

Longquan Chen

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,624
citations

218677

26
h-index

133252

59
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87
all docs

87
docs citations

87
times ranked

3181
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of robust superhydrophobic surfaces. <i>Nature</i> , 2020, 582, 55-59.	27.8	1,124
2	Surface charge printing for programmed droplet transport. <i>Nature Materials</i> , 2019, 18, 936-941.	27.5	401
3	Impact of viscous droplets on different wettable surfaces: Impact phenomena, the maximum spreading factor, spreading time and post-impact oscillation. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 86-97.	9.4	190
4	A comparative study of droplet impact dynamics on a dual-scaled superhydrophobic surface and lotus leaf. <i>Applied Surface Science</i> , 2011, 257, 8857-8863.	6.1	160
5	Electrowetting " From statics to dynamics. <i>Advances in Colloid and Interface Science</i> , 2014, 210, 2-12.	14.7	146
6	Effects of surface wettability and liquid viscosity on the dynamic wetting of individual drops. <i>Physical Review E</i> , 2014, 90, 022401.	2.1	84
7	Moisture-responsive films of cellulose stearyl esters showing reversible shape transitions. <i>Scientific Reports</i> , 2015, 5, 11011.	3.3	80
8	Inertial to Viscoelastic Transition in Early Drop Spreading on Soft Surfaces. <i>Langmuir</i> , 2013, 29, 1893-1898.	3.5	67
9	Impact of Viscous Droplets on Superamphiphobic Surfaces. <i>Langmuir</i> , 2017, 33, 144-151.	3.5	67
10	Short time wetting dynamics on soft surfaces. <i>Soft Matter</i> , 2011, 7, 9084.	2.7	65
11	Droplet impact on soft viscoelastic surfaces. <i>Physical Review E</i> , 2016, 94, 063117.	2.1	65
12	Transparent Slippery Surfaces Made with Sustainable Porous Cellulose Lauroyl Ester Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6969-6976.	8.0	64
13	Static and dynamic wetting of soft substrates. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 36, 46-57.	7.4	63
14	Bouncing droplets on nonsuperhydrophobic surfaces. <i>Physical Review E</i> , 2010, 82, 016308.	2.1	61
15	Superhydrophobic surfaces fabricated from nano- and microstructured cellulose stearyl esters. <i>Chemical Communications</i> , 2013, 49, 4962.	4.1	51
16	Impact Dynamics of Aqueous Polymer Droplets on Superhydrophobic Surfaces. <i>Macromolecules</i> , 2018, 51, 7817-7827.	4.8	50
17	Submillimeter-Sized Bubble Entrapment and a High-Speed Jet Emission during Droplet Impact on Solid Surfaces. <i>Langmuir</i> , 2017, 33, 7225-7230.	3.5	49
18	<i>Salvinia</i>-like slippery surface with stable and mobile water/air contact line. <i>National Science Review</i> , 2021, 8, nwa153.	9.5	47

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19	Collapse of Surface Nanobubbles. <i>Physical Review Letters</i> , 2015, 114, 114505.	7.8	46
20	Dynamic Wetting of Hydrophobic Polymers by Aqueous Surfactant and Superspreader Solutions. <i>Langmuir</i> , 2013, 29, 14855-14864.	3.5	45
21	Evolution of entrapped air under bouncing droplets on viscoelastic surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 726-732.	4.7	38
22	Prompting Splash Impact on Superamphiphobic Surfaces by Imposing a Viscous Part. <i>Advanced Science</i> , 2020, 7, 1902687.	11.2	34
23	Omni-liquid Droplet Manipulation Platform. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900653.	3.7	33
24	Oblique droplet impact on superhydrophobic surfaces: Jets and bubbles. <i>Physics of Fluids</i> , 2020, 32, .	4.0	31
25	Snap-in dynamics of single particles to water drops. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	30
26	Static and dynamic characterization of robust superhydrophobic surfaces built from nano-flowers on silicon micro-post arrays. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 105001.	2.6	27
27	Initial Electrospreeding of Aqueous Electrolyte Drops. <i>Physical Review Letters</i> , 2013, 110, 026103.	7.8	26
28	Spreading of impinging droplets on nanostructured superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	26
29	Macrodrop-impact-mediated Fluid Microdispensing. <i>Advanced Science</i> , 2021, 8, e2101331.	11.2	26
30	Droplet impact on pillar-arrayed non-wetting surfaces. <i>Soft Matter</i> , 2021, 17, 5932-5940.	2.7	21
31	Comparison of spontaneous wetting and drop impact dynamics of aqueous surfactant solutions on hydrophobic polypropylene surfaces: scaling of the contact radius. <i>Colloid and Polymer Science</i> , 2015, 293, 257-265.	2.1	20
32	Robust, Easy-Cleaning Superhydrophobic/Superoleophilic Copper Meshes for Oil/Water Separation under Harsh Conditions. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900158.	3.7	20
33	Liquid-Pressure-Guided Superhydrophobic Surfaces with Adaptive Adhesion and Stability. <i>Advanced Materials</i> , 2022, 34, .	21.0	20
34	Resolving the Apparent Line Tension of Sessile Droplets and Understanding its Sign Change at a Critical Wetting Angle. <i>Physical Review Letters</i> , 2019, 123, 094501.	7.8	19
35	Effective Strategies for Droplet Transport on Solid Surfaces. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001441.	3.7	19
36	Evaporation and particle deposition of bi-component colloidal droplets on a superhydrophobic surface. <i>International Journal of Heat and Mass Transfer</i> , 2020, 159, 120063.	4.8	18

