Zhiyi Yu

List of Publications by Year
in descending order

24 papers	474 citations	759233 12 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	185 citing authors

#	Article	IF	Citations
1	Analysis of Tip Clearance Effect on the Transportation Characteristics of a Multiphase Rotodynamic Pump Based on the Non-Uniform Bubble Model. Fluids, 2022, 7, 58.	1.7	3
2	Effect of Shear-Thinning Property on the Energy Performance and Flow Field of an Axial Flow Pump. Energies, 2022, 15, 2341.	3.1	3
3	Multi‐objective optimization of thermoeconomic and component size of supercritical carbon dioxide recompression cycle based on small‐scale lead‐cooled fast reactor. International Journal of Energy Research, 2022, 46, 13570-13589.	4.5	11
4	Drag coefficient modification for turbulent gas-liquid two-phase flow in a rotodynamic pump. Chemical Engineering Journal, 2021, 417, 128570.	12.7	8
5	Distribution and motion characteristics of bubbles in a multiphase rotodynamic pump based on modified non-uniform bubble model. Journal of Petroleum Science and Engineering, 2020, 195, 107569.	4.2	9
6	Characteristics of bubble motion and distribution in a multiphase rotodynamic pump. Journal of Petroleum Science and Engineering, 2020, 193, 107435.	4.2	20
7	Analysis of bubble distribution characteristics in a multiphase rotodynamic pump. IOP Conference Series: Earth and Environmental Science, 2019, 240, 062026.	0.3	2
8	Analysis of bubble distribution in a multiphase rotodynamic pump. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 551-559.	3.1	9
9	Numerical analysis of pressure fluctuation in a multiphase rotodynamic pump with air‐water two-phase flow. Oil and Gas Science and Technology, 2019, 74, 18.	1.4	20
10	Numerical analysis for the effect of tip clearance in a low specific speed mixed-flow pump. Advances in Mechanical Engineering, 2019, 11, 168781401983222.	1.6	9
11	Application of a non-uniform bubble model in a multiphase rotodynamic pump. Journal of Petroleum Science and Engineering, 2019, 173, 1316-1322.	4.2	36
12	Analysis of flow and phase interaction characteristics in a gas-liquid two-phase pump. Oil and Gas Science and Technology, 2018, 73, 69.	1.4	15
13	Influence of impeller staggered arrangement on radial force and pressure fluctuation for a double-suction centrifugal pump. Advances in Mechanical Engineering, 2018, 10, 168781401878146.	1.6	11
14	Study of the Gas Distribution in a Multiphase Rotodynamic Pump Based on Interphase Force Analysis. Energies, 2018, 11, 1069.	3.1	36
15	Numerical study of pressure fluctuation in the whole flow passage of a low specific speed mixed-flow pump. Advances in Mechanical Engineering, 2017, 9, 168781401770765.	1.6	8
16	Influence of Tip Clearance on Pressure Fluctuation in Low Specific Speed Mixed-Flow Pump Passage. Energies, 2017, 10, 148.	3.1	40
17	Numerical Study of Pressure Fluctuation in a Gas- Liquid Two-Phase Mixed-Flow Pump. Energies, 2017, 10, 634.	3.1	22
18	Numerical Investigation of Combustion and Flow Dynamics in a High Velocity Oxygen-Fuel Thermal Spray Gun. Journal of Thermal Spray Technology, 2016, 25, 441-450.	3.1	16

#	Article	IF	Citations
19	Interphase force analysis for air-water bubbly flow in a multiphase rotodynamic pump. Engineering Computations, 2015, 32, 2166-2180.	1.4	48
20	Effect of Virtual Mass Force on the Mixed Transport Process in a Multiphase Rotodynamic Pump. Advances in Mechanical Engineering, 2014, 6, 958352.	1.6	26
21	Multiphase fluid dynamics and transport processes of low capillary number cavitating flows. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 161-172.	3.4	16
22	Extended two-fluid model applied to analysis of bubbly flow in multiphase rotodynamic pump impeller. Frontiers of Mechanical Engineering in China, 2009, 4, 53-59.	0.4	4
23	Hydrodynamic Design of Rotodynamic Pump Impeller for Multiphase Pumping by Combined Approach of Inverse Design and CFD Analysis. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 330-338.	1.5	99
24	Analysis of pressure fluctuations for oil-gas two-phase flow in a horizontal pipe using the bubble number density equation. Chemical Engineering Communications, 0, , 1-15.	2.6	3