

Guangtai Shi

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

209
citations

1039880

9
h-index

1058333

14
g-index

18
all docs

18
docs citations

18
times ranked

94
citing authors

#	ARTICLE	IF	CITATIONS
1	Tip leakage vortex trajectory and dynamics in a multiphase pump at off-design condition. <i>Renewable Energy</i> , 2020, 150, 703-711.	4.3	36
2	Effect of the inlet gas void fraction on the tip leakage vortex in a multiphase pump. <i>Renewable Energy</i> , 2020, 150, 46-57.	4.3	25
3	Enstrophy dissipation of the tip leakage vortex in a multiphase pump. <i>Physics of Fluids</i> , 2022, 34, .	1.6	25
4	Research on energy conversion characteristic of pump as turbine. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877083.	0.8	20
5	Slurry Flow and Erosion Prediction in a Centrifugal Pump after Long-Term Operation. <i>Energies</i> , 2019, 12, 1523.	1.6	17
6	Conversion relation of centrifugal pumps as hydraulic turbines based on the amplification coefficient. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769620.	0.8	12
7	Characteristics of unsteady excitation induced by cavitation in axial-flow oil-gas multiphase pumps. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877126.	0.8	12
8	Velocity characteristics in a multiphase pump under different tip clearances. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021, 235, 454-475.	0.8	11
9	Effect of Tip Clearance on Helico-Axial Flow Pump Performance at Off-Design Case. <i>Processes</i> , 2021, 9, 1653.	1.3	10
10	Transport Performance Improvement of a Multiphase Pump for Gas-Liquid Mixture Based on the Orthogonal Test Method. <i>Processes</i> , 2021, 9, 1402.	1.3	9
11	Phase Distribution in the Tip Clearance of a Multiphase Pump at Multiple Operating Points and Its Effect on the Pressure Fluctuation Intensity. <i>Processes</i> , 2021, 9, 556.	1.3	7
12	Effect of the Gas Volume Fraction on the Pressure Load of the Multiphase Pump Blade. <i>Processes</i> , 2021, 9, 650.	1.3	6
13	Flow Characteristics and Energy Loss within the Static Impeller of Multiphase Pump. <i>Processes</i> , 2021, 9, 1025.	1.3	5
14	Theoretical research of hydraulic turbine performance based on slip factor within centripetal impeller. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401559386.	0.8	4
15	Flow behaviors in a Kaplan turbine runner with different tip clearances. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110158.	0.8	4
16	Effect of Gas Volume Fraction on the Gas-Phase Distribution in the Passage and Blade Surface of the Axial Flow Screw-Type Oil-Gas Multiphase Pump. <i>Processes</i> , 2021, 9, 760.	1.3	2
17	Effect of the Inlet Gas Void Fraction on the Work Performance of the Multiphase Pump at Different Cavitation Stages. <i>Processes</i> , 2021, 9, 1006.	1.3	2
18	Effect of the inlet gas volume fraction on the turbulent dissipation characteristics in the multiphase pump. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 2242-2255.	1.1	2