James Adams

List of Publications by Year
in descending order

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25	606	687363 13	580821 25
papers	citations	h-index	g-index

25	25	25	380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transient shear banding in the nematic dumbbell model of liquid crystalline polymers. Physical Review E, 2018, 97, 052601.	2.1	1
2	Colloidal polymer composites: Are nano-fillers always better for improving mechanical properties?. Journal of Colloid and Interface Science, 2018, 523, 45-55.	9.4	15
3	Tack energy and switchable adhesion of liquid crystal elastomers. Soft Matter, 2013, 9, 1151-1163.	2.7	13
4	Numerical study of stretched smectic-Aelastomer sheets. Physical Review E, 2013, 88, 012512.	2.1	3
5	Negative Poisson's ratio and semisoft elasticity of smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml:math>liquid-crystal elastomers. Physical Review E, 2012, 85, 011703.	2.1	10
6	Transient shear banding in entangled polymers: A study using the Rolie-Poly model. Journal of Rheology, 2011, 55, 1007-1032.	2.6	80
7	Strain analysis of a chiral smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>elastomer. Physical Review E, 2010, 82, 031705.	2.1	8
8	Nonmonotonic Models are Not Necessary to Obtain Shear Banding Phenomena in Entangled Polymer Solutions. Physical Review Letters, 2009, 102, 067801.	7.8	100
9	Mechanical switching of ferroelectric rubber. Physical Review E, 2009, 79, 061704.	2.1	7
10	Adams and Olmsted Reply:. Physical Review Letters, 2009, 103, .	7.8	27
11	The interplay between boundary conditions and flow geometries in shear banding: Hysteresis, band configurations, and surface transitions. Journal of Non-Newtonian Fluid Mechanics, 2008, 151, 101-118.	2.4	63
12	RELAXATION OF SOME TRANSVERSALLY ISOTROPIC ENERGIES AND APPLICATIONS TO SMECTIC A ELASTOMERS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1-20.	3.3	22
13	Smectic-Ctilt under shear in smectic-Aelastomers. Physical Review E, 2008, 78, 021705.	2.1	12
14	Smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>elastomers with weak director anchoring. Physical Review E, 2008, 78, 011703.	2.1	18
15	Mechanical response of smectic-Celastomers. Physical Review E, 2008, 77, 021702.	2.1	15
16	Stress relaxation in polymer networks: Equilibrium behavior and dynamics. Journal of Chemical Physics, 2007, 127, 114907.	3.0	4
17	Soft elasticity and microstructure in smectic C elastomers. Continuum Mechanics and Thermodynamics, 2006, 18, 319-334.	2.2	18
18	Spontaneous shears in smectic elastomers. Physical Review E, 2006, 73, 031706.	2.1	21

#	Article	IF	Citations
19	Lattice modes of hexamethylbenzene studied by inelastic neutron scattering. Chemical Physics, 2005, 317, 143-152.	1.9	8
20	Hairpin rubber elasticity. European Physical Journal E, 2005, 16, 97-107.	1.6	24
21	Elasticity of smectic-Aelastomers. Physical Review E, 2005, 71, 021708.	2.1	63
22	Soft elasticity in smectic elastomers. Physical Review E, 2005, 72, 011703.	2.1	38
23	On the polarization of chiral main-chain liquid-crystalline elastomers. European Physical Journal E, 2004, 14, 277-285.	1.6	2
24	Cracking a chemical conundrum. Physica B: Condensed Matter, 2004, 350, E351-E354.	2.7	8
25	A quantitative parameter for predicting mixing behaviour in adsorbed layers: the 2D isomorphism coefficient. Chemical Physics Letters, 2003, 373, 480-485.	2.6	26