Andrew B Croll

List of Publications by Year
in descending order

30 papers	858 citations	623734 14 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	1132 citing authors

#	Article	IF	Citations
1	Sticky crumpled matter. Matter, 2022, 5, 1792-1805.	10.0	11
2	Understanding the Role of Self-Adhesion in Crumpling Behaviors of Sheet Macromolecules. Langmuir, 2021, 37, 8627-8637.	3.5	14
3	Adhesion directed capillary origami. Soft Matter, 2021, 17, 9170-9180.	2.7	4
4	Adhesion of a tape loop. Soft Matter, 2020, 16, 10611-10619.	2.7	10
5	Switchable Adhesives for Multifunctional Interfaces. Advanced Materials Technologies, 2019, 4, 1900193.	5.8	101
6	The compressive strength of crumpled matter. Nature Communications, 2019, 10, 1502.	12.8	17
7	Origami Inspired Mechanics: Measuring Modulus and Force Recovery with Bent Polymer Films. Macromolecules, 2019, 52, 690-699.	4.8	15
8	Effect of volume fraction of reinforcement phase on mechanical behavior of ultra-high-temperature composite consisting of iron matrix and TiB₂ particulates. Journal of Composite Materials, 2018, 52, 609-620.	2.4	16
9	Microscopic details of a fluid/thin film triple line. Soft Matter, 2018, 14, 7492-7499.	2.7	6
10	Localization in an idealized heterogeneous elastic sheet. Soft Matter, 2017, 13, 1764-1772.	2.7	14
11	The Influence of Viscosity on the Static and Dynamic Properties of PS-PEO Covered Emulsion Drops. Processes, 2016, 4, 47.	2.8	1
12	Late stage drainage of block copolymer stabilized emulsion drops. Soft Matter, 2016, 12, 9616-9621.	2.7	2
13	Compliance switching for adhesion control. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 48-57.	2.1	18
14	Using the Sessile Drop Geometry to Measure Fluid and Elastic Block Copolymer Interfaces. Langmuir, 2015, 31, 1303-1311.	3.5	3
15	Influence of Thin Film Confinement on Surface Plasticity in Polystyrene and Poly(2-vinylpyridine) Homopolymer and Block Copolymer Films. Macromolecules, 2015, 48, 5670-5676.	4.8	6
16	Micromechanics of elastic buckling of a colloidal polymer layer on a soft substrate: experiment and theory. Granular Matter, 2014, 16, 249-258.	2.2	9
17	Onset of Plasticity in Thin Polystyrene Films. Physical Review Letters, 2013, 110, 074301.	7.8	24
18	Localization and length-scale doubling in disordered films on soft substrates. Physical Review E, 2013, 88, 032409.	2.1	16

#	Article	IF	Citations
19	Experimental evidence and structural mechanics analysis of force chain buckling at the microscale in a 2D polymeric granular layer. AIP Conference Proceedings, 2013, , .	0.4	1
20	Wrinkling and strain localizations in polymer thin films. Soft Matter, 2012, 8, 9086.	2.7	107
21	Pattern Driven Stress Localization in Thin Diblock Copolymer Films. Macromolecules, 2012, 45, 4001-4006.	4.8	23
22	Designing Bioâ€Inspired Adhesives for Shear Loading: From Simple Structures to Complex Patterns. Advanced Functional Materials, 2012, 22, 4985-4992.	14.9	60
23	Looking Beyond Fibrillar Features to Scale Geckoâ€Like Adhesion. Advanced Materials, 2012, 24, 1078-1083.	21.0	243
24	Biomimetics: Looking Beyond Fibrillar Features to Scale Gecko-Like Adhesion (Adv. Mater. 8/2012). Advanced Materials, 2012, 24, 994-994.	21.0	4
25	Hole nucleation in free-standing polymer membranes: the effects of varying molecular architecture. Soft Matter, 2010, 6, 5547.	2.7	15
26	Contact-line mechanics for pattern control. Soft Matter, 2010, 6, 5789.	2.7	41
27	Ordering of a lamella-forming fluid near an interface. Physical Review E, 2009, 80, 051803.	2.1	12
28	Spreading of diblock copolymer droplets: A probe of polymer micro-rheology. European Physical Journal E, 2009, 29, 239-244.	1.6	9
29	Kinetics of layer hopping in a diblock copolymer lamellar phase. European Physical Journal E, 2008, 27, 407-411.	1.6	13
30	Droplet Shape of an Anisotropic Liquid. Physical Review Letters, 2006, 97, 204502.	7.8	36