

Christophe Clanet

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

7,661
citations

87888
38
h-index

49909
87
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91
all docs

91
docs citations

91
times ranked

5254
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophobic Leidenfrost. <i>Soft Matter</i> , 2021, 17, 8805-8809.	2.7	9
2	Physics of road cycling and the three jerseys problem. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	3.4	4
3	Droplet hurdles race. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	3
4	Self-excitation of Leidenfrost drops and consequences on their stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
5	Cycling speeds in crosswinds. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
6	Coordination changes in front-crawl swimming. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200071.	2.1	4
7	Friction properties of superhydrophobic ridges. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	3.4	10
8	The Hydrodynamics of High Diving. <i>Proceedings (mdpi)</i> , 2020, 49, 73.	0.2	3
9	Viscous bouncing. <i>Soft Matter</i> , 2020, 16, 7270-7273.	2.7	21
10	Hysteretic wave drag in shallow water. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	6
11	Self-propelling droplets on fibres subject to a crosswind. <i>Nature Physics</i> , 2019, 15, 1027-1032.	16.7	17
12	Wave drag on asymmetric bodies. <i>Journal of Fluid Mechanics</i> , 2019, 878, 147-168.	3.4	7
13	Tightrope bubbles. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	4
14	Jumping dynamics of aquatic animals. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190014.	3.4	26
15	Superhydrophobic frictions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8220-8223.	7.1	40
16	Path instabilities of streamlined bodies. <i>Journal of Fluid Mechanics</i> , 2019, 864, 286-302.	3.4	3
17	How localized force spreads on elastic contour feathers. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190267.	3.4	7
18	Ballistics of self-jumping microdroplets. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	22

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19	Water ring-bouncing on repellent singularities. Soft Matter, 2018, 14, 2227-2233.	2.7	79
20	Drop trampoline. Europhysics Letters, 2018, 124, 24003.	2.0	22
21	Leidenfrost wheels. Nature Physics, 2018, 14, 1188-1192.	16.7	144
22	Capillary descent. Soft Matter, 2018, 14, 5364-5368.	2.7	6
23	Thin or bulky: Optimal aspect ratios for ship hulls. Physical Review Fluids, 2018, 3, .	2.5	9
24	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
25	Antifogging abilities of model nanotextures. Nature Materials, 2017, 16, 658-663.	27.5	288
26	Air-levitated platelets: from take off to motion. Journal of Fluid Mechanics, 2017, 814, 535-546.	3.4	7
27	Drop friction on liquid-infused materials. Soft Matter, 2017, 13, 6981-6987.	2.7	110
28	Soft, elastic, water-repellent materials. Applied Physics Letters, 2017, 110, .	3.3	17
29	How merging droplets jump off a superhydrophobic surface: Measurements and model. Physical Review Fluids, 2017, 2, .	2.5	52
30	Reply to "Comment on "Critical wind speed at which trees break"™". Physical Review E, 2016, 94, 067002.	2.1	0
31	Physics of ball sports. Europhysics News, 2016, 47, 13-16.	0.3	7
32	Critical wind speed at which trees break. Physical Review E, 2016, 93, 023001.	2.1	34
33	Air entrainment in hairy surfaces. Physical Review Fluids, 2016, 1, .	2.5	15
34	Successive instabilities of confined Leidenfrost puddles. Europhysics Letters, 2015, 112, 26002.	2.0	5
35	Weightlifting and the actomyosin cycle. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150473.	2.1	3
36	Capillary muscle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6301-6306.	7.1	35

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37	Sports Ballistics. Annual Review of Fluid Mechanics, 2015, 47, 455-478.	25.0	25
38	Explosions at the water surface. Journal of Fluid Mechanics, 2014, 752, 123-139.	3.4	13
39	Capillary instability on an elastic helix. Soft Matter, 2014, 10, 3225.	2.7	10
40	The force of impacting rain. Soft Matter, 2014, 10, 4929-4934.	2.7	100
41	Shooting in a foam. Soft Matter, 2014, 10, 6696-6704.	2.7	4
42	Flexible scraping of viscous fluids. Journal of Fluid Mechanics, 2013, 715, 424-435.	3.4	13
43	Wicking in a Powder. Langmuir, 2013, 29, 3636-3644.	3.5	31
44	Capillary Extraction. Langmuir, 2011, 27, 9396-9402.	3.5	18
45	Detergency in a tube. Soft Matter, 2011, 7, 7498.	2.7	16
46	Viscous mechanism for Leidenfrost propulsion on a ratchet. Europhysics Letters, 2011, 96, 58001.	2.0	87
47	Plunging cavities. Journal of Fluid Mechanics, 2011, 680, 1-4.	3.4	5
48	Coating of a textured solid. Journal of Fluid Mechanics, 2011, 669, 55-63.	3.4	84
49	Drainage on a rough surface. Europhysics Letters, 2011, 94, 16002.	2.0	17
50	Leidenfrost on a ratchet. Nature Physics, 2011, 7, 395-398.	16.7	301
51	Trapping Leidenfrost Drops with Crenelations. Physical Review Letters, 2011, 107, 114503.	7.8	54
52	Football curves. Journal of Fluids and Structures, 2011, 27, 659-667.	3.4	6
53	Landau's "Levich menisci. Journal of Colloid and Interface Science, 2011, 354, 359-363.	9.4	84
54	A universal law for capillary rise in corners. Journal of Fluid Mechanics, 2011, 666, 146-154.	3.4	161

