David Qur

List of Publications by Year in Descending Order

109 papers	14,844 citations	47 h-index	117 g-index
117 ext. papers	16,451 ext. citations	9.2 avg, IF	7.09 L-index

#	Paper	IF	Citations
109	Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling.. *Nature*, **2022**, 601, 568-572	50.4	18
108	Droplet hurdles race. *Applied Physics Letters*, **2021**, 118, 171601	3.4	2
107	Unique and universal dew-repellency of nanocones. *Nature Communications*, **2021**, 12, 3458	17.4	5
106	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,	11.5	4
105	Thermophobic Leidenfrost. *Soft Matter*, **2021**, 17, 8805-8809	3.6	1
104	Friction properties of superhydrophobic ridges. *Journal of Fluid Mechanics*, **2020**, 890,	3.7	8
103	Tip-induced flipping of droplets on Janus pillars: From local reconfiguration to global transport. *Science Advances*, **2020**, 6, eabb4540	14.3	69
102	Viscous bouncing. *Soft Matter*, **2020**, 16, 7270-7273	3.6	5
101	Universality of friction laws on liquid-infused materials. *Physical Review Fluids*, **2020**, 5,	2.8	22
100	Droplets impaling on a cone. *Physical Review Fluids*, **2020**, 5,	2.8	3
99	Suck-Back Impact on Fluid Behavior at Filling Needle Tip. *Journal of Pharmaceutical Sciences*, **2020**, 109, 1123-1129	3.9	1
98	The dual role of viscosity in capillary rise. *Soft Matter*, **2019**, 15, 2757-2761	3.6	11
97	Tightrope bubbles. *Applied Physics Letters*, **2019**, 114, 233704	3.4	2
96	Two recipes for repelling hot water. *Nature Communications*, **2019**, 10, 1410	17.4	22
95	Superhydrophobic frictions. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8220-8223	11.5	29
94	Path instabilities of streamlined bodies. *Journal of Fluid Mechanics*, **2019**, 864, 286-302	3.7	1
93	Self-propelling droplets on fibres subject to a crosswind. *Nature Physics*, **2019**, 15, 1027-1032	16.2	3

92	The cold Leidenfrost regime. *Science Advances*, **2019**, 5, eaaw0304	14.3	33
91	Ballistics of self-jumping microdroplets. *Physical Review Fluids*, **2019**, 4,	2.8	12
90	Water ring-bouncing on repellent singularities. *Soft Matter*, **2018**, 14, 2227-2233	3.6	44
89	Droplet fragmentation using a mesh. *Physical Review Fluids*, **2018**, 3,	2.8	31
88	Symmetry breaking in Leidenfrost flows. *Physical Review Fluids*, **2018**, 3,	2.8	2
87	Air-propelled, herringbone-textured platelets. *Physical Review Fluids*, **2018**, 3,	2.8	2
86	Drop trampoline. *Europhysics Letters*, **2018**, 124, 24003	1.6	12
85	Leidenfrost wheels. *Nature Physics*, **2018**, 14, 1188-1192	16.2	94
84	Capillary descent. *Soft Matter*, **2018**, 14, 5364-5368	3.6	4
83	On the shape of giant soap bubbles. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 2515-2519	11.5	18
82	Monostable superrepellent materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3387-3392	11.5	67
81	Antifogging abilities of model nanotextures. *Nature Materials*, **2017**, 16, 658-663	27	195
80	Air-levitated platelets: from take off to motion. *Journal of Fluid Mechanics*, **2017**, 814, 535-546	3.7	6
79	Drop friction on liquid-infused materials. *Soft Matter*, **2017**, 13, 6981-6987	3.6	73
78	Soft, elastic, water-repellent materials. *Applied Physics Letters*, **2017**, 110, 251605	3.4	12
77	How merging droplets jump off a superhydrophobic surface: Measurements and model. *Physical Review Fluids*, **2017**, 2,	2.8	33
76	Spreading of Bubbles after Contacting the Lower Side of an Aerophilic Slide Immersed in Water. *Physical Review Letters*, **2016**, 117, 094501	7.4	27
75	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, 9247-52	11.5	141

