Guangtai Shi

List of Publications by Year
in descending order

18 papers	209 citations	1039406 9 h-index	1058022 14 g-index
18 all docs	18 docs citations	18 times ranked	94 citing authors

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