David QuÃ©rÃ©

List of Publications by Year
in descending order

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114 papers	18,081 citations	36203 51 h-index	20307 116 g-index
117 all docs	117 docs citations	117 times ranked	12349 citing authors

#	Article	IF	Citations
1	Superhydrophobic states. Nature Materials, 2003, 2, 457-460.	13.3	2,913
2	Wetting of textured surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 41-46.	2.3	1,167
3	Non-sticking drops. Reports on Progress in Physics, 2005, 68, 2495-2532.	8.1	1,114
4	Liquid marbles. Nature, 2001, 411, 924-927.	13.7	971
5	Contact time of a bouncing drop. Nature, 2002, 417, 811-811.	13.7	959
6	Maximal deformation of an impacting drop. Journal of Fluid Mechanics, 2004, 517, 199-208.	1.4	867
7	On water repellency. Soft Matter, 2005, 1, 55.	1.2	708
8	Rough ideas on wetting. Physica A: Statistical Mechanics and Its Applications, 2002, 313, 32-46.	1.2	470
9	Leidenfrost drops. Physics of Fluids, 2003, 15, 1632.	1.6	454
10	FLUID COATING ON A FIBER. Annual Review of Fluid Mechanics, 1999, 31, 347-384.	10.8	435
11	Leidenfrost Dynamics. Annual Review of Fluid Mechanics, 2013, 45, 197-215.	10.8	422
12	Delayed Freezing on Water Repellent Materials. Langmuir, 2009, 25, 7214-7216.	1.6	413
13	Drops on a conical wire. Journal of Fluid Mechanics, 2004, 510, 29-45.	1.4	400
14	Surface Tension Transport of Prey by Feeding Shorebirds: The Capillary Ratchet. Science, 2008, 320, 931-934.	6.0	399
15	Water impacting on superhydrophobic macrotextures. Nature Communications, 2015, 6, 8001.	5.8	331
16	Spreading of nonvolatile liquids in a continuum picture. Langmuir, 1991, 7, 335-338.	1.6	325
17	Leidenfrost on a ratchet. Nature Physics, 2011, 7, 395-398.	6.5	301
18	Antifogging abilities of model nanotextures. Nature Materials, 2017, 16, 658-663.	13.3	288

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19	Fakir droplets. Nature Materials, 2002, 1, 14-15.	13.3	247
20	On the elasticity of an inertial liquid shock. Journal of Fluid Mechanics, 2006, 554, 47.	1.4	228
21	Self-removal of condensed water on the legs of water striders. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9247-9252.	3.3	194
22	Bioinspired Ribbed Nanoneedles with Robust Superhydrophobicity. Advanced Functional Materials, 2010, 20, 656-662.	7.8	182
23	Contact Angle Hysteresis Generated by Strong Dilute Defects. Journal of Physical Chemistry B, 2009, 113, 3906-3909.	1.2	171
24	Drops at Rest on a Tilted Plane. Langmuir, 1998, 14, 2213-2216.	1.6	165
25	Tip-induced flipping of droplets on Janus pillars: From local reconfiguration to global transport. Science Advances, 2020, 6, eabb4540.	4.7	164
26	A universal law for capillary rise in corners. Journal of Fluid Mechanics, 2011, 666, 146-154.	1.4	161
27	Non-adhesive lotus and other hydrophobic materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1539-1556.	1.6	144
28	Leidenfrost wheels. Nature Physics, 2018, 14, 1188-1192.	6.5	144
29	Dynamical superhydrophobicity. Faraday Discussions, 2010, 146, 19.	1.6	142
30	Capturing drops with a thin fiber. Journal of Colloid and Interface Science, 2004, 279, 192-197.	5.0	128
31	Self-propelling slugs. Journal of Fluid Mechanics, 2002, 467, 101-127.	1.4	126
32	Inhibiting the Leidenfrost effect above 1,000â€‰Â°C for sustained thermal cooling. Nature, 2022, 601, 568-572.	13.7	120
33	From coffee rings to coffee eyes. Soft Matter, 2015, 11, 4669-4673.	1.2	110
34	Drop friction on liquid-infused materials. Soft Matter, 2017, 13, 6981-6987.	1.2	110
35	The force of impacting rain. Soft Matter, 2014, 10, 4929-4934.	1.2	100
36	Rise of Liquids and Bubbles in Angular Capillary Tubes. Journal of Colloid and Interface Science, 2002, 247, 162-166.	5.0	97

