

# Hui-Xiang Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

558  
citations

687363

13  
h-index

642732

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient characteristics during power-off process in a shaft extension tubular pump by using a suitable numerical model. <i>Renewable Energy</i> , 2021, 164, 109-121.	8.9	89
2	Numerical simulation and experimental study of transient characteristics in an axial flow pump during start-up. <i>Renewable Energy</i> , 2020, 146, 1879-1887.	8.9	64
3	Pump as turbine cavitation performance for both conventional and reverse operating modes: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 168, 112786.	16.4	63
4	Energy loss mechanisms of transition from pump mode to turbine mode of an axial-flow pump under bidirectional conditions. <i>Energy</i> , 2022, 257, 124630.	8.8	56
5	Numerical simulation of transient flow in a shaft extension tubular pump unit during runaway process caused by power failure. <i>Renewable Energy</i> , 2020, 154, 1153-1164.	8.9	47
6	Investigation of Pumped Storage Hydropower Power-Off Transient Process Using 3D Numerical Simulation Based on SP-VOF Hybrid Model. <i>Energies</i> , 2018, 11, 1020.	3.1	34
7	Transient characteristics during the co-closing guide vanes and runner blades of a bulb turbine in load rejection process. <i>Renewable Energy</i> , 2021, 165, 28-41.	8.9	21
8	Flow instability transferability characteristics within a reversible pump turbine (RPT) under large guide vane opening (GVO). <i>Renewable Energy</i> , 2021, 179, 285-307.	8.9	21
9	Investigations of the thermodynamic entropy evaluation in a hydraulic turbine under various operating conditions. <i>Renewable Energy</i> , 2021, 180, 1026-1043.	8.9	20
10	Load Rejection Transient Process Simulation of a Kaplan Turbine Model by Co-Adjusting Guide Vanes and Runner Blades. <i>Energies</i> , 2018, 11, 3354.	3.1	18
11	Cost advantage of adjustable-speed pumped storage unit for daily operation in distributed hybrid system. <i>Renewable Energy</i> , 2021, 176, 1-10.	8.9	18
12	Study on a horizontal axial flow pump during runaway process with bidirectional operating conditions. <i>Scientific Reports</i> , 2021, 11, 21834.	3.3	17
13	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. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3601.	2.5	14
14	Investigation of Cavitation Noise in Cavitating Flows around an NACA0015 Hydrofoil. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3736.	2.5	11
15	A highly efficient Francis turbine designed for energy recovery in cooling towers. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557597.	1.6	8
16	Numerical Study on Flow Characteristics in a Francis Turbine during Load Rejection. <i>Energies</i> , 2019, 12, 716.	3.1	8
17	Two-Way Fluid-Structure Interaction Analysis for a Horizontal Axis Marine Current Turbine with LES. <i>Water (Switzerland)</i> , 2020, 12, 98.	2.7	8
18	A Numerical Investigation into the PAT Hydrodynamic Response to Impeller Rotational Speed Variation. <i>Sustainability</i> , 2021, 13, 7998.	3.2	7

#	ARTICLE	IF	CITATIONS
19	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
20	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
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	Investigation into Pump Mode Flow Dynamics for a Mixed Flow PAT with Adjustable Runner Blades. Energies, 2021, 14, 2690.	3.1	5
24	Development and Numerical Performance Analysis of a Micro Turbine in a Tap-Water Pipeline. Sustainability, 2021, 13, 10755.	3.2	3
25	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
26	Experimental study on load rejection process of a model tubular turbine. IOP Conference Series: Earth and Environmental Science, 2021, 774, 012036.	0.3	2