

# Hong-Jie Wang

## List of Publications by Year in descending order

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66  
papers

1,698  
citations

304743

22  
h-index

302126

39  
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71  
all docs

71  
docs citations

71  
times ranked

614  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Optimization of blade high-pressure edge to reduce pressure fluctuations in pump-turbine hump region. Renewable Energy, 2022, 181, 24-38.	8.9	31
3	Cavitation effects on pressure fluctuation in pump-turbine hump region. Journal of Energy Storage, 2022, 47, 103936.	8.1	21
4	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
5	Investigation on runner resonance and fatigue life of a high-head pump-turbine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 5978-5993.	2.1	2
6	Effects of Reynolds Number and Protuberance Amplitude on Twin-Protuberance Airfoil Performance. AIAA Journal, 2022, 60, 3775-3788.	2.6	2
7	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
8	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
9	Cavitation mechanism in turbine runaway process of a pump-turbine. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 750-769.	1.7	8
10	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
11	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
12	Preparation of allylamine-grafted cellulose by Ce(IV): a desirable candidate of oral phosphate binders. Polymer Bulletin, 2021, 78, 2537-2552.	3.3	1
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	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
15	Involvement of Mitochondrial Dynamics and Mitophagy in Sevoflurane-Induced Cell Toxicity. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-7.	4.0	10
16	Effect mechanism of cavitation on the hump characteristic of a pump-turbine. Renewable Energy, 2021, 167, 369-383.	8.9	55
17	Numerical study of the hydrofoil cavitation flow with thermodynamic effects. Renewable Energy, 2021, 169, 894-904.	8.9	20
18	Thermodynamic effects on the cavitation flow of a liquid oxygen turbopump. Cryogenics, 2021, 116, 103302.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Aerodynamic characteristics and mechanisms for bionic airfoils with different spacings. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
20	Runner cone optimization to reduce vortex rope-induced pressure fluctuations in a Francis turbine. <i>Science China Technological Sciences</i> , 2021, 64, 1953-1970.	4.0	11
21	Bionic leading-edge protuberances and hydrofoil cavitation. <i>Physics of Fluids</i> , 2021, 33, .	4.0	17
22	One- and three-dimensional coupling flow simulations of pumped-storage power stations with complex long-distance water conveyance pipeline system. <i>Journal of Cleaner Production</i> , 2021, 315, 128228.	9.3	13
23	Investigations on Pressure Fluctuations in the S-Shaped Region of a Pump-Turbine. <i>Energies</i> , 2021, 14, 6683.	3.1	2
24	Spatio-temporal evolution mechanism of cavitation vortex ropes in a swirling flow. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
25	Influence of axial clearance on the performance characteristics of a turbopump. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 4543-4555.	1.5	3
26	Evolution mechanism of a prototype pump turbine after pump power-off. <i>Physics of Fluids</i> , 2021, 33, .	4.0	28
27	Hydraulic fluctuations during the pump power-off runaway transient process of a pump turbine with consideration of cavitation effects. <i>Journal of Hydrodynamics</i> , 2021, 33, 1162-1175.	3.2	9
28	Experimental investigation of hysteresis on pump performance characteristics of a model pump-turbine with different guide vane openings. <i>Renewable Energy</i> , 2020, 149, 652-663.	8.9	13
29	Effects of Heshouwuyin on gene expression of the insulin/IGF signalling pathway in rat testis and spermatogenic cells. <i>Pharmaceutical Biology</i> , 2020, 58, 1208-1219.	2.9	3
30	Comparison of mRNA Expression of P2X Receptor Subtypes in Different Arterial Tissues of Rats. <i>Biochemical Genetics</i> , 2020, 58, 677-690.	1.7	2
31	A boundary vorticity diagnosis of the flows in a model pump-turbine in turbine mode. <i>Renewable Energy</i> , 2020, 153, 1465-1478.	8.9	8
32	Numerical simulation of the transient flow in a pump-turbine during load rejection process with special emphasis on hydraulic acoustic effect. <i>Renewable Energy</i> , 2020, 155, 1127-1138.	8.9	17
33	Numerical Simulation of the Transient Flow in a Pump-Turbine During the Load Rejection Process With Special Emphasis on the Cavitation Effect. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	1.5	17
34	Effects of propofol on LC3II and mTOR/p-mTOR expression during ischemia-reperfusion myocardium injury in rats with type 2 diabetes mellitus. <i>Experimental and Therapeutic Medicine</i> , 2020, 19, 2441-2448.	1.8	5
35	Review of positive slopes on pump performance characteristics of pump-turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 901-916.	16.4	51
36	Numerical Simulation on Pump Transient Characteristic in a Model Pump Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	1.5	25

