Hong-Jie Wang

List of Publications by Year
in descending order

66	1,698	304743 22	302126 39
papers	citations	h-index	g-index

71	71	71	614
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropy production analysis of hysteresis characteristic of a pump-turbine model. Energy Conversion and Management, 2017, 149, 175-191.	9.2	217
2	Application of entropy production theory to hydro-turbine hydraulic analysis. Science China Technological Sciences, 2013, 56, 1636-1643.	4.0	102
3	Unsteady simulation and analysis for hump characteristics of a pump turbine model. Renewable Energy, 2015, 77, 32-42.	8.9	84
4	Transient characteristics during the closure of guide vanes in a pump-turbine in pump mode. Renewable Energy, 2018, 118, 973-983.	8.9	82
5	Numerical simulation of hysteresis characteristic in the hump region of a pump-turbine model. Renewable Energy, 2018, 115, 433-447.	8.9	80
6	Entropy production analysis for hump characteristics of a pump turbine model. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 803-812.	3.7	68
7	Degradation of tetrabromobisphenol A by ferrate(VI) oxidation: Performance, inorganic and organic products, pathway and toxicity control. Chemosphere, 2018, 198, 92-102.	8.2	66
8	Mechanism of high amplitude low frequency fluctuations in a pump-turbine in pump mode. Renewable Energy, 2018, 126, 668-680.	8.9	57
9	Investigation methods for analysis of transient phenomena concerning design and operation of hydraulic-machine systemsâ€”A review. Renewable and Sustainable Energy Reviews, 2019, 101, 26-46.	16.4	57
10	Effect mechanism of cavitation on the hump characteristic of a pump-turbine. Renewable Energy, 2021, 167, 369-383.	8.9	55
11	Review of positive slopes on pump performance characteristics of pump-turbines. Renewable and Sustainable Energy Reviews, 2019, 112, 901-916.	16.4	51
12	Influence of the clearance flow on the load rejection process in a pump-turbine. Renewable Energy, 2018, 127, 310-321.	8.9	40
13	Mechanism of low frequency high amplitude pressure fluctuation in a pump-turbine during the load rejection process. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 280-297.	1.7	31
14	Optimization of blade high-pressure edge to reduce pressure fluctuations in pump-turbine hump region. Renewable Energy, 2022, 181, 24-38.	8.9	31
15	Multi-objective optimization design on high pressure side of a pump-turbine runner with high efficiency. Renewable Energy, 2022, 190, 103-120.	8.9	31
16	Energy Analysis in a Pump-Turbine During the Load Rejection Process. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	30
17	Numerical investigation on transient flow of a high head low specific speed pump-turbine in pump mode. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	28
18	Flow characteristics prediction in pump mode of a pump turbine using large eddy simulation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 961-977.	2.5	28

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19	Evolution mechanism of a prototype pump turbine after pump power-off. Physics of Fluids, 2021, 33, .	4.0	28
20	Dynamic analysis on pressure fluctuation in vaneless region of a pump turbine. Science China Technological Sciences, 2015, 58, 813-824.	4.0	27
21	Analysis of transient flow in a pump-turbine during the load rejection process. Journal of Mechanical Science and Technology, 2018, 32, 2069-2078.	1.5	26
22	Numerical Simulation on Pump Transient Characteristic in a Model Pump Turbine. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	25
23	Analysis of vorticity dynamics for hump characteristics of a pump turbine model. Journal of Mechanical Science and Technology, 2016, 30, 3641-3650.	1.5	22
24	Analytical solution of Reynolds equation under dynamic conditions. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 416-427.	1.8	21
25	Analysis of Pressure Fluctuations in a Prototype Pump-Turbine with Different Numbers of Runner Blades in Turbine Mode. Energies, 2018, 11, 1474.	3.1	21
26	Dynamic instability of a pump-turbine in load rejection transient process. Science China Technological Sciences, 2018, 61, 1765-1775.	4.0	21
27	Cavitation effects on pressure fluctuation in pump-turbine hump region. Journal of Energy Storage, 2022, 47, 103936.	8.1	21
28	Numerical study of the hydrofoil cavitation flow with thermodynamic effects. Renewable Energy, 2021, 169, 894-904.	8.9	20
29	Investigation on hydraulic loss component and distribution in hydraulic machinery: A case study of pump-turbine in pump mode. Journal of Energy Storage, 2022, 52, 104932.	8.1	20
30	Hysteresis Characteristic in the Hump Region of a Pump-Turbine Model. Energies, 2016, 9, 620.	3.1	18
31	Fluid flow analysis of drooping phenomena in pump mode for a given guide vane setting of a pump-turbine model. Journal of Zhejiang University: Science A, 2015, 16, 851-863.	2.4	17
32	Numerical simulation of the transient flow in a pump-turbine during load rejection process with special emphasis on hydraulic acoustic effect. Renewable Energy, 2020, 155, 1127-1138.	8.9	17
33	Bionic leading-edge protuberances and hydrofoil cavitation. Physics of Fluids, 2021, 33, .	4.0	17
34	Numerical Simulation of the Transient Flow in a Pump-Turbine During the Load Rejection Process With Special Emphasis on the Cavitation Effect. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	17
35	Aerodynamic characteristics and mechanisms for bionic airfoils with different spacings. Physics of Fluids, 2021, 33, .	4.0	16
36	Thermodynamic effects on the cavitation flow of a liquid oxygen turbopump. Cryogenics, 2021, 116, 103302.	1.7	15

