

# Lei Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2026252/publications.pdf>

Version: 2024-02-01

25  
papers

1,985  
citations

516710

16  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diatomite Modified with an Alkyl Ketene Dimer for Hydrophobicity of Cellulosic Paper. ACS Omega, 2022, 7, 20129-20136.	3.5	7
2	The role of drop shape in impact and splash. Nature Communications, 2021, 12, 3068.	12.8	35
3	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
4	Achieving adjustable elasticity with non-affine to affine transition. Nature Materials, 2021, 20, 1635-1642.	27.5	9
5	Application of Microfluidics in Wearable Devices. Small Methods, 2019, 3, 1900688.	8.6	37
6	Diffusion-Dominated Pinch-Off of Ultralow Surface Tension Fluids. Physical Review Letters, 2019, 123, 134501.	7.8	22
7	A universal state and its relaxation mechanisms of long-range interacting polygons. Nature Communications, 2019, 10, 1737.	12.8	7
8	Emergence of Droplets at the Nonequilibrium All-Aqueous Interface in a Vertical Hele-Shaw Cell. Langmuir, 2018, 34, 3030-3036.	3.5	14
9	Mechanism of Contact between a Droplet and an Atomically Smooth Substrate. Physical Review X, 2017, 7, .	8.9	17
10	Probing the Role of Mobility in the Collective Motion of Nonequilibrium Systems. Physical Review Letters, 2016, 116, 048302.	7.8	14
11	Kelvinâ€™Helmholtz instability in an ultrathin air film causes drop splashing on smooth surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3280-3284.	7.1	103
12	Superhydrophobic-like tunable droplet bouncing on slippery liquid interfaces. Nature Communications, 2015, 6, 7986.	12.8	229
13	Visualizing kinetic pathways of homogeneous nucleation in colloidal crystallization. Nature Physics, 2014, 10, 73-79.	16.7	205
14	Eliminating cracking during drying. European Physical Journal E, 2013, 36, 28.	1.6	15
15	Compressible air entrapment in high-speed drop impacts on solid surfaces. Journal of Fluid Mechanics, 2013, 716, .	3.4	52
16	Understanding the Low-Frequency Quasilocalized Modes in Disordered Colloidal Systems. Physical Review Letters, 2012, 108, 095501.	7.8	43
17	Hierarchical Porous Materials Made by Drying Complex Suspensions. Langmuir, 2011, 27, 955-964.	3.5	55
18	Drying of Complex Suspensions. Physical Review Letters, 2010, 104, 128303.	7.8	18

#	ARTICLE	IF	CITATIONS
19	Instability development of a viscous liquid drop impacting a smooth substrate. Physical Review E, 2010, 82, 025303.	2.1	14
20	Towards the zero-surface-tension limit in granular fingering instability. Nature Physics, 2008, 4, 234-237.	16.7	106
21	Dynamics of Drying in 3D Porous Media. Physical Review Letters, 2008, 101, 094502.	7.8	95
22	Liquid drop splashing on smooth, rough, and textured surfaces. Physical Review E, 2007, 75, 056316.	2.1	179
23	Splashing of liquids: Interplay of surface roughness with surrounding gas. Physical Review E, 2007, 76, 066311.	2.1	113
24	Xu, Zhang, and Nagel Reply:. Physical Review Letters, 2006, 96, .	7.8	7
25	Drop Splashing on a Dry Smooth Surface. Physical Review Letters, 2005, 94, 184505.	7.8	553