

Zhang Xiaobin

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Computational fluid dynamics analysis on flow-induced vibration of a cryogenic poppet valve in consideration of cavitation effect. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 83-100. | 1.3 | 7 |
| 2 | Cavitation evolution and damage by liquid nitrogen in a globe valve. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 101-117. | 1.3 | 1 |
| 3 | Investigation of unsteady cryogenic cavitating flow and induced noise around a three-dimensional hydrofoil. <i>Physics of Fluids</i> , 2022, 34, . | 1.6 | 16 |
| 4 | Flow-induced vibration characteristics of the U-type Coriolis mass flowmeter with liquid hydrogen. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 495-504. | 1.3 | 5 |
| 5 | A least squares support vector regression coupled linear reconstruction algorithm for ECT. <i>Flow Measurement and Instrumentation</i> , 2021, 77, 101874. | 1.0 | 7 |
| 6 | Unsteady cloud cavitation mechanisms of liquid nitrogen in convergentâ€“divergent nozzle. <i>Physics of Fluids</i> , 2021, 33, . | 1.6 | 12 |
| 7 | Numerical investigation of a burning fuel droplet pair with different spacings and sizes. <i>Combustion Theory and Modelling</i> , 2020, 24, 41-71. | 1.0 | 0 |
| 8 | Visual Experimental Study on Liquid-Nitrogen Cavitating Flow on NACA 66 Hydrofoil. <i>Journal of Propulsion and Power</i> , 2020, 36, 88-94. | 1.3 | 4 |
| 9 | CFD analysis on flow and heat transfer mechanism of a microchannel Î©-shape heat pipe under zero gravity condition. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120448. | 2.5 | 10 |
| 10 | Preliminary study on three-dimensional imaging of cryogenic two-phase flow based on electrical capacitance volume tomography. <i>Cryogenics</i> , 2020, 110, 103127. | 0.9 | 8 |
| 11 | Influences of thermal effects on cavitation dynamics in liquid nitrogen through venturi tube. <i>Physics of Fluids</i> , 2020, 32, . | 1.6 | 28 |
| 12 | A Novel Passive Method for Regulating Both Air Temperature and Relative Humidity of the Microenvironment in Museum Display Cases. <i>Energies</i> , 2019, 12, 3768. | 1.6 | 9 |
| 13 | Simulations on effects of rated ullage pressure on the evaporation rate of liquid hydrogen tank. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 842-851. | 2.5 | 30 |
| 14 | Experimental analysis on the decoupling of temperature and humidity by using a double circuit cooling coil. <i>Science and Technology for the Built Environment</i> , 2019, 25, 914-924. | 0.8 | 3 |
| 15 | Evaluation of mass transfer correlations applying to cryogenic distillation process with non-equilibrium model. <i>Cryogenics</i> , 2019, 97, 22-30. | 0.9 | 12 |
| 16 | Studies on thermal effects of cavitation in LN2 flow over a twisted hydrofoil based on large eddy simulation. <i>Cryogenics</i> , 2019, 97, 40-49. | 0.9 | 21 |
| 17 | Frequency characteristics of liquid hydrogen cavitating flow over a NACA0015 hydrofoil. <i>Cryogenics</i> , 2018, 90, 7-19. | 0.9 | 18 |
| 18 | A parametric sensitivity study by numerical simulations on plume dispersion of the exhaust from a cryogenic wind tunnel. <i>Journal of Zhejiang University: Science A</i> , 2018, 19, 746-757. | 1.3 | 4 |

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|----|---|-----|-----------|
| 19 | Numerical analysis of energy separation in Ranque-Hilsch vortex tube with gaseous hydrogen using real gas model. <i>Applied Thermal Engineering</i> , 2018, 140, 287-294. | 3.0 | 31 |
| 20 | Evaluation of the approach based on the concept of hyperbolicity breaking for prediction of flooding velocity of both room temperature and cryogenic fluids. <i>Cryogenics</i> , 2018, 93, 41-47. | 0.9 | 1 |
| 21 | Unsteady cavitation characteristics of liquid nitrogen flows through venturi tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 544-552. | 2.5 | 69 |
| 22 | Capacitance-based liquid holdup measurement of cryogenic two-phase flow in a nearly-horizontal tube. <i>Cryogenics</i> , 2017, 84, 69-75. | 0.9 | 10 |
| 23 | Preliminary evaluation of cryogenic two-phase flow imaging using electrical capacitance tomography. <i>Cryogenics</i> , 2017, 86, 97-105. | 0.9 | 14 |
| 24 | Research on gas bubble merging through the lattice Boltzmann method. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2016, 16, 99-109. | 0.1 | 3 |
| 25 | CFD study on Taconis thermoacoustic oscillation with cryogenic hydrogen as working gas. <i>Cryogenics</i> , 2016, 75, 38-46. | 0.9 | 15 |
| 26 | Interactions of vortices, thermal effects and cavitation in liquid hydrogen cavitating flows. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 614-631. | 3.8 | 58 |
| 27 | Lattice Boltzmann Simulation of Multiple Bubbles Motion under Gravity. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-12. | 0.3 | 2 |
| 28 | Computational fluid dynamic simulations on liquid film behaviors at flooding in an inclined pipe. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1460-1468. | 1.7 | 15 |
| 29 | Extension of the Schnerr-Sauer model for cryogenic cavitation. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 52, 1-10. | 1.2 | 75 |
| 30 | Calculation and verification of dynamical cavitation model for quasi-steady cavitating flow. <i>International Journal of Heat and Mass Transfer</i> , 2015, 86, 294-301. | 2.5 | 26 |
| 31 | Computational fluid dynamics study on liquefied natural gas dispersion with phase change of water. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 347-354. | 2.5 | 25 |
| 32 | Research and development of large-scale cryogenic air separation in China. <i>Journal of Zhejiang University: Science A</i> , 2014, 15, 309-322. | 1.3 | 53 |
| 33 | Validation of dynamic cavitation model for unsteady cavitating flow on NACA66. <i>Science China Technological Sciences</i> , 2014, 57, 819-827. | 2.0 | 22 |
| 34 | Experimental results of flooding experiments in an inclined tube with liquid nitrogen and its vapor. <i>Cryogenics</i> , 2014, 62, 1-6. | 0.9 | 10 |
| 35 | Experimental Study on a 500 W Traveling-wave Thermoacoustic Electric Generator. <i>Energy Procedia</i> , 2014, 61, 2271-2274. | 1.8 | 1 |
| 36 | Modeling cavitation flow of cryogenic fluids with thermodynamic phase-change theory. <i>Science Bulletin</i> , 2013, 58, 567-574. | 1.7 | 40 |

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|----|--|-----|-----------|
| 37 | Three-dimensional Computational Fluid Dynamics Modeling of Two-phase Flow in a Structured Packing Column. Chinese Journal of Chemical Engineering, 2013, 21, 959-966. | 1.7 | 15 |
| 38 | Modeling droplet vaporization and combustion with the volume of fluid method at a small Reynolds number. Journal of Zhejiang University: Science A, 2012, 13, 361-374. | 1.3 | 6 |
| 39 | Effects of surface tension on bubble growth in an extensive uniformly superheated liquid. Science Bulletin, 2011, 56, 3191. | 1.7 | 7 |
| 40 | Validation of full cavitation model in cryogenic fluids. Science Bulletin, 2009, 54, 1633-1640. | 4.3 | 20 |
| 41 | Computational fluid dynamic simulation of an inter-phasing pulse tube cooler. Journal of Zhejiang University: Science A, 2008, 9, 93-98. | 1.3 | 6 |