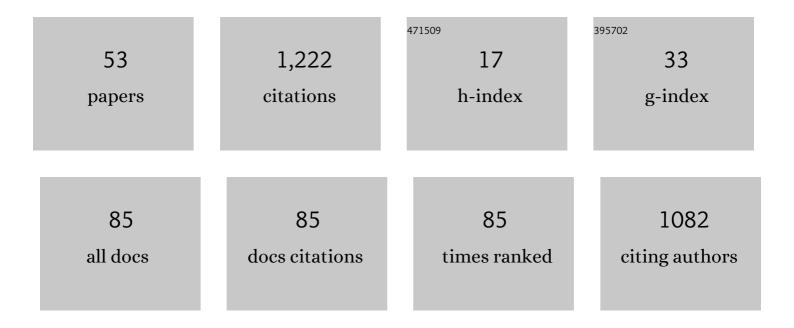
Xiwen Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Condensation and jumping relay of droplets on lotus leaf. Applied Physics Letters, 2013, 103, .	3.3	130
2	Freezing of sessile water droplets on surfaces with various roughness and wettability. Applied Physics Letters, 2014, 104, .	3.3	130
3	Dewetting Transitions of Dropwise Condensation on Nanotexture-Enhanced Superhydrophobic Surfaces. ACS Nano, 2015, 9, 12311-12319.	14.6	112
4	Supercooled water droplet impact on superhydrophobic surfaces with various roughness and temperature. International Journal of Heat and Mass Transfer, 2018, 122, 395-402.	4.8	92
5	Drop impact upon superhydrophobic surfaces with regular and hierarchical roughness. Applied Physics Letters, 2016, 108, .	3.3	87
6	Dynamic behavior of water drops impacting on cylindrical superhydrophobic surfaces. Physics of Fluids, 2019, 31, .	4.0	86
7	Effect of wettability on droplet impact: Spreading and splashing. Experimental Thermal and Fluid Science, 2021, 124, 110369.	2.7	47
8	Asymmetric splash and breakup of drops impacting on cylindrical superhydrophobic surfaces. Physics of Fluids, 2020, 32, .	4.0	28
9	Numerical simulation of droplet impact on textured surfaces in a hybrid state. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	26
10	Dynamic behaviors of droplets impacting on ultrasonically vibrating surfaces. Experimental Thermal and Fluid Science, 2020, 112, 110019.	2.7	25
11	Dynamics of high Weber number drops impacting on hydrophobic surfaces with closed micro-cells. Soft Matter, 2016, 12, 5808-5817.	2.7	23
12	Deep-learning-based super-resolution reconstruction of high-speed imaging in fluids. Physics of Fluids, 2022, 34, .	4.0	22
13	PIV measurement and simulation of turbulent thermal free convection over a small heat source in a large enclosed cavity. Building and Environment, 2015, 90, 105-113.	6.9	21
14	Reversed role of liquid viscosity on drop splash. Physics of Fluids, 2021, 33, .	4.0	21
15	Acoustic feedback loops for screech tones of underexpanded free round jets at different modes. Journal of Fluid Mechanics, 2020, 902, .	3.4	20
16	From Initial Nucleation to Cassie-Baxter State of Condensed Droplets on Nanotextured Superhydrophobic Surfaces. Scientific Reports, 2017, 7, 42752.	3.3	19
17	Mesoscopic Dynamical Model of Ice Crystal Nucleation Leading to Droplet Freezing. ACS Omega, 2020, 5, 3322-3332.	3.5	19
18	A many-body dissipative particle dynamics study of eccentric droplets impacting inclined fiber. Physics of Fluids, 2021, 33, 042001.	4.0	19

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19	The effect of topography and wettability of biomaterials on platelet adhesion. Journal of Adhesion Science and Technology, 2016, 30, 878-893.	2.6	17
20	Tunable Droplet Breakup Dynamics on Micropillared Superhydrophobic Surfaces. Langmuir, 2018, 34, 7942-7950.	3.5	17
21	Shock Motion and Flow Structure of an Underexpanded Jet in the Helical Mode. AIAA Journal, 2019, 57, 3943-3953.	2.6	15
22	Adsorption properties of albumin and fibrinogen on hydrophilic/hydrophobic TiO2 surfaces: A molecular dynamics study. Colloids and Surfaces B: Biointerfaces, 2021, 207, 111994.	5.0	15
23	Numerical study of the instantaneous flow fields by large eddy simulation and stability analysis in a single aisle cabin model. Building and Environment, 2016, 96, 1-11.	6.9	14
24	Internal rupture and rapid bouncing of impacting drops induced by submillimeter-scale textures. Physical Review E, 2017, 95, 063104.	2.1	14
25	Screech feedback loop and mode staging process of axisymmetric underexpanded jets. Experimental Thermal and Fluid Science, 2021, 122, 110323.	2.7	14
26	How surface roughness promotes or suppresses drop splash. Physics of Fluids, 2022, 34, .	4.0	14
27	Modeling Clot Formation of Shear-Injured Platelets in Flow by a Dissipative Particle Dynamics Method. Bulletin of Mathematical Biology, 2020, 82, 83.	1.9	13
