

# Hai-Bao Hu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/96324/publications.pdf>

Version: 2024-02-01

36  
papers

701  
citations

623734

14  
h-index

552781

26  
g-index

36  
all docs

36  
docs citations

36  
times ranked

736  
citing authors

#	ARTICLE	IF	CITATIONS
1	Significant and stable drag reduction with air rings confined by alternated superhydrophobic and hydrophilic strips. <i>Science Advances</i> , 2017, 3, e1603288.	10.3	127
2	Improved lattice Boltzmann modeling of binary flow based on the conservative Allen-Cahn equation. <i>Physical Review E</i> , 2016, 94, 023311.	2.1	80
3	Maintenance of air layer and drag reduction on superhydrophobic surface. <i>Ocean Engineering</i> , 2017, 130, 328-335.	4.3	80
4	Selectively splitting a droplet using superhydrophobic stripes on hydrophilic surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13800-13803.	2.8	47
5	Contact angle and impinging process of droplets on partially grooved hydrophobic surfaces. <i>Applied Thermal Engineering</i> , 2015, 85, 356-364.	6.0	39
6	Effect of a surface tension gradient on the slip flow along a superhydrophobic air-water interface. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	39
7	No-Loss Transportation of Water Droplets by Patterning a Desired Hydrophobic Path on a Superhydrophobic Surface. <i>Langmuir</i> , 2016, 32, 7339-7345.	3.5	27
8	Resistance and wave characterizations of inland vessels in the fully-confined waterway. <i>Ocean Engineering</i> , 2020, 210, 107580.	4.3	25
9	Droplet impact on regular micro-grooved surfaces. <i>Chinese Physics B</i> , 2013, 22, 084702.	1.4	17
10	Effects of viscous heating and wall-fluid interaction energy on rate-dependent slip behavior of simple fluids. <i>Physical Review E</i> , 2017, 96, 033110.	2.1	17
11	A comparative analysis of the effective and local slip lengths for liquid flows over a trapped nanobubble. <i>International Journal of Multiphase Flow</i> , 2018, 104, 166-173.	3.4	17
12	Identifying two regimes of slip of simple fluids over smooth surfaces with weak and strong wall-fluid interaction energies. <i>Journal of Chemical Physics</i> , 2017, 146, 034701.	3.0	16
13	Molecular droplets vs bubbles: Effect of curvature on surface tension and Tolman length. <i>Physics of Fluids</i> , 2021, 33, .	4.0	15
14	Rebound behaviors of droplets impacting on a superhydrophobic surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 960-965.	5.1	14
15	Dynamic interaction of a bubble and discontinuous boundaries: A three-dimensional study with the fast multipole boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2020, 110, 1-15.	3.7	13
16	A GPU-accelerated solver for turbulent flow and scalar transport based on the Lattice Boltzmann method. <i>Computers and Fluids</i> , 2018, 173, 29-36.	2.5	12
17	Nonlinear dynamics of a cavitation bubble pair near a rigid boundary in a standing ultrasonic wave field. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104969.	8.2	12
18	Molecular dynamics simulations of the nano-droplet impact process on hydrophobic surfaces. <i>Chinese Physics B</i> , 2014, 23, 074702.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Many-body dissipative particle dynamics study of the local slippage over superhydrophobic surfaces. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11
20	The local slip length and flow fields over nanostructured superhydrophobic surfaces. <i>International Journal of Multiphase Flow</i> , 2020, 126, 103258.	3.4	10
21	In Situ Grafting Hydrophilic Polymeric Layer for Stable Drag Reduction. <i>Langmuir</i> , 2019, 35, 7205-7211.	3.5	9
22	Ship maneuvering prediction based on virtual captive model test and system dynamics approaches. <i>Journal of Hydrodynamics</i> , 2022, 34, 259-276.	3.2	8
23	Lattice Boltzmann simulations of turbulent channel flow and heat transport by incorporating the Vreman model. <i>Applied Thermal Engineering</i> , 2018, 129, 463-471.	6.0	7
24	Simulation of the early stage water flooding through an opening using boundary element method. <i>Ocean Engineering</i> , 2019, 186, 106086.	4.3	7
25	Speed dependence of integrated drag reduction in turbulent flow with polymer injection. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	7
26	Experimental investigation of flow past a circular cylinder with hydrophobic coating. <i>Journal of Hydrodynamics</i> , 2018, 30, 992-1000.	3.2	6
27	Manipulating dynamic drops using a hybrid superhydrophobic/hydrophilic surface. <i>Applied Surface Science</i> , 2016, 387, 1225-1229.	6.1	5
28	Directional and sustainable transportation of water droplets using lubricated carbon fibers on a superhydrophobic substrate. <i>Applied Surface Science</i> , 2020, 502, 143904.	6.1	4
29	Electric and viscous correction for viscous potential flow analysis of electrohydrodynamic instability of an electrified leaky-dielectric jet. <i>Physics of Fluids</i> , 2021, 33, .	4.0	4
30	Noise reduction in cavity flow by addition of porous media. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	4
31	Transverse effect on liquid viscosity: A many-body dissipative particle dynamics simulation study. <i>Physics of Fluids</i> , 2022, 34, 012006.	4.0	3
32	Artificially intelligent control of drag reduction around a circular cylinder based on wall pressure feedback. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 084701.	0.5	3
33	Instantaneous drag increase on alternate transverse superhydrophobic strips. <i>Tribology International</i> , 2021, 153, 106613.	5.9	2
34	Weakly nonlinear instability of annular viscous sheets. <i>Physics of Fluids</i> , 2021, 33, 034121.	4.0	2
35	Ship Hydrodynamics of Several Typical Scenes During Inland Waterway Transport. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 697, 012003.	0.3	1
36	Extracting Coherent Structures in Near-Wall Turbulence Based on Wavelet Analysis. , 0, , .		0