Jacco H Snoeijer

List of Publications by Year
in descending order

72 papers	3,812 citations	159585 30 h-index	123424 61 g-index
75 all docs	75 docs citations	75 times ranked	3692 citing authors

#	Article	IF	Citations
1	Moving Contact Lines: Scales, Regimes, and Dynamical Transitions. Annual Review of Fluid Mechanics, 2013, 45, 269-292.	25.0	613
2	Order-to-Disorder Transition in Ring-Shaped Colloidal Stains. Physical Review Letters, 2011, 107, 085502.	7.8	339
3	Origin of line tension for a Lennard-Jones nanodroplet. Physics of Fluids, 2011, 23, .	4.0	208
4	Maximal Air Bubble Entrainment at Liquid-Drop Impact. Physical Review Letters, 2012, 109, 264501.	7.8	172
5	Contact Angles on a Soft Solid: From Youngâ€™s Law to Neumannâ€™s Law. Physical Review Letters, 2012, 109, 236101.	7.8	156
6	Why is surface tension a force parallel to the interface?. American Journal of Physics, 2011, 79, 999-1008.	0.7	149
7	Breakup of diminutive Rayleigh jets. Physics of Fluids, 2010, 22, .	4.0	147
8	Statics and Dynamics of Soft Wetting. Annual Review of Fluid Mechanics, 2020, 52, 285-308.	25.0	140
9	Building microscopic soccer balls with evaporating colloidal fakir drops. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16455-16458.	7.1	113
10	Capillary Pressure and Contact Line Force on a Soft Solid. Physical Review Letters, 2012, 108, 094301.	7.8	96
11	Liquid drops attract or repel by the inverted Cheerios effect. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7403-7407.	7.1	95
12	Elastic deformation due to tangential capillary forces. Physics of Fluids, 2011, 23, .	4.0	81
13	Solid capillarity: when and how does surface tension deform soft solids?. Soft Matter, 2016, 12, 2993-2996.	2.7	77
14	Drop Shaping by Laser-Pulse Impact. Physical Review Applied, 2015, 3, .	3.8	76
15	The force network ensemble for granular packings. Soft Matter, 2010, 6, 2908.	2.7	67
16	Elasto-capillarity at the nanoscale: on the coupling between elasticity and surface energy in soft solids. Soft Matter, 2013, 9, 8494.	2.7	66
17	Stokes flow near the contact line of an evaporating drop. Journal of Fluid Mechanics, 2012, 709, 69-84.	3.4	58
18	Drop deformation by laser-pulse impact. Journal of Fluid Mechanics, 2016, 794, 676-699.	3.4	51

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19	Lubrication of soft viscoelastic solids. Journal of Fluid Mechanics, 2016, 799, 433-447.	3.4	50
20	Universal mechanism for air entrainment duringÂliquid impact. Journal of Fluid Mechanics, 2016, 789, 708-725.	3.4	49
21	Soft particles at a fluid interface. Soft Matter, 2016, 12, 1062-1073.	2.7	46
22	Asymptotic analysis of the dewetting rim. Physical Review E, 2010, 82, 056314.	2.1	42
23	Solidification of liquid metal drops duringÂimpact. Journal of Fluid Mechanics, 2020, 883, .	3.4	40
24	Paradox of Contact Angle Selection on Stretched Soft Solids. Physical Review Letters, 2018, 121, 068003.	7.8	38
25	Contact line arrest in solidifying spreading drops. Physical Review Fluids, 2017, 2, .	2.5	37
26	Oblique drop impact onto a deep liquid pool. Physical Review Fluids, 2017, 2, .	2.5	36
27	Theory of the forced wetting transition. Physics of Fluids, 2012, 24, .	4.0	35
28	The relationship between viscoelasticity and elasticity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200419.	2.1	31
29	On the shape of giant soap bubbles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2515-2519.	7.1	27
30	Equilibrium Contact Angle and Adsorption Layer Properties with Surfactants. Langmuir, 2018, 34, 7210-7221.	3.5	24
31	Impact of a high-speed train of microdrops on a liquid pool. Journal of Fluid Mechanics, 2016, 792, 850-868.	3.4	22
32	Surface tension regularizes the crack singularity of adhesion. Soft Matter, 2016, 12, 4463-4471.	2.7	22
33	Self-Similar Liquid Lens Coalescence. Physical Review Letters, 2020, 124, 194502.	7.8	22
34	Effect of Disjoining Pressure on Surface Nanobubbles. Langmuir, 2016, 32, 11188-11196.	3.5	21
35	Wetting of Polymer Brushes by Polymeric Nanodroplets. Macromolecules, 2019, 52, 2015-2020.	4.8	20
36	When Elasticity Affects Drop Coalescence. Physical Review Letters, 2022, 128, 028004.	7.8	20

