

Hui-Xiang Chen

List of Publications by Year in descending order

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papers

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docs citations

27
times ranked

192
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective shape optimization of siphon outlet in pumping station considering two-phase flow. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2023, 237, 270-283.	1.4	3
2	Pump as turbine cavitation performance for both conventional and reverse operating modes: A review. Renewable and Sustainable Energy Reviews, 2022, 168, 112786.	16.4	63
3	Energy loss mechanisms of transition from pump mode to turbine mode of an axial-flow pump under bidirectional conditions. Energy, 2022, 257, 124630.	8.8	56
4	Transient characteristics during power-off process in a shaft extension tubular pump by using a suitable numerical model. Renewable Energy, 2021, 164, 109-121.	8.9	89
5	Transient characteristics during the co-closing guide vanes and runner blades of a bulb turbine in load rejection process. Renewable Energy, 2021, 165, 28-41.	8.9	21
6	Investigation into Pump Mode Flow Dynamics for a Mixed Flow PAT with Adjustable Runner Blades. Energies, 2021, 14, 2690.	3.1	5
7	Experimental study on load rejection process of a model tubular turbine. IOP Conference Series: Earth and Environmental Science, 2021, 774, 012036.	0.3	2
8	A Numerical Investigation into the PAT Hydrodynamic Response to Impeller Rotational Speed Variation. Sustainability, 2021, 13, 7998.	3.2	7
9	Development and Numerical Performance Analysis of a Micro Turbine in a Tap-Water Pipeline. Sustainability, 2021, 13, 10755.	3.2	3
10	Cost advantage of adjustable-speed pumped storage unit for daily operation in distributed hybrid system. Renewable Energy, 2021, 176, 1-10.	8.9	18
11	Investigations of the thermodynamic entropy evaluation in a hydraulic turbine under various operating conditions. Renewable Energy, 2021, 180, 1026-1043.	8.9	20
12	Flow instability transferability characteristics within a reversible pump turbine (RPT) under large guide vane opening (GVO). Renewable Energy, 2021, 179, 285-307.	8.9	21
13	Study on a horizontal axial flow pump during runaway process with bidirectional operating conditions. Scientific Reports, 2021, 11, 21834.	3.3	17
14	Numerical simulation and experimental study of transient characteristics in an axial flow pump during start-up. Renewable Energy, 2020, 146, 1879-1887.	8.9	64
15	Two-Way Fluid-Solid Interaction Analysis for a Horizontal Axis Marine Current Turbine with LES. Water (Switzerland), 2020, 12, 98.	2.7	8
16	Numerical simulation of transient flow in a shaft extension tubular pump unit during runaway process caused by power failure. Renewable Energy, 2020, 154, 1153-1164.	8.9	47
17	Investigation of Cavitation Noise in Cavitating Flows around an NACA0015 Hydrofoil. Applied Sciences (Switzerland), 2019, 9, 3736.	2.5	11
18	Study of Hydraulic Disturbances From Single-Unit Load Rejection in a Pumped-Storage Hydropower Station With a Shared Water Delivery System. IEEE Access, 2019, 7, 153382-153390.	4.2	5

#	ARTICLE	IF	CITATIONS
19	Study into the Improvement of Dynamic Stress Characteristics and Prototype Test of an Impeller Blade of an Axial-Flow Pump Based on Bidirectional Fluid-Structure Interaction. Applied Sciences (Switzerland), 2019, 9, 3601.	2.5	14
20	Numerical Study on Flow Characteristics in a Francis Turbine during Load Rejection. Energies, 2019, 12, 716.	3.1	8
21	Development and Numerical Performance Analysis of a Pump Directly Driven by a Hydrokinetic Turbine. Energies, 2019, 12, 4264.	3.1	5
22	Research on Hydraulic Characteristics in Diversion Pipelines under a Load Rejection Process of a PSH Station. Water (Switzerland), 2019, 11, 44.	2.7	5
23	Load Rejection Transient Process Simulation of a Kaplan Turbine Model by Co-Adjusting Guide Vanes and Runner Blades. Energies, 2018, 11, 3354.	3.1	18
24	Investigation of Pumped Storage Hydropower Power-Off Transient Process Using 3D Numerical Simulation Based on SP-VOF Hybrid Model. Energies, 2018, 11, 1020.	3.1	34
25	Design and development of an eco-gate pump installation based on computational fluid dynamics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2636-2649.	2.1	6
26	A highly efficient Francis turbine designed for energy recovery in cooling towers. Advances in Mechanical Engineering, 2015, 7, 168781401557597.	1.6	8