

James Adams

List of Publications by Year in descending order

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25
papers

606
citations

687363

13
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonmonotonic Models are Not Necessary to Obtain Shear Banding Phenomena in Entangled Polymer Solutions. <i>Physical Review Letters</i> , 2009, 102, 067801.	7.8	100
2	Transient shear banding in entangled polymers: A study using the Rolie-Poly model. <i>Journal of Rheology</i> , 2011, 55, 1007-1032.	2.6	80
3	Elasticity of smectic-Elastomers. <i>Physical Review E</i> , 2005, 71, 021708.	2.1	63
4	The interplay between boundary conditions and flow geometries in shear banding: Hysteresis, band configurations, and surface transitions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 151, 101-118.	2.4	63
5	Soft elasticity in smectic elastomers. <i>Physical Review E</i> , 2005, 72, 011703.	2.1	38
6	Adams and Olmsted Reply. <i>Physical Review Letters</i> , 2009, 103, .	7.8	27
7	A quantitative parameter for predicting mixing behaviour in adsorbed layers: the 2D isomorphism coefficient. <i>Chemical Physics Letters</i> , 2003, 373, 480-485.	2.6	26
8	Hairpin rubber elasticity. <i>European Physical Journal E</i> , 2005, 16, 97-107.	1.6	24
9	RELAXATION OF SOME TRANSVERSALLY ISOTROPIC ENERGIES AND APPLICATIONS TO SMECTIC A ELASTOMERS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2008, 18, 1-20.	3.3	22
10	Spontaneous shears in smectic elastomers. <i>Physical Review E</i> , 2006, 73, 031706.	2.1	21
11	Soft elasticity and microstructure in smectic C elastomers. <i>Continuum Mechanics and Thermodynamics</i> , 2006, 18, 319-334.	2.2	18
12	Smectic- A elastomers with weak director anchoring. <i>Physical Review E</i> , 2008, 78, 011703.	2.1	18
13	Mechanical response of smectic-C elastomers. <i>Physical Review E</i> , 2008, 77, 021702.	2.1	15
14	Colloidal polymer composites: Are nano-fillers always better for improving mechanical properties?. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 45-55.	9.4	15
15	Tack energy and switchable adhesion of liquid crystal elastomers. <i>Soft Matter</i> , 2013, 9, 1151-1163.	2.7	13
16	Smectic-C tilt under shear in smectic-Elastomers. <i>Physical Review E</i> , 2008, 78, 021705.	2.1	12
17	Negative Poisson's ratio and semisoft elasticity of smectic- C liquid-crystal elastomers. <i>Physical Review E</i> , 2012, 85, 011703.	2.1	10
18	Cracking a chemical conundrum. <i>Physica B: Condensed Matter</i> , 2004, 350, E351-E354.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Lattice modes of hexamethylbenzene studied by inelastic neutron scattering. Chemical Physics, 2005, 317, 143-152.	1.9	8
20	Strain analysis of a chiral smectic- A elastomer. Physical Review E, 2010, 82, 031705.	2.1	8
21	Mechanical switching of ferroelectric rubber. Physical Review E, 2009, 79, 061704.	2.1	7
22	Stress relaxation in polymer networks: Equilibrium behavior and dynamics. Journal of Chemical Physics, 2007, 127, 114907.	3.0	4
23	Numerical study of stretched smectic-A elastomer sheets. Physical Review E, 2013, 88, 012512.	2.1	3
24	On the polarization of chiral main-chain liquid-crystalline elastomers. European Physical Journal E, 2004, 14, 277-285.	1.6	2
25	Transient shear banding in the nematic dumbbell model of liquid crystalline polymers. Physical Review E, 2018, 97, 052601.	2.1	1