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37	Size-Dependent Submerging of Nanoparticles in Polymer Melts: Effect of Line Tension. Macromolecules, 2018, 51, 2411-2417.	4.8	19
38	Regimes of soft lubrication. Journal of Fluid Mechanics, 2021, 915, .	3.4	19
39	Asymptotic theory for a Leidenfrost drop on a liquid pool. Journal of Fluid Mechanics, 2019, 863, 1157-1189.	3.4	18
40	Maximum speed of dewetting on a fiber. Physics of Fluids, 2011, 23, .	4.0	17
41	Droplet deformation by short laser-induced pressure pulses. Journal of Fluid Mechanics, 2017, 828, 374-394.	3.4	17
42	Droplets Sit and Slide Anisotropically on Soft, Stretched Substrates. Physical Review Letters, 2021, 126, 158004.	7.8	17
43	Initial surface deformations during impact on a liquid pool. Journal of Fluid Mechanics, 2015, 771, 503-519.	3.4	16
44	Capillarity of soft amorphous solids: A microscopic model for surface stress. Physical Review E, 2014, 89, 042408.	2.1	15
45	Peeling an elastic film from a soft viscoelastic adhesive: experiments and scaling laws. Soft Matter, 2019, 15, 770-778.	2.7	15
46	Coxâ€"Voinov theory with slip. Journal of Fluid Mechanics, 2020, 900, .	3.4	15
47	The role of entropy in wetting of polymer brushes. Soft Matter, 2021, 17, 1368-1375.	2.7	15
48	Capillary orbits. Nature Communications, 2019, 10, 3947.	12.8	14
49	Desorption energy of soft particles from a fluid interface. Soft Matter, 2020, 16, 8655-8666.	2.7	14
50	Deformation and relaxation of viscous thin films under bouncing drops. Journal of Fluid Mechanics, 2021, 920, .	3.4	14
51	The retraction of jetted slender viscoelastic liquid filaments. Journal of Fluid Mechanics, 2021, 929, .	3.4	13
52	Gradient-dynamics model for liquid drops on elastic substrates. Soft Matter, 2021, 17, 10359-10375.	2.7	13
53	Soft electrowetting. Soft Matter, 2019, 15, 6469-6475.	2.7	12
54	Capillary ripples in thin viscous films. Journal of Fluid Mechanics, 2019, 880, 430-440.	3.4	12

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55	Dynamic drying transition via free-surface cusps. Journal of Fluid Mechanics, 2019, 858, 760-786.	3.4	12
56	Wetting of Two-Component Drops: Marangoni Contraction Versus Autophobing. Langmuir, 2021, 37, 3605-3611.	3.5	12
57	Stokes flow in a drop evaporating from a liquid subphase. Physics of Fluids, 2013, 25, 102102.	4.0	10
58	Pinning-Induced Folding-Unfolding Asymmetry in Adhesive Creases. Physical Review Letters, 2021, 127, 028001.	7.8	10
59	Analogies between elastic and capillary interfaces. Physical Review Fluids, 2016, 1, .	2.5	10
60	Asymmetric coalescence of two droplets with different surface tensions is caused by capillary waves. Physical Review Fluids, 2021, 6, .	2.5	9
61	Bacterial Footprints in Elastic Pillared Microstructures. ACS Applied Bio Materials, 2018, 1, 1294-1300.	4.6	8
62	Onset of Elasto-capillary Bundling of Micropillar Arrays: A Direct Visualization. Langmuir, 2020, 36, 11581-11588.	3.5	8
63	Non-axisymmetric elastohydrodynamic solid-liquid-solid dewetting: Experiments and numerical modelling. European Physical Journal E, 2020, 43, 2.	1.6	8
64	A flexible rheometer design to measure the visco-elastic response of soft solids over a wide range of frequency. Review of Scientific Instruments, 2019, 90, 023906.	1.3	7
65	Initial solidification dynamics of spreading droplets. Physical Review Fluids, 2021, 6, .	2.5	7
66	Soft wetting: Models based on energy dissipation or on force balance are equivalent. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7233.	7.1	6
67	Phase diagram of vertically vibrated dense suspensions. Physics of Fluids, 2014, 26, 113302.	4.0	5
68	Inverse leidenfrost drop manipulation using menisci. Soft Matter, 2020, 16, 4043-4048.	2.7	4
69	Escape dynamics of liquid droplets confined between soft interfaces: non-inertial coalescence cascades. Soft Matter, 2020, 16, 1866-1876.	2.7	4
70	Theory for the coalescence of viscous lenses. Journal of Fluid Mechanics, 2021, 928, .	3.4	1
71	Interface deformations due to counter-rotating vortices: Viscous versus elastic media. Physical Review E, 2015, 91, 033001.	2.1	0
72	Mechanics and Energetics of Electromembranes. Soft Robotics, 2020, 7, 675-687.	8.0	0