

# Zhiyi Yu

## List of Publications by Year in descending order

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24  
papers

474  
citations

759233

12  
h-index

677142

22  
g-index

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24  
docs citations

24  
times ranked

185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic Design of Rotodynamic Pump Impeller for Multiphase Pumping by Combined Approach of Inverse Design and CFD Analysis. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 330-338.	1.5	99
2	Interphase force analysis for air-water bubbly flow in a multiphase rotodynamic pump. <i>Engineering Computations</i> , 2015, 32, 2166-2180.	1.4	48
3	Influence of Tip Clearance on Pressure Fluctuation in Low Specific Speed Mixed-Flow Pump Passage. <i>Energies</i> , 2017, 10, 148.	3.1	40
4	Study of the Gas Distribution in a Multiphase Rotodynamic Pump Based on Interphase Force Analysis. <i>Energies</i> , 2018, 11, 1069.	3.1	36
5	Application of a non-uniform bubble model in a multiphase rotodynamic pump. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 1316-1322.	4.2	36
6	Effect of Virtual Mass Force on the Mixed Transport Process in a Multiphase Rotodynamic Pump. <i>Advances in Mechanical Engineering</i> , 2014, 6, 958352.	1.6	26
7	Numerical Study of Pressure Fluctuation in a Gas-Liquid Two-Phase Mixed-Flow Pump. <i>Energies</i> , 2017, 10, 634.	3.1	22
8	Numerical analysis of pressure fluctuation in a multiphase rotodynamic pump with air-water two-phase flow. <i>Oil and Gas Science and Technology</i> , 2019, 74, 18.	1.4	20
9	Characteristics of bubble motion and distribution in a multiphase rotodynamic pump. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107435.	4.2	20
10	Multiphase fluid dynamics and transport processes of low capillary number cavitating flows. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009, 25, 161-172.	3.4	16
11	Numerical Investigation of Combustion and Flow Dynamics in a High Velocity Oxygen-Fuel Thermal Spray Gun. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 441-450.	3.1	16
12	Analysis of flow and phase interaction characteristics in a gas-liquid two-phase pump. <i>Oil and Gas Science and Technology</i> , 2018, 73, 69.	1.4	15
13	Influence of impeller staggered arrangement on radial force and pressure fluctuation for a double-suction centrifugal pump. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401878146.	1.6	11
14	Multi-objective optimization of thermoeconomic and component size of supercritical carbon dioxide recompression cycle based on small-scale lead-cooled fast reactor. <i>International Journal of Energy Research</i> , 2022, 46, 13570-13589.	4.5	11
15	Analysis of bubble distribution in a multiphase rotodynamic pump. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 551-559.	3.1	9
16	Numerical analysis for the effect of tip clearance in a low specific speed mixed-flow pump. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983222.	1.6	9
17	Distribution and motion characteristics of bubbles in a multiphase rotodynamic pump based on modified non-uniform bubble model. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107569.	4.2	9
18	Numerical study of pressure fluctuation in the whole flow passage of a low specific speed mixed-flow pump. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401770765.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Drag coefficient modification for turbulent gas-liquid two-phase flow in a rotodynamic pump. <i>Chemical Engineering Journal</i> , 2021, 417, 128570.	12.7	8
20	Extended two-fluid model applied to analysis of bubbly flow in multiphase rotodynamic pump impeller. <i>Frontiers of Mechanical Engineering in China</i> , 2009, 4, 53-59.	0.4	4
21	Analysis of pressure fluctuations for oil-gas two-phase flow in a horizontal pipe using the bubble number density equation. <i>Chemical Engineering Communications</i> , 0, , 1-15.	2.6	3
22	Analysis of Tip Clearance Effect on the Transportation Characteristics of a Multiphase Rotodynamic Pump Based on the Non-Uniform Bubble Model. <i>Fluids</i> , 2022, 7, 58.	1.7	3
23	Effect of Shear-Thinning Property on the Energy Performance and Flow Field of an Axial Flow Pump. <i>Energies</i> , 2022, 15, 2341.	3.1	3
24	Analysis of bubble distribution characteristics in a multiphase rotodynamic pump. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 062026.	0.3	2