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37	Numerical Investigation in the Vaned Distributor under Different Guide Vanes Openings of a Pump Turbine in Pump Mode. Journal of Applied Fluid Mechanics, 2016, 9, 253-266.	0.2	15
38	Effects of propofol on myocardial ischemia-reperfusion injury in rats with type-2 diabetes mellitus. Biomedical Reports, 2017, 6, 69-74.	2.0	13
39	Experimental investigation of hysteresis on pump performance characteristics of a model pump-turbine with different guide vane openings. Renewable Energy, 2020, 149, 652-663.	8.9	13
40	One- and three-dimensional coupling flow simulations of pumped-storage power stations with complex long-distance water conveyance pipeline system. Journal of Cleaner Production, 2021, 315, 128228.	9.3	13
41	The Role of the Y Box Binding Protein 1 C-Terminal Domain in Vascular Endothelial Cell Proliferation, Apoptosis, and Angiogenesis. DNA and Cell Biology, 2016, 35, 24-32.	1.9	12
42	The impact of laryngeal mask versus other airways on perioperative respiratory adverse events in children: A systematic review and meta-analysis of randomized controlled trials. International Journal of Surgery, 2019, 64, 40-48.	2.7	11
43	Runner cone optimization to reduce vortex rope-induced pressure fluctuations in a Francis turbine. Science China Technological Sciences, 2021, 64, 1953-1970.	4.0	11
44	Involvement of Mitochondrial Dynamics and Mitophagy in Sevoflurane-Induced Cell Toxicity. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-7.	4.0	10
45	Spatio-temporal evolution mechanism of cavitation vortex ropes in a swirling flow. Physics of Fluids, 2021, 33, .	4.0	10
46	Hydraulic fluctuations during the pump power-off runaway transient process of a pump turbine with consideration of cavitation effects. Journal of Hydrodynamics, 2021, 33, 1162-1175.	3.2	9
47	A boundary vorticity diagnosis of the flows in a model pump-turbine in turbine mode. Renewable Energy, 2020, 153, 1465-1478.	8.9	8
48	Identification of Down-Regulated ADH1C is Associated With Poor Prognosis in Colorectal Cancer Using Bioinformatics Analysis. Frontiers in Molecular Biosciences, 2022, 9, 791249.	3.5	8
49	Cavitation mechanism in turbine runaway process of a pump-turbine. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 750-769.	1.7	8
50	Numerical simulation and rotor dynamic stability analysis on a large hydraulic turbine. Computers and Fluids, 2013, 88, 11-18.	2.5	6
51	Pressure fluctuation prediction in pump mode using large eddy simulation and unsteady Reynolds-averaged Navierâ€“Stokes in a pumpâ€“turbine. Advances in Mechanical Engineering, 2016, 8, 168781401665256.	1.6	5
52	Effects of propofol on LC3II and mTOR/pâ€˜mTOR expression during ischemiaâ€˜reperfusion myocardium injury in rats with type 2 diabetes mellitus. Experimental and Therapeutic Medicine, 2020, 19, 2441-2448.	1.8	5
53	Influence of geometric factors at runner outlet on the hump characteristics of a pump-turbine. Sustainable Energy Technologies and Assessments, 2022, 51, 101890.	2.7	5
54	Influence of clearance parameters on the rotor dynamic character of hydraulic turbine shaft system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 262-270.	2.1	3

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55	Effects of Heshouwuyin on gene expression of the insulin/IGF signalling pathway in rat testis and spermatogenic cells. Pharmaceutical Biology, 2020, 58, 1208-1219.	2.9	3
56	Influence of axial clearance on the performance characteristics of a turbopump. Journal of Mechanical Science and Technology, 2021, 35, 4543-4555.	1.5	3
57	Gastric Microbiota Alteration in Klebsiella pneumoniae-Caused Liver Abscesses Mice. Polish Journal of Microbiology, 2019, 68, 247-254.	1.7	3
58	Multi-objective co-optimization of the guide vane closure law and rotor inertia in pumped-storage power system. Journal of Renewable and Sustainable Energy, 2022, 14, .	2.0	3
59	Comparison of mRNA Expression of P2X Receptor Subtypes in Different Arterial Tissues of Rats. Biochemical Genetics, 2020, 58, 677-690.	1.7	2
60	Investigations on Pressure Fluctuations in the S-Shaped Region of a Pumpâ€“Turbine. Energies, 2021, 14, 6683.	3.1	2
61	Investigation on runner resonance and fatigue life of a highâ€“head pumpâ€“turbine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 5978-5993.	2.1	2
62	Effects of Reynolds Number and Protuberance Amplitude on Twin-Protuberance Airfoil Performance. AIAA Journal, 2022, 60, 3775-3788.	2.6	2
63	Influence of guide vane setting in pump mode on performance characteristics of a pump-turbine. IOP Conference Series: Earth and Environmental Science, 2016, 49, 042002.	0.3	1
64	Preparation of allylamine-grafted cellulose by Ce(IV): a desirable candidate of oral phosphate binders. Polymer Bulletin, 2021, 78, 2537-2552.	3.3	1
65	Two-dimensional correlation (2D) method for improving the accuracy of OCT-based noninvasive blood glucose concentration (BGC) monitoring. Lasers in Medical Science, 2021, 36, 1649-1659.	2.1	1
66	Mechanism and influence factors of hydraulic fluctuations in a pump-turbine. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 33-50.	1.4	1