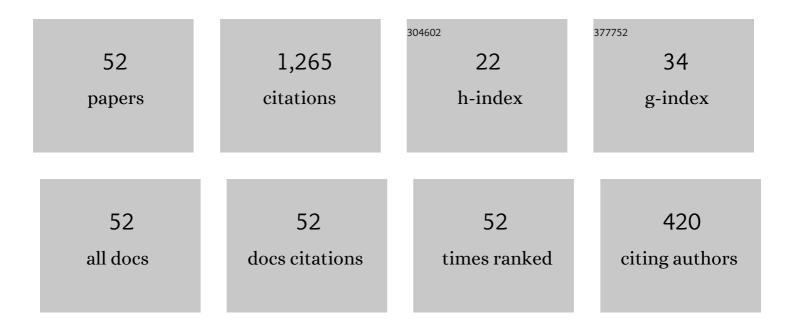
Xiaojun Li

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5043364/publications.pdf Version: 2024-02-01



XIAOUINL

#	Article	IF	CITATIONS
1	Effects of flow pattern on hydraulic performance and energy conversion characterisation in a centrifugal pump. Renewable Energy, 2020, 151, 475-487.	4.3	88
2	Entropy generation analysis for the cavitating head-drop characteristic of a centrifugal pump. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4637-4646.	1.1	85
3	Numerical and Experimental Analysis of Flow Phenomena in a Centrifugal Pump Operating Under Low Flow Rates. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	0.8	84
4	Theoretical, experimental, and numerical methods to predict the best efficiency point of centrifugal pump as turbine. Renewable Energy, 2021, 168, 31-44.	4.3	64
5	Experimental and numerical investigations of head-flow curve instability of a single-stage centrifugal pump with volute casing. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 633-647.	0.8	55
6	Effect of the blade loading distribution on hydrodynamic performance of a centrifugal pump with cylindrical blades. Journal of Mechanical Science and Technology, 2018, 32, 1161-1170.	0.7	55
7	Extended compressible thermal cavitation model for the numerical simulation of cryogenic cavitating flow. International Journal of Hydrogen Energy, 2020, 45, 10104-10118.	3.8	51
8	Calculation of cavitation evolution and associated turbulent kinetic energy transport around a NACA66 hydrofoil. Journal of Mechanical Science and Technology, 2019, 33, 1231-1241.	0.7	49
9	Numerical simulation of cryogenic cavitating flow by an extended transport-based cavitation model with thermal effects. Cryogenics, 2018, 92, 98-104.	0.9	44
10	Application of enstrophy dissipation to analyze energy loss in a centrifugal pump as turbine. Renewable Energy, 2021, 163, 41-55.	4.3	43
11	Numerical simulation of leading edge cavitation within the whole flow passage of a centrifugal pump. Science China Technological Sciences, 2013, 56, 2156-2162.	2.0	41
12	An experimental study on the cavitation vibration characteristics of a centrifugal pump at normal flow rate. Journal of Mechanical Science and Technology, 2018, 32, 4711-4720.	0.7	40
13	Numerical investigation of attached cavitating flow in thermo-sensitive fluid with special emphasis on thermal effect and shedding dynamics. International Journal of Hydrogen Energy, 2019, 44, 3170-3184.	3.8	40
14	Multiscale modeling of tip-leakage cavitating flows by a combined volume of fluid and discrete bubble model. Physics of Fluids, 2021, 33, .	1.6	36
15	An energy consumption improvement method for centrifugal pump based on bionic optimization of blade trailing edge. Energy, 2022, 246, 123323.	4.5	34
16	Numerical modeling of multiphase flow in gas stirred ladles: From a multiscale point of view. Powder Technology, 2020, 373, 14-25.	2.1	29
17	Statistical characteristics of suction pressure signals for a centrifugal pump under cavitating conditions. Journal of Thermal Science, 2017, 26, 47-53.	0.9	28
18	Influence of Impeller Sinusoidal Tubercle Trailing-Edge on Pressure Pulsation in a Centrifugal Pump at Nominal Flow Rate. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	26