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37	Jetting from an impacting drop containing a particle. <i>Physics of Fluids</i> , 2020, 32, .	4.0	18
38	Charge Density Gradient Propelled Ultrafast Sweeping Removal of Dropwise Condensates. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1936-1943.	2.6	18
39	Experimental and numerical investigations on the spreading dynamics of impinging liquid droplets on diverse wettable surfaces. <i>International Journal of Multiphase Flow</i> , 2022, 153, 104135.	3.4	18
40	Helical Fibers via Evaporation-Driven Self-Assembly of Surface-Acylated Cellulose Nanowhiskers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16323-16328.	13.8	17
41	Successive Rebounds of Impinging Water Droplets on Superhydrophobic Surfaces. <i>Langmuir</i> , 2022, 38, 3860-3867.	3.5	17
42	Superhydrophobic/Superoleophilic: Robust, Easy-Cleaning Superhydrophobic/Superoleophilic Copper Meshes for Oil/Water Separation under Harsh Conditions (<i>Adv. Mater. Interfaces</i> 11/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970069.	3.7	15
43	Water sprays formed by impinging millimeter-sized droplets on superhydrophobic meshes. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
44	Promoting rebound of impinging viscoelastic droplets on heated superhydrophobic surfaces. <i>New Journal of Physics</i> , 2020, 22, 123001.	2.9	14
45	Penetration and ligament formation of viscoelastic droplets impacting on the superhydrophobic mesh. <i>Scientific Reports</i> , 2022, 12, .	3.3	14
46	Helical Fibers via Evaporation-Driven Self-Assembly of Surface-Acylated Cellulose Nanowhiskers. <i>Angewandte Chemie</i> , 2018, 130, 16561-16566.	2.0	13
47	Spectacular Behavior of a Viscoelastic Droplet Impinging on a Superhydrophobic Mesh. <i>Langmuir</i> , 2022, 38, 6106-6115.	3.5	13
48	Impact dynamics of Newtonian and viscoelastic droplets on heated surfaces at low Weber number. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101109.	5.7	12
49	Surface-Charge-Assisted Microdroplet Generation on a Superhydrophobic Surface. <i>Langmuir</i> , 2020, 36, 14352-14360.	3.5	11
50	Critical droplet volume for spontaneous capillary wrapping. <i>Applied Physics Letters</i> , 2010, 97, 124103.	3.3	10
51	Dilute sodium dodecyl sulfate droplets impact on micropillar-arrayed non-wetting surfaces. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
52	Dynamic behaviors of impinging viscoelastic droplets on superhydrophobic surfaces heated above the boiling temperature. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122080.	4.8	8
53	A high-force and high isolation metal-contact RF MEMS switch. <i>Microsystem Technologies</i> , 2017, 23, 4699-4708.	2.0	7
54	Polymeric Microparticles Generated via Confinement-Free Fluid Instability. <i>Advanced Materials</i> , 2021, 33, e2007154.	21.0	7

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55	Polymeric Flaky Nanostructures from Cellulose Stearoyl Esters for Functional Surfaces. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600636.	3.7	6
56	An electric-field-dependent drop selector. <i>Lab on A Chip</i> , 2019, 19, 1296-1304.	6.0	6
57	Self-Assembly of Colloidal Nanoparticles into Well-Ordered Centimeter-Long Rods via Crack Engineering. <i>Advanced Materials Interfaces</i> , 2021, 8, 2000222.	3.7	6
58	Elasticity-to-Capillarity Transition in Soft Substrate Deformation. <i>Nano Letters</i> , 2021, 21, 10361-10367.	9.1	6
59	Sessile Microdrop Coalescence on Partial Wetting Surfaces: Effects of Surface Wettability and Stiffness. <i>Langmuir</i> , 2019, 35, 12955-12961.	3.5	5
60	Droplets Self-Born in the Dynamic Polymer for Generating Functional Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39657-39664.	8.0	5
61	Identification of surface nanobubbles and resolving their size-dependent stiffness. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	5
62	Microdrop impact on soft substrates at low Weber numbers. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 2128-2140.	2.6	4
63	What Can Probing Liquid-Air Menisci Inside Nanopores Teach Us About Macroscopic Wetting Phenomena?. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6897-6905.	8.0	3
64	Dual-scaled stable superhydrophobic nano-flower surfaces. , 2009, , .		1
65	New dimensionless number for superhydrophobicity study of micron/submicron patterned surfaces. , 2010, , .		0
66	Elastic film modelling and experimental research of the first-order vibration frequencies of sessile micro-droplets. <i>Fluid Dynamics Research</i> , 2021, 53, 035505.	1.3	0
67	10.1063/1.5139534.8. , 2020, , .		0