74	Capillary muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6301-6	11.5	16
73	Water impacting on superhydrophobic macrotextures. *Nature Communications*, **2015**, 6, 8001	17.4	225
72	Successive instabilities of confined Leidenfrost puddles. *Europhysics Letters*, **2015**, 112, 26002	1.6	4
71	Liquid filmification from menisci. *Europhysics Letters*, **2015**, 112, 16002	1.6	3
70	From coffee rings to coffee eyes. *Soft Matter*, **2015**, 11, 4669-73	3.6	78
69	The force of impacting rain. *Soft Matter*, **2014**, 10, 4929-34	3.6	73
68	Shooting in a foam. *Soft Matter*, **2014**, 10, 6696-704	3.6	4
67	Propulsion on a superhydrophobic ratchet. *Scientific Reports*, **2014**, 4, 5280	4.9	42
66	Strongly metastable assemblies of particles at liquid interfaces. *Langmuir*, **2014**, 30, 14712-6	4	7
65	Explosions at the water surface. *Journal of Fluid Mechanics*, **2014**, 752, 123-139	3.7	8
64	Particles accelerate the detachment of viscous liquids. *Rheologica Acta*, **2013**, 52, 403-412	2.3	30
63	Self-propelling uneven Leidenfrost solids. *Physics of Fluids*, **2013**, 25, 051704	4.4	35
62	Flexible scraping of viscous fluids. *Journal of Fluid Mechanics*, **2013**, 715, 424-435	3.7	9
61	Inertial collapse of liquid rings. *Journal of Fluid Mechanics*, **2013**, 717,	3.7	18
60	Propulsion mechanisms for Leidenfrost solids on ratchets. *Physical Review E*, **2013**, 87, 021001	2.4	35
59	Leidenfrost Dynamics. *Annual Review of Fluid Mechanics*, **2013**, 45, 197-215	22	329
58	La calfaction **2013**, 12-16	0.1	0
57	Magnetic control of Leidenfrost drops. *Physical Review E*, **2012**, 85, 056311	2.4	25

56	Shuttlecock dynamics. *Procedia Engineering*, **2012**, 34, 176-181		12
55	Superhydrophobic surfaces: Leidenfrost becomes a fakir. *Nature Materials*, **2012**, 11, 915-6	27	11
54	Water colliding with oil. *Journal of Fluid Mechanics*, **2012**, 702, 1-4	3.7	3
53	Detergency in a tube. *Soft Matter*, **2011**, 7, 7498	3.6	15
52	Coating of a textured solid. *Journal of Fluid Mechanics*, **2011**, 669, 55-63	3.7	61
51	Leidenfrost on a ratchet. *Nature Physics*, **2011**, 7, 395-398	16.2	245
50	Trapping leidenfrost drops with crenelations. *Physical Review Letters*, **2011**, 107, 114503	7.4	50
49	Football curves. *Journal of Fluids and Structures*, **2011**, 27, 659-667	3.1	6
48	Capillary extraction. *Langmuir*, **2011**, 27, 9396-402	4	13
47	A universal law for capillary rise in corners. *Journal of Fluid Mechanics*, **2011**, 666, 146-154	3.7	126
46	Wave drag on floating bodies. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 15064-8	11.5	21
45	Dynamical superhydrophobicity. *Faraday Discussions*, **2010**, 146, 19-33; discussion 79-101, 395-401	3.6	123
44	Bioinspired Ribbed Nanoneedles with Robust Superhydrophobicity. *Advanced Functional Materials*, **2010**, 20, 656-662	15.6	165
43	On a tweezer for droplets. *Advances in Colloid and Interface Science*, **2010**, 161, 10-4	14.3	23
42	Drops impacting inclined fibers. *Journal of Colloid and Interface Science*, **2009**, 334, 70-4	9.3	33
41	Contact angle hysteresis generated by strong dilute defects. *Journal of Physical Chemistry B*, **2009**, 113, 3906-9	3.4	153
40	Delayed freezing on water repellent materials. *Langmuir*, **2009**, 25, 7214-6	4	356
39	Surface tension transport of prey by feeding shorebirds: the capillary ratchet. *Science*, **2008**, 320, 931-4	33.3	312