28	Acoustic particle migration and focusing in a tilted acoustic field. Physics of Fluids, 2021, 33, 122006.	4.0	13
29	How micropatterns affect the anti-icing performance of superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2022, 195, 123196.	4.8	13
30	Experimental and computational studies on the flow fields in aortic aneurysms associated with deployment of AAA stent-grafts. Acta Mechanica Sinica/Lixue Xuebao, 2007, 23, 495-501.	3.4	12
31	Mechanical behavior of the erythrocyte in microvessel stenosis. Science China Life Sciences, 2011, 54, 450-458.	4.9	12
32	HYDRODYNAMIC AND HEMOLYSIS ANALYSIS ON DISTANCE AND CLEARANCE BETWEEN IMPELLER AND DIFFUSER OF AXIAL BLOOD PUMP. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650014.	0.7	11
33	Numerical study of droplet fragmentation during impact on mesh screens. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	11
34	Statistical analysis of turbulent thermal free convection over a small heat source in a large enclosed cavity. Applied Thermal Engineering, 2016, 93, 446-455.	6.0	10
35	Study of dynamic hydrophobicity of micro-structured hydrophobic surfaces and lotus leaves. Science China: Physics, Mechanics and Astronomy, 2011, 54, 675-682.	5.1	9
36	Study on a mesoscopic model of droplets freezing considering the recalescence process. Physics of Fluids, 2021, 33, .	4.0	9

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#	Article	IF	CITATIONS
37	The feedback loops of discrete tones in under-expanded impinging jets. Physics of Fluids, 2021, 33, 106112.	4.0	8
38	Mode switch in tonal under-expanded impinging jets. Physics of Fluids, 2021, 33, 124102.	4.0	8
39	Molecular dynamics simulations of BSA absorptions on pure and formate-contaminated rutile (1 1 0) surface. Applied Surface Science, 2020, 533, 147574.	6.1	7
40	Characteristics of secondary droplets produced by the impact of drops onto a smooth surface. Advances in Aerodynamics, 2021, 3, .	2.5	7
41	Condensation on solid surfaces with amphiphilic micro-nanostructures by lattice Boltzmann simulation. Chemical Physics, 2018, 513, 258-265.	1.9	6
42	Numerical investigation of polygonal particle separation in microfluidic channels. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	4
43	Three-dimensional measurement of the droplets out of focus in shadowgraphy systems via deep learning-based image-processing method. Physics of Fluids, 2022, 34, .	4.0	4
44	The interactions between bloodstream and vascular structure on aortic dissecting aneurysmal model: A numerical study. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 462-468.	3.4	3
45	COMPARISON OF THREE CONTROL STRATEGIES FOR AXIAL BLOOD PUMP. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950058.	0.7	3
46	A many-body dissipative particle dynamics with energy conservation study of droplets icing on microstructure surfaces. Advances in Aerodynamics, 2021, 3, .	2.5	3
47	Particle acceleration for delivery deoxyribonucleic acid vaccine into skin in vivo. Review of Scientific Instruments, 2001, 72, 3390-3395.	1.3	2
48	Computational fluid dynamics modeling and hemolysis analysis of axial blood pumps with various impeller structures. Progress in Natural Science: Materials International, 2006, 16, 993-997.	4.4	2
49	A new stent with streamlined cross-section can suppress monocyte cell adhesion in the flow disturbance zones of the endovascular stent. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 60-66.	1.6	2
50	A Study on the Pressure-Lowering Effect of the Multilayer Stent. Annals of Vascular Surgery, 2019, 59, 237-243.	0.9	2
51	Mechanical behavior of pathological and normal red blood cells in microvascular flow based on modified level-set method. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	1
52	10.1063/5.0078644.8., 2022, , .		0
53	10.1063/5.0079494.7. , 2022, , .		0