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37	Imbibition of a Fabric. Journal of Colloid and Interface Science, 1995, 173, 319-327.	5.0	94
38	Monostable superrepellent materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3387-3392.	3.3	93
39	Onset of menisci. Journal of Fluid Mechanics, 2002, 460, 131-149.	1.4	90
40	Rebounds in a Capillary Tube. Langmuir, 1999, 15, 3679-3682.	1.6	85
41	Coating of a textured solid. Journal of Fluid Mechanics, 2011, 669, 55-63.	1.4	84
42	Water ring-bouncing on repellent singularities. Soft Matter, 2018, 14, 2227-2233.	1.2	79
43	Falling Slugs. Journal of Colloid and Interface Science, 2001, 243, 262-264.	5.0	63
44	Thickening Factor in Marangoni Coating. Langmuir, 1997, 13, 2911-2916.	1.6	62
45	Inertial coating of a fibre. Journal of Fluid Mechanics, 1996, 311, 219.	1.4	60
46	Drops impacting a sieve. Journal of Colloid and Interface Science, 2003, 263, 244-249.	5.0	57
47	Fluid Coating from a Polymer Solution. Langmuir, 1998, 14, 1911-1914.	1.6	55
48	Droplet fragmentation using a mesh. Physical Review Fluids, 2018, 3, .	1.0	55
49	Trapping Leidenfrost Drops with Crenelations. Physical Review Letters, 2011, 107, 114503.	2.9	54
50	Model droplets. Nature Materials, 2004, 3, 79-80.	13.3	53
51	Surfing the hot spot. Nature Materials, 2006, 5, 429-430.	13.3	52
52	The cold Leidenfrost regime. Science Advances, 2019, 5, eaaw0304.	4.7	52
53	How merging droplets jump off a superhydrophobic surface: Measurements and model. Physical Review Fluids, 2017, 2, .	1.0	52
54	Fracture of a Viscous Liquid. Physical Review Letters, 2003, 90, 184501.	2.9	51

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55	Propulsion on a superhydrophobic ratchet. Scientific Reports, 2014, 4, 5280.	1.6	51
56	Air Entrainment by a Viscous Jet Plunging into a Bath. Physical Review Letters, 2004, 93, 254501.	2.9	49
57	Self-propelling uneven Leidenfrost solids. Physics of Fluids, 2013, 25, .	1.6	46
58	Propulsion mechanisms for Leidenfrost solids on ratchets. Physical Review E, 2013, 87, 021001.	0.8	44
59	The meniscus on a fibre. Advances in Colloid and Interface Science, 1994, 48, 141-150.	7.0	41
60	A laboratory model of splashâ€form tektites. Meteoritics and Planetary Science, 2003, 38, 1331-1340.	0.7	41
61	Drops impacting inclined fibers. Journal of Colloid and Interface Science, 2009, 334, 70-74.	5.0	40
62	Superhydrophobic frictions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8220-8223.	3.3	40
63	Universality of friction laws on liquid-infused materials. Physical Review Fluids, 2020, 5, .	1.0	38
64	Two recipes for repelling hot water. Nature Communications, 2019, 10, 1410.	5.8	37
65	Wetting of fibers : theory and experiments. Revue De Physique AppliquÃ©e, 1988, 23, 1023-1030.	0.4	36
66	Gravity and Inertia Effects in Plate Coating. Journal of Colloid and Interface Science, 1998, 203, 278-285.	5.0	36
67	On the Landauâ^'Levich Transition. Langmuir, 2007, 23, 10116-10122.	1.6	35
68	Particles accelerate the detachment of viscous liquids. Rheologica Acta, 2013, 52, 403-412.	1.1	35
69	Capillary muscle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6301-6306.	3.3	35
70	The effects of gravity on the capillary instability in tubes. Journal of Fluid Mechanics, 2006, 556, 217.	1.4	33
71	Spreading of Bubbles after Contacting the Lower Side of an Aerophilic Slide Immersed in Water. Physical Review Letters, 2016, 117, 094501.	2.9	33
72	Unique and universal dew-repellency of nanocones. Nature Communications, 2021, 12, 3458.	5.8	33

