List of Publications by Year in descending order

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PENC-FEI HAO

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Sliding of Water Droplets on Microstructured Hydrophobic Surfaces. Langmuir, 2010, 26, 8704-8708. | 3.5 | 149 |
| 2 | Condensation and jumping relay of droplets on lotus leaf. Applied Physics Letters, 2013, 103, . | 3.3 | 130 |
| 3 | Freezing of sessile water droplets on surfaces with various roughness and wettability. Applied Physics Letters, 2014, 104, . | 3.3 | 130 |
| 4 | Dewetting Transitions of Dropwise Condensation on Nanotexture-Enhanced Superhydrophobic Surfaces. ACS Nano, 2015, 9, 12311-12319. | 14.6 | 112 |
| 5 | Departure of Condensation Droplets on Superhydrophobic Surfaces. Langmuir, 2015, 31, 2414-2420. | 3.5 | 100 |
| 6 | 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 |
| 7 | Drop impact upon superhydrophobic surfaces with regular and hierarchical roughness. Applied Physics Letters, 2016, 108, . | 3.3 | 87 |
| 8 | Dynamic behavior of water drops impacting on cylindrical superhydrophobic surfaces. Physics of Fluids, 2019, 31, . | 4.0 | 86 |
| 9 | Sliding behavior of water droplet on superhydrophobic surface. Europhysics Letters, 2010, 90, 66003. | 2.0 | 55 |
| 10 | Small is beautiful, and dry. Science China: Physics, Mechanics and Astronomy, 2010, 53, 2245-2259. | 5.1 | 54 |
| 11 | Mechanisms of drag reduction of superhydrophobic surfaces in a turbulent boundary layer flow. Experiments in Fluids, 2015, 56, 1. | 2.4 | 52 |
| 12 | Drop Impact on Oblique Superhydrophobic Surfaces with Two-Tier Roughness. Langmuir, 2017, 33, 3556-3567. | 3.5 | 52 |
| 13 | Effect of wettability on droplet impact: Spreading and splashing. Experimental Thermal and Fluid Science, 2021, 124, 110369. | 2.7 | 47 |
| 14 | Water droplet impact on superhydrophobic surfaces with microstructures and hierarchical roughness. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1376-1381. | 5.1 | 41 |
| 15 | Driving liquid droplets on microstructured gradient surface by mechanical vibration. Chemical Engineering Science, 2011, 66, 2118-2123. | 3.8 | 32 |
| 16 | Asymmetric splash and breakup of drops impacting on cylindrical superhydrophobic surfaces. Physics of Fluids, 2020, 32, . | 4.0 | 28 |
| 17 | Drag reductions and the air-water interface stability of superhydrophobic surfaces in rectangular channel flow. Physical Review E, 2016, 94, 053117. | 2.1 | 26 |
| 18 | Numerical simulation of droplet impact on textured surfaces in a hybrid state. Microfluidics and Nanofluidics, 2017, 21, 1. | 2.2 | 26 |

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|----|---|-----|-----------|
| 19 | Dynamic behaviors of droplets impacting on ultrasonically vibrating surfaces. Experimental Thermal and Fluid Science, 2020, 112, 110019. | 2.7 | 25 |
| 20 | Drag reduction in ultrahydrophobic channels with micro-nano structured surfaces. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1298-1305. | 5.1 | 23 |
| 21 | Dynamics of high Weber number drops impacting on hydrophobic surfaces with closed micro-cells. Soft Matter, 2016, 12, 5808-5817. | 2.7 | 23 |
| 22 | Numerical Simulation of Condensation on Structured Surfaces. Langmuir, 2014, 30, 14048-14055. | 3.5 | 22 |
| 23 | Rapid Bouncing of High-Speed Drops on Hydrophobic Surfaces with Microcavities. Langmuir, 2016, 32, 9967-9974. | 3.5 | 22 |
| 24 | Deep-learning-based super-resolution reconstruction of high-speed imaging in fluids. Physics of Fluids, 2022, 34, . | 4.0 | 22 |
| 25 | Reversed role of liquid viscosity on drop splash. Physics of Fluids, 2021, 33, . | 4.0 | 21 |
| 26 | Droplet Detachment by Air Flow for Microstructured Superhydrophobic Surfaces. Langmuir, 2013, 29, 5160-5166. | 3.5 | 20 |
| 27 | Acoustic feedback loops for screech tones of underexpanded free round jets at different modes. Journal of Fluid Mechanics, 2020, 902, . | 3.4 | 20 |
| 28 | From Initial Nucleation to Cassie-Baxter State of Condensed Droplets on Nanotextured Superhydrophobic Surfaces. Scientific Reports, 2017, 7, 42752. | 3.3 | 19 |
| 29 | Mesoscopic Dynamical Model of Ice Crystal Nucleation Leading to Droplet Freezing. ACS Omega, 2020, 5, 3322-3332. | 3.5 | 19 |
| 30 | A many-body dissipative particle dynamics study of eccentric droplets impacting inclined fiber. Physics of Fluids, 2021, 33, 042001. | 4.0 | 19 |
| 31 | The effect of topography and wettability of biomaterials on platelet adhesion. Journal of Adhesion Science and Technology, 2016, 30, 878-893. | 2.6 | 17 |
| 32 | Tunable Droplet Breakup Dynamics on Micropillared Superhydrophobic Surfaces. Langmuir, 2018, 34, 7942-7950. | 3.5 | 17 |
| 33 | 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 |
| 34 | Evolutions of hairpin vortexes over a superhydrophobic surface in turbulent boundary layer flow. Physics of Fluids, 2016, 28, . | 4.0 | 14 |
| 35 | Internal rupture and rapid bouncing of impacting drops induced by submillimeter-scale textures. Physical Review E, 2017, 95, 063104. | 2.1 | 14 |
| 36 | Screech feedback loop and mode staging process of axisymmetric underexpanded jets. Experimental Thermal and Fluid Science, 2021, 122, 110323. | 2.7 | 14 |