Xiaojun Li

#	Article	IF	CITATIONS
19	Investigation of flow pattern and hydraulic performance of a centrifugal pump impeller through the PIV method. Renewable Energy, 2020, 162, 561-574.	4.3	25
20	Numerical and experimental studies on hydrodynamic characteristics of sleeve regulating valves. Flow Measurement and Instrumentation, 2017, 53, 279-285.	1.0	24
21	Investigation of flow instability characteristics in a low specific speed centrifugal pump using a modified partially averaged Navier–Stokes model. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 834-848.	0.8	24
22	Instability analysis under part-load conditions in centrifugal pump. Journal of Mechanical Science and Technology, 2019, 33, 269-278.	0.7	24
23	Numerical investigation on the evolution of forces and energy features in thermo-sensitive cavitating flow. European Journal of Mechanics, B/Fluids, 2020, 84, 233-249.	1.2	24
24	Quantification of wake unsteadiness for low-Re flow across two staggered cylinders. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6892-6909.	1.1	20
25	Investigations of energy distribution and loss characterization in a centrifugal impeller through PIV experiment. Ocean Engineering, 2022, 247, 110773.	1.9	19
26	Thermal performance comparison of oscillating heat pipes with and without helical micro-grooves. Heat and Mass Transfer, 2017, 53, 3383-3390.	1.2	16
27	Numerical investigation of transient liquid nitrogen cavitating flows with special emphasis on force evolution and entropy features. Cryogenics, 2021, 113, 103225.	0.9	16
28	Large eddy simulation of tip-leakage cavitating flow using a multiscale cavitation model and investigation on model parameters. Physics of Fluids, 2021, 33, .	1.6	16
29	Condensation flow patterns and heat transfer correction for zeotropic hydrocarbon mixtures in a helically coiled tube. International Journal of Heat and Mass Transfer, 2019, 143, 118500.	2.5	15
30	The Role of Blade Sinusoidal Tubercle Trailing Edge in a Centrifugal Pump with Low Specific Speed. Processes, 2019, 7, 625.	1.3	15
31	Numerical analysis of thermo-sensitive cavitating flows with special emphasises on flow separation and enstrophy conversion. International Communications in Heat and Mass Transfer, 2021, 125, 105336.	2.9	14
32	Axial thrust instability analysis and estimation theory of high speed centrifugal pump. Physics of Fluids, 2022, 34, .	1.6	13
33	Dynamic Characteristics of Rotating Stall in Mixed Flow Pump. Journal of Applied Mathematics, 2013, 2013, 1-12.	0.4	12
34	Evaluation of vorticity forces in thermo-sensitive cavitating flow considering the local compressibility. International Communications in Heat and Mass Transfer, 2021, 120, 105008.	2.9	11
35	Investigation of Flow Separation Characteristics in a Pump as Turbines Impeller Under the Best Efficiency Point Condition. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	11
36	Time-Resolved Particle Image Velocimetry Measurements and Proper Orthogonal Decomposition Analysis of Unsteady Flow in a Centrifugal Impeller Passage. Frontiers in Energy Research, 2022, 9, .	1.2	11

Xiaojun Li

#	Article	IF	CITATIONS
37	Prediction of particle distribution and particle impact erosion in inclined cavities. Powder Technology, 2017, 305, 562-571.	2.1	10
38	Hydraulic Performance Optimization of Pump Impeller Based on a Joint of Particle Swarm Algorithm and Least-Squares Support Vector Regression. IEEE Access, 2020, 8, 203645-203654.	2.6	8
39	Boundary Vorticity Analysis and Shedding Dynamics of Transient Cavitation Flow Around a Twisted Hydrofoil. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	0.8	8
40	Investigation of unsteady flow in a centrifugal pump at low flow rate. Advances in Mechanical Engineering, 2016, 8, 168781401668215.	0.8	7
41	Investigation of flow separation in a centrifugal pump impeller based on improved delayed detached eddy simulation method. Advances in Mechanical Engineering, 2019, 11, 168781401989783.	0.8	6
42	Numerical Simulation of Fine Particle Solid-Liquid Two-Phase Flow in a Centrifugal Pump. Shock and Vibration, 2021, 2021, 1-10.	0.3	6
43	An improved turbulence model for separation flow in a centrifugal pump. Advances in Mechanical Engineering, 2016, 8, 168781401665331.	0.8	5
44	The Tip Clearance Cavitation Mechanism of a High-Speed Centrifugal Pump with a Splitter-Bladed Inducer. Processes, 2021, 9, 1576.	1.3	5
45	Instability analysis for a centrifugal pump with straight inlet pipe using partially averaged Navier–Stokes model. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 211-226.	0.8	4
46	Study on calculation method of condensation heat transfer for non-azeotropic hydrocarbon mixtures in helically coiled tubes. Journal of Thermal Analysis and Calorimetry, 2020, 141, 177-186.	2.0	1
47	Numerical simulation of rotating channel flow based on a modified DES model. Modern Physics Letters B, 2021, 35, 2150193.	1.0	1
48	Wear Characteristics of Dense Fine Particles Solid-Liquid Two-Phase Fluid Centrifugal Pump with Open Impellers. Shock and Vibration, 2021, 2021, 1-13.	0.3	1
49	Correlation between the Internal Flow Pattern and the Blade Load Distribution of the Centrifugal Impeller. Machines, 2022, 10, 40.	1.2	1
50	Numerical Investigation on Periodic Flow Unsteadiness in a Centrifugal Pump With Volute. , 2013, , .		0
51	Effect of Rotation Speed and Flow Rate on Slip Factor in a Centrifugal Pump. Shock and Vibration, 2021, 2021, 1-14.	0.3	0
52	Numerical simulation of cavitating flow around a twist hydrofoil focusing on the erosion behaviour. Journal of Physics: Conference Series, 2022, 2217, 012011.	0.3	0