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73	On a tweezer for droplets. Advances in Colloid and Interface Science, 2010, 161, 10-14.	7.0	32
74	On the shape of giant soap bubbles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2515-2519.	3.3	27
75	Impact on Everest. Nature, 2005, 435, 1168-1169.	13.7	26
76	Magnetic control of Leidenfrost drops. Physical Review E, 2012, 85, 056311.	0.8	26
77	Wave drag on floating bodies. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15064-15068.	3.3	25
78	Drop trampoline. Europhysics Letters, 2018, 124, 24003.	0.7	22
79	Ballistics of self-jumping microdroplets. Physical Review Fluids, 2019, 4, .	1.0	22
80	Formation of soap films from polymer solutions. Langmuir, 1992, 8, 3161-3167.	1.6	21
81	Viscous bouncing. Soft Matter, 2020, 16, 7270-7273.	1.2	21
82	Inertial collapse of liquid rings. Journal of Fluid Mechanics, 2013, 717, .	1.4	20
83	Capillary Extraction. Langmuir, 2011, 27, 9396-9402.	1.6	18
84	Soft, elastic, water-repellent materials. Applied Physics Letters, 2017, 110, .	1.5	17
85	Self-propelling droplets on fibres subject to a crosswind. Nature Physics, 2019, 15, 1027-1032.	6.5	17
86	Detergency in a tube. Soft Matter, 2011, 7, 7498.	1.2	16
87	The dual role of viscosity in capillary rise. Soft Matter, 2019, 15, 2757-2761.	1.2	16
88	Shuttlecock dynamics. Procedia Engineering, 2012, 34, 176-181.	1.2	15
89	Self-excitation of Leidenfrost drops and consequences on their stability. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
90	Bouncing Bubbles. Journal of Adhesion, 2007, 83, 897-906.	1.8	13

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91	Flexible scraping of viscous fluids. Journal of Fluid Mechanics, 2013, 715, 424-435.	1.4	13
92	Explosions at the water surface. Journal of Fluid Mechanics, 2014, 752, 123-139.	1.4	13
93	Leidenfrost becomes a fakir. Nature Materials, 2012, 11, 915-916.	13.3	12
94	Friction properties of superhydrophobic ridges. Journal of Fluid Mechanics, 2020, 890, .	1.4	10
95	Thermophobic Leidenfrost. Soft Matter, 2021, 17, 8805-8809.	1.2	9
96	Vita brevis of antibubbles. Europhysics News, 2006, 37, 24-25.	0.1	8
97	Strongly Metastable Assemblies of Particles at Liquid Interfaces. Langmuir, 2014, 30, 14712-14716.	1.6	8
98	Air-levitated platelets: from take off to motion. Journal of Fluid Mechanics, 2017, 814, 535-546.	1.4	7
99	Droplets impaling on a cone. Physical Review Fluids, 2020, 5, .	1.0	7
100	Football curves. Journal of Fluids and Structures, 2011, 27, 659-667.	1.5	6
101	Capillary descent. Soft Matter, 2018, 14, 5364-5368.	1.2	6
102	Symmetry breaking in Leidenfrost flows. Physical Review Fluids, 2018, 3, .	1.0	6
103	Successive instabilities of confined Leidenfrost puddles. Europhysics Letters, 2015, 112, 26002.	0.7	5
104	Water colliding with oil. Journal of Fluid Mechanics, 2012, 702, 1-4.	1.4	4
105	Shooting in a foam. Soft Matter, 2014, 10, 6696-6704.	1.2	4
106	Liquid filmification from menisci. Europhysics Letters, 2015, 112, 16002.	0.7	4
107	Tightrope bubbles. Applied Physics Letters, 2019, 114, .	1.5	4
108	Leidenfrost flows: instabilities and symmetry breakings. Flow, 2022, 2, .	1.0	4

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109	Self-similar etching. Journal of Colloid and Interface Science, 2004, 270, 247-249.	5.0	3
110	Path instabilities of streamlined bodies. Journal of Fluid Mechanics, 2019, 864, 286-302.	1.4	3
111	Suck-Back Impact on Fluid Behavior at Filling Needle Tip. Journal of Pharmaceutical Sciences, 2020, 109, 1123-1129.	1.6	3
112	Droplet hurdles race. Applied Physics Letters, 2021, 118, .	1.5	3
113	Air-propelled, herringbone-textured platelets. Physical Review Fluids, 2018, 3, .	1.0	2
114	La calÃ©faction. , 2013, , 12-16.	0.1	1