

List of Publications by Year in descending order

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64
papers

8,129
citations

126708

33
h-index

128067

60
g-index

67
all docs

67
docs citations

67
times ranked

8266
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic Carbon Nanotube Forests. Nano Letters, 2003, 3, 1701-1705.	4.5	1,527
2	Wetting of textured surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 41-46.	2.3	1,167
3	Pearl drops. Europhysics Letters, 1999, 47, 220-226.	0.7	930
4	Rough wetting. Europhysics Letters, 2001, 55, 214-220.	0.7	607
5	Capillary Origami: Spontaneous Wrapping of a Droplet with an Elastic Sheet. Physical Review Letters, 2007, 98, 156103.	2.9	388
6	Elastocapillary coalescence in wet hair. Nature, 2004, 432, 690-690.	13.7	374
7	Slippy and sticky microtextured solids. Nanotechnology, 2003, 14, 1109-1112.	1.3	271
8	Elasto-capillarity: deforming an elastic structure with a liquid droplet. Journal of Physics Condensed Matter, 2010, 22, 493101.	0.7	266
9	Bio-inspired pneumatic shape-morphing elastomers. Nature Materials, 2019, 18, 24-28.	13.3	226
10	The macroscopic delamination of thin films from elastic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10901-10906.	3.3	225
11	Elastocapillarity: When Surface Tension Deforms Elastic Solids. Annual Review of Fluid Mechanics, 2018, 50, 629-659.	10.8	198
12	Wrinkling Hierarchy in Constrained Thin Sheets from Suspended Graphene to Curtains. Physical Review Letters, 2011, 106, 224301.	2.9	171
13	Self-propelling slugs. Journal of Fluid Mechanics, 2002, 467, 101-127.	1.4	126
14	Rise of Liquids and Bubbles in Angular Capillary Tubes. Journal of Colloid and Interface Science, 2002, 247, 162-166.	5.0	97
15	Ex vivo rheology of spider silk. Journal of Experimental Biology, 2006, 209, 4355-4362.	0.8	97
16	Marangoni Bursting: Evaporation-Induced Emulsification of Binary Mixtures on a Liquid Layer. Physical Review Letters, 2017, 118, 074504.	2.9	97
17	3D aggregation of wet fibers. Europhysics Letters, 2007, 77, 44005.	0.7	87
18	Liquid trains in a tube. Europhysics Letters, 2000, 51, 546-550.	0.7	73

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19	Self-Replicating Cracks: A Collaborative Fracture Mode in Thin Films. <i>Physical Review Letters</i> , 2014, 113, 085502.	2.9	68
20	Wrapping an Adhesive Sphere with an Elastic Sheet. <i>Physical Review Letters</i> , 2011, 106, 174301.	2.9	67
21	Capillary origami controlled by an electric field. <i>Soft Matter</i> , 2010, 6, 4491.	1.2	65
22	Falling Slugs. <i>Journal of Colloid and Interface Science</i> , 2001, 243, 262-264.	5.0	63
23	Precursors of impregnation. <i>Europhysics Letters</i> , 2003, 61, 348-353.	0.7	61
24	“Gobbling drops”: the jetting-dripping transition in flows of polymer solutions. <i>Journal of Fluid Mechanics</i> , 2009, 636, 5-40.	1.4	60
25	Piercing a liquid surface with an elastic rod: Buckling under capillary forces. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 1212-1235.	2.3	58
26	Forbidden Directions for the Fracture of Thin Anisotropic Sheets: An Analogy with the Wulff Plot. <i>Physical Review Letters</i> , 2013, 110, 144301.	2.9	55
27	Capillary buckling of a floating annulus. <i>Soft Matter</i> , 2013, 9, 10985.	1.2	47
28	Stamping and Wrinkling of Elastic Plates. <i>Physical Review Letters</i> , 2012, 109, 054302.	2.9	46
29	Capillarity induced folding of elastic sheets. <i>European Physical Journal: Special Topics</i> , 2009, 166, 67-71.	1.2	43
30	Single cell rheometry with a microfluidic constriction: Quantitative control of friction and fluid leaks between cell and channel walls. <i>Biomicrofluidics</i> , 2013, 7, 024111.	1.2	43
31	A laboratory model of splash-form tektites. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1331-1340.	0.7	41
32	Elastocapillary coalescence: Aggregation and fragmentation with a maximal size. <i>Physical Review E</i> , 2007, 76, 060102.	0.8	34
33	Piercing an interface with a brush: Collaborative stiffening. <i>Europhysics Letters</i> , 2010, 90, 44006.	0.7	34
34	Effect of friction on the peeling test at zero-degrees. <i>Soft Matter</i> , 2015, 11, 9281-9290.	1.2	33
35	Capillary rise between flexible walls. <i>Europhysics Letters</i> , 2011, 96, 24001.	0.7	30
36	Rolling stones: The motion of a sphere down an inclined plane coated with a thin liquid film. <i>Physics of Fluids</i> , 2009, 21, .	1.6	29