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55	Wave drag on floating bodies. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15064-15068.	7.1	25
56	A fluid mechanical view on abdominal aortic aneurysms. Journal of Fluid Mechanics, 2010, 664, 5-32.	3.4	11
57	The spinning ball spiral. New Journal of Physics, 2010, 12, 093004.	2.9	23
58	Dynamical superhydrophobicity. Faraday Discussions, 2010, 146, 19.	3.2	142
59	Grabbing water. Soft Matter, 2010, 6, 5705.	2.7	36
60	Drops impacting inclined fibers. Journal of Colloid and Interface Science, 2009, 334, 70-74.	9.4	40
61	Osmotically driven pipe flows and their relation to sugar transport in plants. Journal of Fluid Mechanics, 2009, 636, 371-396.	3.4	45
62	Shapes of hanging viscous filaments. Europhysics Letters, 2008, 84, 56004.	2.0	8
63	Waterbells and Liquid Sheets. Annual Review of Fluid Mechanics, 2007, 39, 469-496.	25.0	47
64	Dynamics of transient cavities. Journal of Fluid Mechanics, 2007, 591, 1-19.	3.4	194
65	Atomization of undulating liquid sheets. Journal of Fluid Mechanics, 2007, 585, 421-456.	3.4	86
66	Making a splash with water repellency. Nature Physics, 2007, 3, 180-183.	16.7	335
67	Bubble capture by a propeller. Journal of Fluid Mechanics, 2006, 560, 311.	3.4	1
68	The effects of gravity on the capillary instability in tubes. Journal of Fluid Mechanics, 2006, 556, 217.	3.4	33
69	On the elasticity of an inertial liquid shock. Journal of Fluid Mechanics, 2006, 554, 47.	3.4	228
70	Skipping stones. Journal of Fluid Mechanics, 2005, 543, 137.	3.4	65
71	Secrets of successful stone-skipping. Nature, 2004, 427, 29-29.	27.8	85
72	Capturing drops with a thin fiber. Journal of Colloid and Interface Science, 2004, 279, 192-197.	9.4	128

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73	On the motion of bubbles in vertical tubes of arbitrary cross-sections: some complements to the Dumitrescuâ€Taylor problem. Journal of Fluid Mechanics, 2004, 519, 359-376.	3.4	75
74	Maximal deformation of an impacting drop. Journal of Fluid Mechanics, 2004, 517, 199-208.	3.4	867
75	On the glug-glug of ideal bottles. Journal of Fluid Mechanics, 2004, 510, 145-168.	3.4	23
76	Leidenfrost drops. Physics of Fluids, 2003, 15, 1632.	4.0	454
77	Pyramidal and toroidal water drops after impact on a solid surface. Journal of Fluid Mechanics, 2003, 484, 69-83.	3.4	183
78	Water spring: A model for bouncing drops. Europhysics Letters, 2003, 62, 237-243.	2.0	227
79	Life of a flapping liquid sheet. Journal of Fluid Mechanics, 2002, 462, 341-363.	3.4	124
80	Life of a smooth liquid sheet. Journal of Fluid Mechanics, 2002, 462, 307-340.	3.4	95
81	Onset of menisci. Journal of Fluid Mechanics, 2002, 460, 131-149.	3.4	90
82	Contact time of a bouncing drop. Nature, 2002, 417, 811-811.	27.8	959
83	Dynamics and stability of water bells. Journal of Fluid Mechanics, 2001, 430, 111-147.	3.4	44
84	Transient Surface Tension of an Expanding Liquid Sheet. Journal of Colloid and Interface Science, 2000, 230, 29-40.	9.4	22
85	Stability of Water Bells Generated by Jet Impacts on a Disk. Physical Review Letters, 2000, 85, 5106-5109.	7.8	10
86	Transition from dripping to jetting. Journal of Fluid Mechanics, 1999, 383, 307-326.	3.4	279
87	Primary acoustic instability of flames propagating in tubes: cases of spray and premixed gas combustion. Journal of Fluid Mechanics, 1999, 385, 157-197.	3.4	72
88	First Experimental Study of the Darrieus-Landau Instability. Physical Review Letters, 1998, 80, 3867-3870.	7.8	124
89	On large-amplitude pulsating fountains. Journal of Fluid Mechanics, 1998, 366, 333-350.	3.4	19
90	On the â€œtulip flameâ€phenomenon. Combustion and Flame, 1996, 105, 225-238.	5.2	368