

# Andrew B Croll

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5693372/publications.pdf>

Version: 2024-02-01

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	Looking Beyond Fibrillar Features to Scale Gecko-Like Adhesion. <i>Advanced Materials</i> , 2012, 24, 1078-1083.	21.0	243
2	Wrinkling and strain localizations in polymer thin films. <i>Soft Matter</i> , 2012, 8, 9086.	2.7	107
3	Switchable Adhesives for Multifunctional Interfaces. <i>Advanced Materials Technologies</i> , 2019, 4, 1900193.	5.8	101
4	Designing Bio-Inspired Adhesives for Shear Loading: From Simple Structures to Complex Patterns. <i>Advanced Functional Materials</i> , 2012, 22, 4985-4992.	14.9	60
5	Contact-line mechanics for pattern control. <i>Soft Matter</i> , 2010, 6, 5789.	2.7	41
6	Droplet Shape of an Anisotropic Liquid. <i>Physical Review Letters</i> , 2006, 97, 204502.	7.8	36
7	Onset of Plasticity in Thin Polystyrene Films. <i>Physical Review Letters</i> , 2013, 110, 074301.	7.8	24
8	Pattern Driven Stress Localization in Thin Diblock Copolymer Films. <i>Macromolecules</i> , 2012, 45, 4001-4006.	4.8	23
9	Compliance switching for adhesion control. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 48-57.	2.1	18
10	The compressive strength of crumpled matter. <i>Nature Communications</i> , 2019, 10, 1502.	12.8	17
11	Localization and length-scale doubling in disordered films on soft substrates. <i>Physical Review E</i> , 2013, 88, 032409.	2.1	16
12	Effect of volume fraction of reinforcement phase on mechanical behavior of ultra-high-temperature composite consisting of iron matrix and TiB <sub>2</sub> particulates. <i>Journal of Composite Materials</i> , 2018, 52, 609-620.	2.4	16
13	Hole nucleation in free-standing polymer membranes: the effects of varying molecular architecture. <i>Soft Matter</i> , 2010, 6, 5547.	2.7	15
14	Origami Inspired Mechanics: Measuring Modulus and Force Recovery with Bent Polymer Films. <i>Macromolecules</i> , 2019, 52, 690-699.	4.8	15
15	Localization in an idealized heterogeneous elastic sheet. <i>Soft Matter</i> , 2017, 13, 1764-1772.	2.7	14
16	Understanding the Role of Self-Adhesion in Crumpling Behaviors of Sheet Macromolecules. <i>Langmuir</i> , 2021, 37, 8627-8637.	3.5	14
17	Kinetics of layer hopping in a diblock copolymer lamellar phase. <i>European Physical Journal E</i> , 2008, 27, 407-411.	1.6	13
18	Ordering of a lamella-forming fluid near an interface. <i>Physical Review E</i> , 2009, 80, 051803.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Sticky crumpled matter. Matter, 2022, 5, 1792-1805.	10.0	11
20	Adhesion of a tape loop. Soft Matter, 2020, 16, 10611-10619.	2.7	10
21	Spreading of diblock copolymer droplets: A probe of polymer micro-rheology. European Physical Journal E, 2009, 29, 239-244.	1.6	9
22	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
23	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
24	Microscopic details of a fluid/thin film triple line. Soft Matter, 2018, 14, 7492-7499.	2.7	6
25	Biomimetics: Looking Beyond Fibrillar Features to Scale Gecko-Like Adhesion (Adv. Mater. 8/2012). Advanced Materials, 2012, 24, 994-994.	21.0	4
26	Adhesion directed capillary origami. Soft Matter, 2021, 17, 9170-9180.	2.7	4
27	Using the Sessile Drop Geometry to Measure Fluid and Elastic Block Copolymer Interfaces. Langmuir, 2015, 31, 1303-1311.	3.5	3
28	Late stage drainage of block copolymer stabilized emulsion drops. Soft Matter, 2016, 12, 9616-9621.	2.7	2
29	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
30	The Influence of Viscosity on the Static and Dynamic Properties of PS-PEO Covered Emulsion Drops. Processes, 2016, 4, 47.	2.8	1