 2021, 65, 1103-1110.	2.6	4
5	Scaling of relaxation and excess entropy in plastically deformed amorphous solids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11887-11893.	7.1	14
6	Global memory from local hysteresis in an amorphous solid. Physical Review Research, 2020, 2, .	3.6	26
7	Non-Linear, Granular, and Fluid Physics. , 2020, , 327-340.		0
8	Memory formation in matter. Reviews of Modern Physics, 2019, 91, .	45.6	142
9	Minimal descriptions of cyclic memories. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180874.	2.1	14
10	Structure-property relationships from universal signatures of plasticity in disordered solids. Science, 2017, 358, 1033-1037.	12.6	218
11	Role of disorder in finite-amplitude shear of a 2D jammed material. Soft Matter, 2015, 11, 1539-1546.	2.7	27
12	Fluid-induced propulsion of rigid particles in wormlike micellar solutions. Physics of Fluids, 2014, 26, .	4.0	13
13	Undulatory swimming in shear-thinning fluids: experiments withCaenorhabditis elegans. Journal of Fluid Mechanics, 2014, 758, .	3.4	53
14	Mechanical and Microscopic Properties of the Reversible Plastic Regime in a 2D Jammed Material. Physical Review Letters, 2014, 112, 028302.	7.8	110
15	Multiple Transient Memories in Experiments on Sheared Non-Brownian Suspensions. Physical Review Letters, 2014, 113, 068301.	7.8	67
16	Yielding and microstructure in a 2D jammed material under shear deformation. Soft Matter, 2013, 9, 6222.	2.7	79
17	Measuring material relaxation and creep recovery in a microfluidic device. Lab on A Chip, 2013, 13, 1850.	6.0	16
18	Multiple transient memories in sheared suspensions: Robustness, structure, and routes to plasticity. Physical Review E, 2013, 88, 032306.	2.1	28

#	Article	IF	Citations
19	Structure and dynamics of self-assembling colloidal monolayers in oscillating magnetic fields. Physical Review E, 2013, 88, 062304.	2.1	13
20	Fluid elasticity can enable propulsion at low Reynolds number. Physics of Fluids, 2012, 24, .	4.0	72
21	Perturbed breakup of gas bubbles in water: Memory, gas flow, and coalescence. Physical Review E, 2011, 83, 056325.	2.1	7
22	Generic Transient Memory Formation in Disordered Systems with Noise. Physical Review Letters, 2011, 107, 010603.	7.8	70
23	Chiral sedimentation of extended objects in viscous media. Physical Review E, 2009, 79, 056307.	2.1	15
24	Memory-encoding vibrations in a disconnecting airÂbubble. Nature Physics, 2009, 5, 343-346.	16.7	28
25	Breakup of Air Bubbles in Water: Memory and Breakdown of Cylindrical Symmetry. Physical Review Letters, 2006, 97, 144503.	7.8	75
26	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
27	Radio Polarization of the Young Highâ€"Magneticâ€Field Pulsar PSR J1119â^'6127. Astrophysical Journal, 2003, 590, 1020-1025.	4.5	14