Zhang Renhui

List of Publications by Year
in descending order

16 papers	94 citations	1478505 6 h-index	1474206 9 g-index
16 all docs	16 docs citations	16 times ranked	42 citing authors

#	Article	IF	Citations
1	Evaluation of different turbulence models on simulation of gas-liquid transient flow in a liquid-ring vacuum pump. Vacuum, 2020, 180, 109586.	3.5	18
2	Knowledge Mining of Low Specific Speed Centrifugal Pump Impeller Based on Proper Orthogonal Decomposition Method. Journal of Thermal Science, 2021, 30, 840-848.	1.9	13
3	Effect of Impeller Inlet Geometry on Cavitation Performance of Centrifugal Pumps Based on Radial Basis Function. International Journal of Rotating Machinery, 2016, 2016, 1-9.	0.8	12
4	Experimental study on gas-liquid transient flow in liquid-ring vacuum pump and its hydraulic excitation. Vacuum, 2020, 171, 109025.	3.5	12
5	Reconstruction and Prediction of Flow Field Fluctuation Intensity and Flow-Induced Noise in Impeller Domain of Jet Centrifugal Pump Using Gappy POD Method. Energies, 2019, 12, 111.	3.1	9
6	The axial tip clearance leakage analysis of the winglet and composite blade tip for the liquid-ring vacuum pump. Vacuum, 2022, 200, 111027.	3.5	6
7	Gas-liquid two-phase flow in the axial clearance of liquid-ring pumps. Journal of Mechanical Science and Technology, 2020, 34, 791-800.	1.5	5
8	A comparative study of Gaussian process regression with other three machine learning approaches in the performance prediction of centrifugal pump. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 3938-3949.	2.1	4
9	Numerical Study of the Unsteady Flow Characteristics of a Jet Centrifugal Pump under Multiple Conditions. Processes, 2019, 7, 786.	2.8	3
10	Inverse Method of Centrifugal Pump Blade Based on Gaussian Process Regression. Mathematical Problems in Engineering, 2020, 2020, 1-10.	1.1	3
11	Experimental study on pressure fluctuation characteristics of gasâ€“liquid flow in liquid ring vacuum pump. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	3
12	Optimization design of centrifugal pump impeller based on multi-output Gaussian process regression. Modern Physics Letters B, 2021, 35, 2150364.	1.9	2
13	Performance optimization of liquid ring pumps based on Gappy POD surrogate model. Modern Physics Letters B, 2022, 36, .	1.9	2
14	The Action Mechanism of Rotorâ€“Stator Interaction on Hydraulic and Hydroacoustic Characteristics of a Jet Centrifugal Pump Impeller and Performance Improvement. Water (Switzerland), 2020, 12, 465.	2.7	1
15	The action mechanism of rotorâ€“stator interaction on the hydraulic and hydroacoustic characteristics of the guide vane in a jet centrifugal pump. Modern Physics Letters B, 2020, 34, 2050396.	1.9	1
16	Research on inner flow and energy characteristics of air ejector for liquid-ring vacuum pump. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 0, , 095765092211096.	1.4	0