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37	Three-dimensional lithography by elasto-capillary engineering of filamentary materials. MRS Bulletin, 2016, 41, 108-114.	1.7	27
38	Programming stiff inflatable shells from planar patterned fabrics. Soft Matter, 2020, 16, 7898-7903.	1.2	27
39	Stretch-induced wrinkles in reinforced membranes: From out-of-plane to in-plane structures. Europhysics Letters, 2011, 96, 64001.	0.7	25
40	Buckling of elastomer sheets under non-uniform electro-actuation. Soft Matter, 2017, 13, 2876-2885.	1.2	25
41	Programming curvilinear paths of flat inflatables. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16692-16696.	3.3	23
42	Curvature Induced by Deflection in Thick Meta-Plates. Advanced Materials, 2021, 33, e2008082.	11.1	22
43	A new failure mechanism in thin film by collaborative fracture and delamination: Interacting duos of cracks. Journal of the Mechanics and Physics of Solids, 2015, 84, 214-229.	2.3	16
44	Dynamics of non-wetting drops confined in a Hele-Shaw cell. Journal of Fluid Mechanics, 2018, 845, 245-262.	1.4	16
45	Motion of Viscous Droplets in Rough Confinement: Paradoxical Lubrication. Physical Review Letters, 2019, 122, 074501.	2.9	16
46	Popliteal rippling of layered elastic tubes and scrolls. Europhysics Letters, 2004, 65, 323-329.	0.7	14
47	Random blisters on stickers: metrology through defects. Soft Matter, 2010, 6, 5720.	1.2	14
48	Washing wedges: capillary instability in a gradient of confinement. Journal of Fluid Mechanics, 2016, 790, 619-633.	1.4	13
49	Cracks in bursting soap films. Journal of Fluid Mechanics, 2015, 778, 1-4.	1.4	12
50	Chiral Helices Formation by Self-Assembled Molecules on Semiconductor Flexible Substrates. ACS Nano, 2022, 16, 2901-2909.	7.3	12
51	Marangoni bursting: Evaporation-induced emulsification of a two-component droplet. Physical Review Fluids, 2018, 3, .	1.0	10
52	Geometry and mechanics of inextensible curvilinear balloons. Journal of the Mechanics and Physics of Solids, 2020, 143, 104068.	2.3	8
53	Let's twist again: elasto-capillary assembly of parallel ribbons. Soft Matter, 2016, 12, 7186-7194.	1.2	7
54	Experimental investigation of liquid films in gravity-driven flows with a simple visualization technique. Experiments in Fluids, 2013, 54, 1.	1.1	5

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55	Elastocapillary adhesion of a soft cap on a rigid sphere. <i>Soft Matter</i> , 2020, 16, 1961-1966.	1.2	5
56	Self-similar etching. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 247-249.	5.0	3
57	Modulation du mouillage par des microtextures. <i>Houille Blanche</i> , 2003, 89, 21-24.	0.3	3
58	Stretch-Induced Bending of Soft Ribbed Strips. <i>Physical Review Letters</i> , 2021, 127, 168002.	2.9	2
59	Friction of a sphere rolling down a granular slope. <i>Europhysics Letters</i> , 2018, 123, 54005.	0.7	1
60	Guided tearing: The ruler test. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
61	Three Attempts on Dry Wetting. <i>Fluid Mechanics and Its Applications</i> , 2000, , 195-203.	0.1	0
62	Poils mouillÃ©s : une expÃ©rience de recherche et de partage de savoirs... Ã hÃ©risser les cheveux. , 2013, , 38-38.	0.1	0
63	Rupture et dÃ©lamination de films minces. , 2016, , 26-29.	0.1	0
64	Fragmentation de MarangoniÂ: les gouttes qui sâ€™Ã©clatent. , 2018, , 32-35.	0.1	0