

Deyou Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

887

citations

17

h-index

28

g-index

76

ext. papers

1,198

ext. citations

3.9

avg, IF

4.66

L-index

#	Paper	IF	Citations
66	Response and flow characteristics of a dual-rotor turbine flowmeter. <i>Flow Measurement and Instrumentation</i> , 2022 , 83, 102120	2.2	2
65	Cavitation effects on pressure fluctuation in pump-turbine hump region. <i>Journal of Energy Storage</i> , 2022 , 47, 103936	7.8	1
64	Influence of geometric factors at runner outlet on the hump characteristics of a pump-turbine. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101890	4.7	0
63	Optimization of blade high-pressure edge to reduce pressure fluctuations in pump-turbine hump region. <i>Renewable Energy</i> , 2022 , 181, 24-38	8.1	5
62	Multi-objective optimization design on high pressure side of a pump-turbine runner with high efficiency. <i>Renewable Energy</i> , 2022 , 190, 103-120	8.1	3
61	Investigations on Pressure Fluctuations in the S-Shaped Region of a Pump-Turbine. <i>Energies</i> , 2021 , 14, 6683	3.1	1
60	Spatio-temporal evolution mechanism of cavitation vortex ropes in a swirling flow. <i>Physics of Fluids</i> , 2021 , 33, 104107	4.4	3
59	Influence of axial clearance on the performance characteristics of a turbopump. <i>Journal of Mechanical Science and Technology</i> , 2021 , 35, 4543-4555	1.6	0
58	Evolution mechanism of a prototype pump turbine after pump power-off. <i>Physics of Fluids</i> , 2021 , 33, 106109	4.4	6
57	Effect mechanism of cavitation on the hump characteristic of a pump-turbine. <i>Renewable Energy</i> , 2021 , 167, 369-383	8.1	21
56	Numerical study of the hydrofoil cavitation flow with thermodynamic effects. <i>Renewable Energy</i> , 2021 , 169, 894-904	8.1	7
55	Thermodynamic Effects on Pressure Fluctuations of a Liquid Oxygen Turbopump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021 ,	2.1	6
54	Thermodynamic effects on the cavitation flow of a liquid oxygen turbopump. <i>Cryogenics</i> , 2021 , 116, 103302	3.02	4
53	Aerodynamic characteristics and mechanisms for bionic airfoils with different spacings. <i>Physics of Fluids</i> , 2021 , 33, 064101	4.4	6
52	Mechanism of low frequency high amplitude pressure fluctuation in a pump-turbine during the load rejection process. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 280-297	1.9	14
51	Runner cone optimization to reduce vortex rope-induced pressure fluctuations in a Francis turbine. <i>Science China Technological Sciences</i> , 2021 , 64, 1953-1970	3.5	4
50	Bionic leading-edge protuberances and hydrofoil cavitation. <i>Physics of Fluids</i> , 2021 , 33, 093317	4.4	4

49	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	10.3	1
48	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	3.3	0
47	. <i>IEEE Access</i> , 2020 , 8, 49451-49466	3.5	4
46	A boundary vorticity diagnosis of the flows in a model pump-turbine in turbine mode. <i>Renewable Energy</i> , 2020 , 153, 1465-1478	8.1	3
45	Experimental Vortex Flow Patterns in the Primary and Secondary Pump Intakes of a Model Underground Pumping Station. <i>Energies</i> , 2020 , 13, 1790	3.1	2
44	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,	2.1	8
43	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	8.1	6
42	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	8.1	8
41	Review of positive slopes on pump performance characteristics of pump-turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 112, 901-916	16.2	22
40	Numerical Simulation on Pump Transient Characteristic in a Model Pump Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019 , 141,	2.1	17
39	Investigation methods for analysis of transient phenomena concerning design and operation of hydraulic-machine systemsA review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 101, 26-46	16.2	39
38	Mechanism of high amplitude low frequency fluctuations in a pump-turbine in pump mode. <i>Renewable Energy</i> , 2018 , 126, 668-680	8.1	41
37	Influence of the clearance flow on the load rejection process in a pump-turbine. <i>Renewable Energy</i> , 2018 , 127, 310-321	8.1	25
36	Investigation of friction power consumption and performance of a water turbine seal based on the imbalanced rotation of nano-magnetic fluids. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401877236	1.7	236
35	Numerical simulation of hysteresis characteristic in the hump region of a pump-turbine model. <i>Renewable Energy</i> , 2018 , 115, 433-447	8.1	61
34	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	15
33	Dynamic instability of a pump-turbine in load rejection transient process. <i>Science China Technological Sciences</i> , 2018 , 61, 1765-1775	3.5	17
32	Transient characteristics during the closure of guide vanes in a pump-turbine in pump mode. <i>Renewable Energy</i> , 2018 , 118, 973-983	8.1	62