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|----|--|-----|-----------|
| 37 | How surface roughness promotes or suppresses drop splash. Physics of Fluids, 2022, 34, . | 4.0 | 14 |
| 38 | Thermal hydraulic analysis for hot gas mixing structure of HTR-PM. Nuclear Engineering and Design, 2014, 271, 510-514. | 1.7 | 13 |
| 39 | How micropatterns affect the anti-icing performance of superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2022, 195, 123196. | 4.8 | 13 |
| 40 | Formation and evolution of air–water interfaces between hydrophilic structures in a microchannel. Microfluidics and Nanofluidics, 2017, 21, 1. | 2.2 | 11 |
| 41 | Wetting property of smooth and textured hydrophobic surfaces under condensation condition. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2127-2132. | 5.1 | 10 |
| 42 | Experimental study on the drag reduction effect of a rotating superhydrophobic surface in micro gap flow field. Microsystem Technologies, 2017, 23, 3033-3040. | 2.0 | 10 |
| 43 | 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 |
| 44 | Study on a mesoscopic model of droplets freezing considering the recalescence process. Physics of Fluids, 2021, 33, . | 4.0 | 9 |
| 45 | Static and dynamic characterization of droplets on hydrophobic surfaces. Science Bulletin, 2012, 57, 1095-1101. | 1.7 | 8 |
| 46 | Experiment study on thermal mixing performance of HTR-PM reactor outlet. Nuclear Engineering and Design, 2016, 306, 186-191. | 1.7 | 8 |
| 47 | The feedback loops of discrete tones in under-expanded impinging jets. Physics of Fluids, 2021, 33, 106112. | 4.0 | 8 |
| 48 | Mode switch in tonal under-expanded impinging jets. Physics of Fluids, 2021, 33, 124102. | 4.0 | 8 |
| 49 | Evaporating behaviors of water droplet on superhydrophobic surface. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2463-2468. | 5.1 | 7 |
| 50 | Air bubble-triggered suppression of the coffee-ring effect. Colloids and Interface Science Communications, 2020, 37, 100284. | 4.1 | 7 |
| 51 | Characteristics of secondary droplets produced by the impact of drops onto a smooth surface. Advances in Aerodynamics, 2021, 3, . | 2.5 | 7 |
| 52 | Characteristics of Liquid Flow in Microchannels at very Low Reynolds Numbers. Chemical Engineering and Technology, 2016, 39, 1425-1430. | 1.5 | 6 |
| 53 | Numerical investigations of thermal mixing performance of a hot gas mixing structure in high-temperature gas-cooled reactor. Nuclear Science and Techniques/Hewuli, 2016, 27, 1. | 3.4 | 5 |
| 54 | Performance of thermal mixing structure of HTR-PM regarding bypass flow and power effect. Nuclear Engineering and Design, 2018, 335, 291-302. | 1.7 | 4 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | COMPARISON OF THREE CONTROL STRATEGIES FOR AXIAL BLOOD PUMP. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950058. | 0.7 | 3 |
| 57 | Patterning in colloidal droplets by forced airflow. Journal of Applied Physics, 2021, 129, . | 2.5 | 3 |
| 58 | A many-body dissipative particle dynamics with energy conservation study of droplets icing on microstructure surfaces. Advances in Aerodynamics, 2021, 3, . | 2.5 | 3 |
| 59 | Effects of Geometric Confinement on Zero-Gravity Droplets between Two Parallel Planes. Langmuir, 2020, 36, 12838-12848. | 3.5 | 2 |
| 60 | 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 |
| 61 | 10.1063/5.0079494.7. , 2022, , . | | 0 |