

# Zhang Renhui

## List of Publications by Year in descending order

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16  
papers

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citations

1478505

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1474206

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all docs

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docs citations

16  
times ranked

42  
citing authors

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