38	Non-adhesive lotus and other hydrophobic materials. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2008**, 366, 1539-56	3	127
37	On the Landau-Levich transition. *Langmuir*, **2007**, 23, 10116-22	4	32
36	Bouncing Bubbles **2007**, 83, 897-906		12
35	The effects of gravity on the capillary instability in tubes. *Journal of Fluid Mechanics*, **2006**, 556, 217	3.7	30
34	On the elasticity of an inertial liquid shock. *Journal of Fluid Mechanics*, **2006**, 554, 47	3.7	180
33	Vita brevis of antibubbles. *Europhysics News*, **2006**, 37, 24-25	0.2	5
32	Non-sticking drops. *Reports on Progress in Physics*, **2005**, 68, 2495-2532	14.4	988
31	On water repellency. *Soft Matter*, **2005**, 1, 55	3.6	656
30	Air entrainment by a viscous jet plunging into a bath. *Physical Review Letters*, **2004**, 93, 254501	7.4	40
29	Self-similar etching. *Journal of Colloid and Interface Science*, **2004**, 270, 247-9	9.3	3
28	Capturing drops with a thin fiber. *Journal of Colloid and Interface Science*, **2004**, 279, 192-7	9.3	103
27	Maximal deformation of an impacting drop. *Journal of Fluid Mechanics*, **2004**, 517, 199-208	3.7	637
26	Drops on a conical wire. *Journal of Fluid Mechanics*, **2004**, 510, 29-45	3.7	330
25	Leidenfrost drops. *Physics of Fluids*, **2003**, 15, 1632	4.4	377
24	Drops impacting a sieve. *Journal of Colloid and Interface Science*, **2003**, 263, 244-9	9.3	34
23	Superhydrophobic states. *Nature Materials*, **2003**, 2, 457-60	27	2579
22	A laboratory model of splash-form tektites. *Meteoritics and Planetary Science*, **2003**, 38, 1331-1340	2.8	34
21	Fracture of a viscous liquid. *Physical Review Letters*, **2003**, 90, 184501	7.4	37

20	Rise of liquids and bubbles in angular capillary tubes. *Journal of Colloid and Interface Science*, **2002**, 247, 162-6	9.3	81
19	Wetting of textured surfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 206, 41-46	5.1	1053
18	Contact time of a bouncing drop. *Nature*, **2002**, 417, 811	50.4	729
17	Rough ideas on wetting. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 313, 32-46	3.3	424
16	Self-propelling slugs. *Journal of Fluid Mechanics*, **2002**, 467, 101-127	3.7	107
15	Onset of menisci. *Journal of Fluid Mechanics*, **2002**, 460, 131-149	3.7	73
14	Falling Slugs. *Journal of Colloid and Interface Science*, **2001**, 243, 262-264	9.3	58
13	Liquid marbles. *Nature*, **2001**, 411, 924-7	50.4	828
12	Rebounds in a Capillary Tube. *Langmuir*, **1999**, 15, 3679-3682	4	70
11	FLUID COATING ON A FIBER. *Annual Review of Fluid Mechanics*, **1999**, 31, 347-384	22	363
10	Gravity and Inertia Effects in Plate Coating. *Journal of Colloid and Interface Science*, **1998**, 203, 278-85	9.3	29
9	Drops at Rest on a Tilted Plane. *Langmuir*, **1998**, 14, 2213-2216	4	148
8	Fluid Coating from a Polymer Solution. *Langmuir*, **1998**, 14, 1911-1914	4	48
7	Thickening Factor in Marangoni Coating. *Langmuir*, **1997**, 13, 2911-2916	4	56
6	Inertial coating of a fibre. *Journal of Fluid Mechanics*, **1996**, 311, 219	3.7	52
5	Imbibition of a Fabric. *Journal of Colloid and Interface Science*, **1995**, 173, 319-327	9.3	88
4	The meniscus on a fibre. *Advances in Colloid and Interface Science*, **1994**, 48, 141-150	14.3	39
3	Formation of soap films from polymer solutions. *Langmuir*, **1992**, 8, 3161-3167	4	20

2 Spreading of nonvolatile liquids in a continuum picture. *Langmuir*, **1991**, 7, 335-338 4 301

1 Wetting of fibers : theory and experiments. *Revue De Physique Appliqu?*, **1988**, 23, 1023-1030 36