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37	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. <i>International Journal of Surgery</i> , 2019, 64, 40-48.	2.7	11
38	Investigation methods for analysis of transient phenomena concerning design and operation of hydraulic-machine systemsâ€”A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 26-46.	16.4	57
39	Gastric Microbiota Alteration in <i>Klebsiella pneumoniae</i> -Caused Liver Abscesses Mice. <i>Polish Journal of Microbiology</i> , 2019, 68, 247-254.	1.7	3
40	Mechanism of high amplitude low frequency fluctuations in a pump-turbine in pump mode. <i>Renewable Energy</i> , 2018, 126, 668-680.	8.9	57
41	Influence of the clearance flow on the load rejection process in a pump-turbine. <i>Renewable Energy</i> , 2018, 127, 310-321.	8.9	40
42	Degradation of tetrabromobisphenol A by ferrate(VI) oxidation: Performance, inorganic and organic products, pathway and toxicity control. <i>Chemosphere</i> , 2018, 198, 92-102.	8.2	66
43	Numerical simulation of hysteresis characteristic in the hump region of a pump-turbine model. <i>Renewable Energy</i> , 2018, 115, 433-447.	8.9	80
44	Transient characteristics during the closure of guide vanes in a pump-turbine in pump mode. <i>Renewable Energy</i> , 2018, 118, 973-983.	8.9	82
45	Energy Analysis in a Pump-Turbine During the Load Rejection Process. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	1.5	30
46	Analysis of transient flow in a pump-turbine during the load rejection process. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 2069-2078.	1.5	26
47	Analysis of Pressure Fluctuations in a Prototype Pump-Turbine with Different Numbers of Runner Blades in Turbine Mode. <i>Energies</i> , 2018, 11, 1474.	3.1	21
48	Dynamic instability of a pump-turbine in load rejection transient process. <i>Science China Technological Sciences</i> , 2018, 61, 1765-1775.	4.0	21
49	Effects of propofol on myocardial ischemia-reperfusion injury in rats with type-2 diabetes mellitus. <i>Biomedical Reports</i> , 2017, 6, 69-74.	2.0	13
50	Entropy production analysis of hysteresis characteristic of a pump-turbine model. <i>Energy Conversion and Management</i> , 2017, 149, 175-191.	9.2	217
51	Flow characteristics prediction in pump mode of a pump turbine using large eddy simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 961-977.	2.5	28
52	Hysteresis Characteristic in the Hump Region of a Pump-Turbine Model. <i>Energies</i> , 2016, 9, 620.	3.1	18
53	Entropy production analysis for hump characteristics of a pump turbine model. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 803-812.	3.7	68
54	Analysis of vorticity dynamics for hump characteristics of a pump turbine model. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3641-3650.	1.5	22

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55	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
56	Pressure fluctuation prediction in pump mode using large eddy simulation and unsteady Reynolds-averaged Navier-Stokes in a pump-turbine. Advances in Mechanical Engineering, 2016, 8, 168781401665256.	1.6	5
57	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
58	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
59	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
60	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
61	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
62	Dynamic analysis on pressure fluctuation in vaneless region of a pump turbine. Science China Technological Sciences, 2015, 58, 813-824.	4.0	27
63	Unsteady simulation and analysis for hump characteristics of a pump turbine model. Renewable Energy, 2015, 77, 32-42.	8.9	84
64	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
65	Application of entropy production theory to hydro-turbine hydraulic analysis. Science China Technological Sciences, 2013, 56, 1636-1643.	4.0	102
66	Numerical simulation and rotor dynamic stability analysis on a large hydraulic turbine. Computers and Fluids, 2013, 88, 11-18.	2.5	6