Liang Dong

List of Publications by Year
in descending order

27	196	1163117 8	1199594 12
papers	citations	h-index	g-index

27	27	27	111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study on Noise Characteristics of Marine Centrifugal Pump Under Different Cavitation Stages. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2022, 46, 209-223.	1.3	5
2	Experimental Study of a Gas-Liquid-Solid Three-Phase Flow in an Aeration Tank Driven by an Inverted Umbrella Aerator. Processes, 2022, 10, 1278.	2.8	2
3	Structural Optimization of a Muffler for a Marine Pumping System Based on Numerical Calculation. Journal of Marine Science and Engineering, 2022, 10, 937.	2.6	1
4	Analysis of the Influence of Different Bionic Structures on the Noise Reduction Performance of the Centrifugal Pump. Sensors, 2021, 21, 886.	3.8	14
5	Collaborative improvement of efficiency and noise of bionic vane centrifugal pump based on multi-objective optimization. Advances in Mechanical Engineering, 2021, 13, 168781402199497.	1.6	7
6	Study on Drag and Noise Reduction of Bionic Blade of Centrifugal Pump and Mechanism. Journal of Bionic Engineering, 2021, 18, 428-440.	5.0	12
7	Study on Vibration Characteristics of Marine Centrifugal Pump Unit Excited by Different Excitation Sources. Journal of Marine Science and Engineering, 2021, 9, 274.	2.6	13
8	Optimization of Aeration Performance for Inverted Umbrella Aerator Based on Response Surface Methodology. Journal of Chemical Engineering of Japan, 2021, 54, 358-368.	0.6	0
9	A Hydraulic Performance Comparison of Centrifugal Pump Operating in Pump and Turbine Modes. Journal of Thermal Science, 2020, 29, 1594-1605.	1.9	5
10	Experimental Study on Aeration Performance and Bubble Characteristics of Inverted Umbrella Aerator. Water (Switzerland), 2020, 12, 2809.	2.7	6
11	Research and Application of Filtering Grid Scale in Detached Eddy Simulation Model. Symmetry, 2020, 12, 1252.	2.2	0
12	Numerical simulation of the gasâ€“liquid two-phase flow in aeration tank based on different multiphase models. Journal of Physics: Conference Series, 2020, 1600, 012084.	0.4	0
13	Study and Verification of Large-Scale Parallel Mesh Generation Algorithm for Centrifugal Pump. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	1
14	Experimental Study and Numerical Simulation of Gasâ€“Liquid Two-Phase Flow in Aeration Tank Based on CFD-PBM Coupled Model. Water (Switzerland), 2020, 12, 1569.	2.7	8
15	Prediction of Aeration Performance for Inverted Umbrella Aerator Based on Dimensional Analysis. Journal of Chemical Engineering of Japan, 2019, 52, 369-376.	0.6	6
16	Study on Unstable Characteristics of Centrifugal Pump under Different Cavitation Stages. Journal of Thermal Science, 2019, 28, 608-620.	1.9	19
17	Study on the internal two-phase flow of the inverted-umbrella aerator. Advances in Mechanical Engineering, 2019, 11, 168781401987173.	1.6	8
18	Cavitation Detection in Centrifugal Pump Based on Interior Flow-Borne Noise Using WPD-PCA-RBF. Shock and Vibration, 2019, 2019, 1-12.	0.6	5

#	Article	IF	Citations
19	Detection of Inception Cavitation in Centrifugal Pump by Fluid-Borne Noise Diagnostic. Shock and Vibration, 2019, 2019, 1-15.	0.6	15
20	Noise comparison of centrifugal pump operating in pump and turbine mode. Journal of Central South University, 2018, 25, 2733-2753.	3.0	12
21	Research on cavitation acoustic characteristics of centrifugal pump based on fluid-acoustic field coupling method. Advances in Mechanical Engineering, 2018, 10, 168781401877366.	1.6	7
22	The effect of front streamline wrapping angle variation in a super-low specific speed centrifugal pump. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4301-4311.	2.1	8
23	Design and analysis of a radial diffuser in a single-stage centrifugal pump. Engineering Applications of Computational Fluid Mechanics, 2016, 10, 500-511.	3.1	11
24	Effects of mesh style and grid convergence on numerical simulation accuracy of centrifugal pump. Journal of Central South University, 2015, 22, 368-376.	3.0	10
25	Pressure fluctuation and its influencing factors in circulating water pump. Journal of Central South University, 2013, 20, 149-155.	3.0	20
26	Optimum Design for Suction Chambers of Pipeline Pumps Based on Uniform Design and CFD. , 2009, , .		0
27	Experimental and Internal Flow Investigation on the Performance of a Hydraulic Retarder with Different Liquid-Filled Amount and Blade Inclination Angles. Journal of Thermal Science, 0, , 1.	1.9	1