31	Energy Analysis in a Pump-Turbine During the Load Rejection Process. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	21
30	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	1.6	22
29	Entropy production analysis of hysteresis characteristic of a pump-turbine model. <i>Energy Conversion and Management</i> , 2017 , 149, 175-191	10.6	125
28	Dynamic Simulation in Guide Vane Opening Process of a Pump-Turbine in Pump Mode. <i>Journal of Applied Fluid Mechanics</i> , 2017 , 10, 1441-1449	1.5	2
27	Influence of Guide Vane Setting in Pump Mode on Performance Characteristics of a Pump-Turbine. <i>International Journal of Fluid Machinery and Systems</i> , 2017 , 10, 154-163	1.1	3
26	Analysis of vorticity dynamics for hump characteristics of a pump turbine model. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 3641-3650	1.6	13
25	Influence of guide vane setting in pump mode on performance characteristics of a pump-turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 042002	0.3	1
24	Investigation into the flow details of runner region in a pump turbine at off-design conditions. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401663072	1.2	6
23	Pressure fluctuation prediction in pump mode using large eddy simulation and unsteady Reynolds-averaged Navier-Stokes in a pump turbine. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401665256	1.2	6
22	Analytical solution of Reynolds equation under dynamic conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2016 , 230, 416-427	1.4	12
21	Numerical Investigation in the Vaned Distributor under Different Guide Vanes Openings of a Pump Turbine in Pump Mode. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 253-266	1.5	9
20	Analysis of Rotor-Stator Interaction in Turbine Mode of a Pump-Turbine Model. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 2559-2568	1.5	10
19	Hysteresis Characteristic in the Hump Region of a Pump-Turbine Model. <i>Energies</i> , 2016 , 9, 620	3.1	15
18	Entropy production analysis for hump characteristics of a pump turbine model. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016 , 29, 803-812	2.5	36
17	Dynamic analysis on pressure fluctuation in vaneless region of a pump turbine. <i>Science China Technological Sciences</i> , 2015 , 58, 813-824	3.5	24
16	Unsteady simulation and analysis for hump characteristics of a pump turbine model. <i>Renewable Energy</i> , 2015 , 77, 32-42	8.1	64
15	Numerical investigation on transient flow of a high head low specific speed pump-turbine in pump mode. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 063111	2.5	23
14	Numerical investigation for one bad-behaved flow in a Pelton turbine. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 72, 042033	0.4	3

13	Investigation on cavitation for hump characteristics of a pump turbine in pump mode. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 72, 042034	0.4	3
12	Investigation on synchronous control of electro-hydraulic servo system based on MRAC 2015 ,		1
11	Fluid flow analysis of drooping phenomena in pump mode for a given guide vane setting of a pump-turbine model. <i>Journal of Zhejiang University: Science A</i> , 2015 , 16, 851-863	2.1	11
10	Influence of clearance parameters on the rotor dynamic character of hydraulic turbine shaft system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 262-270	1.3	3
9	Application of entropy production theory to hydro-turbine hydraulic analysis. <i>Science China Technological Sciences</i> , 2013 , 56, 1636-1643	3.5	49
8	Design of Pressure Fluctuation Measurement System for Hydro-Turbine Model Test. <i>Applied Mechanics and Materials</i> , 2013 , 333-335, 353-358	0.3	
7	Research of fluid-induced pressure fluctuation due to impeller-volute interaction in a centrifugal pump. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013 , 52, 022026	0.4	1
6	Optimization of testing system and experiment research for pump turbine model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013 , 52, 052023	0.4	1
5	MRAC for Direct Drive Electronic-Hydraulic Servo System. <i>Advanced Materials Research</i> , 2012 , 433-440, 4142-4148	0.5	
4	An Application of Mixed Sensitivity Control Method in Direct-Drive Electro-Hydraulic Servo System. <i>Procedia Engineering</i> , 2011 , 16, 518-525		2
3	Investigation on runner resonance and fatigue life of a high head pump turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110653	1.3	
2	Investigation on pressure fluctuations of dual- and analogical single-rotor turbine flowmeters. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210746	1.3	1
1	Mechanism and influence factors of hydraulic fluctuations in a pump-turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 095765092110285	1.6	1