

# Xiaoguang Li

## List of Publications by Year in descending order

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44  
papers

1,062  
citations

331259

21  
h-index

414034

32  
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44  
all docs

44  
docs citations

44  
times ranked

855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic levitation of liquid drops: Dynamics, manipulation and phase transitions. <i>Advances in Colloid and Interface Science</i> , 2017, 243, 77-85.	7.0	83
2	Liquid Marble Coalescence and Triggered Microreaction Driven by Acoustic Levitation. <i>Langmuir</i> , 2017, 33, 6232-6239.	1.6	77
3	A scratch-resistant and hydrophobic broadband antireflective coating by sol-gel method. <i>Thin Solid Films</i> , 2011, 519, 6236-6240.	0.8	59
4	Liquid plasticine: controlled deformation and recovery of droplets with interfacial nanoparticle jamming. <i>Soft Matter</i> , 2016, 12, 1655-1662.	1.2	52
5	Liquid Shaping Based on Liquid Pancakes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701139.	1.9	44
6	Highly transparent, hot water and scratch resistant, lubricant-infused slippery surfaces developed from a mechanically-weak superhydrophobic coating. <i>Chemical Engineering Journal</i> , 2021, 416, 127809.	6.6	44
7	Liquid marbles and liquid plasticines with nanoparticle monolayers. <i>Advances in Colloid and Interface Science</i> , 2019, 271, 101988.	7.0	42
8	An Abrasion-Resistant and Broadband Antireflective Silica Coating by Block Copolymer Assisted Sol-Gel Method. <i>Langmuir</i> , 2014, 30, 10481-10486.	1.6	41
9	Increased Laser-Damage Resistance of Sol-Gel Silica Coating by Structure Modification. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18367-18371.	1.5	39
10	A capillary rise method for studying the effective surface tension of monolayer nanoparticle-covered liquid marbles. <i>Soft Matter</i> , 2018, 14, 9877-9884.	1.2	38
11	A facile two-step dipping process based on two silica systems for a superhydrophobic surface. <i>Chemical Communications</i> , 2011, 47, 10761.	2.2	37
12	Monolayer nanoparticle-covered liquid marbles derived from a sol-gel coating. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	35
13	Effective surface tension of liquid marbles using controllable nanoparticle monolayers. <i>Applied Physics Letters</i> , 2018, 113, 101602.	1.5	35
14	The stability of sol-gel silica coatings in vacuum with organic contaminants. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 539-545.	1.1	32
15	SWCNT Networks on Nanoporous Silica Catalyst Support: Morphological and Connectivity Control for Nanoelectronic, Gas-Sensing, and Biosensing Devices. <i>ACS Nano</i> , 2012, 6, 5809-5819.	7.3	32
16	Acoustic levitation of soap bubbles in air: Beyond the half-wavelength limit of sound. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	28
17	Deforming water droplets with a superhydrophobic silica coating. <i>Chemical Communications</i> , 2013, 49, 10016.	2.2	27
18	Shape evolution and bubble formation of acoustically levitated drops. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	26

#	ARTICLE	IF	CITATIONS
19	A Dip-Coating Process for Producing Transparent Bi-Superhydrophobic and Wrinkled Water Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800356.	1.9	25
20	On the effective surface tension of powder-derived liquid marbles. <i>Powder Technology</i> , 2020, 367, 608-615.	2.1	25
21	Laser-induced damage on ordered and amorphous sol-gel silica coatings. <i>Optical Materials Express</i> , 2014, 4, 2478.	1.6	23
22	Rod-shaped liquid plasticine for gas diffusion detection. <i>Soft Matter</i> , 2019, 15, 3085-3088.	1.2	23
23	Ultraviolet laser-induced damage on fused silica substrate and its sol-gel coating. <i>Optics Letters</i> , 2012, 37, 2364.	1.7	20
24	Oscillation-Induced Mixing Advances the Functionality of Liquid Marble Microreactors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11999-12009.	4.0	19
25	Timing of polyethylene glycol addition for the control of SiO <sub>2</sub> sol structure and sol-gel coating properties. <i>Journal of Coatings Technology Research</i> , 2017, 14, 447-454.	1.2	18
26	Simulation of phase separation with large component ratio for oil-in-water emulsion in ultrasound field. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 101-111.	3.8	16
27	Liquid Plasticine Integrated with Isoelectric Focusing for Miniaturized Protein Analysis. <i>Analytical Chemistry</i> , 2020, 92, 9048-9056.	3.2	15
28	Liquid marbles from soot films. <i>Soft Matter</i> , 2020, 16, 4512-4519.	1.2	15
29	Dynamic behavior of droplets under interfacial jamming of nanoparticles. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	14
30	Vertical vibration dynamics of acoustically levitated drop containing two immiscible liquids. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
31	Superhydrophobic polytetrafluoroethylene surfaces by spray coating on porous and continuous substrates. <i>RSC Advances</i> , 2016, 6, 47096-47100.	1.7	10
32	Revisiting the fabrication of superhydrophobic aluminum surfaces and their use as soft substrates for droplet manipulation. <i>Journal of Materials Science</i> , 2019, 54, 7469-7482.	1.7	10
33	Mechanical robustness of monolayer nanoparticle-covered liquid marbles. <i>Soft Matter</i> , 2020, 16, 4632-4639.	1.2	10
34	Template confined synthesis of Cu- or Cu <sub>2</sub> O-doped SiO <sub>2</sub> aerogels from Cu( <i>scp</i> )-containing composites by in situ alcoholothermal reduction. <i>RSC Advances</i> , 2014, 4, 49541-49546.	1.7	9
35	Monolayer Nanoparticle-Covered Liquid Marble Production with Low Surface Tension Liquids. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001081.	1.9	9
36	Preparation and optimization of aerogel flyer-plates with graded density. <i>Materials and Design</i> , 2016, 110, 225-232.	3.3	7

#	ARTICLE	IF	CITATIONS
37	Morphological Simulation of Phase Separation Coupled Oscillation Shear and Varying Temperature Fields. <i>Journal of Low Temperature Physics</i> , 2018, 191, 153-173.	0.6	4
38	Superhydrophobic: A Dip-Coating Process for Producing Transparent Bi-Superhydrophobic and Wrinkled Water Surfaces (Adv. Mater. Interfaces 15/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870072.	1.9	3
39	Preparation and characterization of inhomogeneous RF aerogels with continuously varying densities. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 478-486.	1.1	2
40	Lattice Boltzmann simulation of phase separation under dynamic temperature and shear: Coupling effects of shear convection and thermal diffusion. <i>European Physical Journal E</i> , 2016, 39, 102.	0.7	1
41	Free-standing coating patterns fabricated by ultraviolet contact lithography using photosensitive sol-gel coatings. <i>Optical Materials</i> , 2017, 69, 265-273.	1.7	1
42	Simulation of phase separation with temperature-dependent viscosity using lattice Boltzmann method. <i>European Physical Journal E</i> , 2017, 40, 115.	0.7	1
43	Liquid Marbles: Liquid Shaping Based on Liquid Pancakes (Adv. Mater. Interfaces 2/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870008.	1.9	1
44	Effect of the Hartmann number on phase separation controlled by magnetic field for binary mixture system with large component ratio. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	0