

Lei Tan

List of Publications by Year in descending order

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101496
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docs citations

77
times ranked

967
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Prediction and Geometry Optimization for Application of Pump as Turbine: A Review. <i>Frontiers in Energy Research</i> , 2022, 9, .	1.2	20
2	Coherent structures decomposition of the flow field in Francis turbine runner under different working conditions. <i>Renewable Energy</i> , 2022, 186, 717-729.	4.3	7
3	Cavitation-vibration correlation of a mixed flow pump under steady state and fast start-up conditions by experiment. <i>Ocean Engineering</i> , 2022, 251, 111158.	1.9	49
4	Correlation of drag coefficient between rising bubbles in chain. <i>Physics of Fluids</i> , 2022, 34, 043314.	1.6	4
5	Design method of controllable velocity moment and optimization of pressure fluctuation suppression for a multiphase pump. <i>Ocean Engineering</i> , 2021, 220, 108402.	1.9	36
6	Detecting SARS-CoV-2 in the Breath of COVID-19 Patients. <i>Frontiers in Medicine</i> , 2021, 8, 604392.	1.2	22
7	Special Issue on "CFD Based Researches and Applications for Fluid Machinery and Fluid Device" Processes, 2021, 9, 1137.	1.3	1
8	Optimization design method of multi-stage multiphase pump based on Oseen vortex. <i>Journal of Petroleum Science and Engineering</i> , 2020, 184, 106532.	2.1	60
9	Influence of C groove on suppressing vortex and cavitation for a NACA0009 hydrofoil with tip clearance in tidal energy. <i>Renewable Energy</i> , 2020, 148, 907-922.	4.3	36
10	Method of T shape tip on energy improvement of a hydrofoil with tip clearance in tidal energy. <i>Renewable Energy</i> , 2020, 149, 42-54.	4.3	27
11	Influence of rotating speed on tip leakage vortex in a mixed flow pump as turbine at pump mode. <i>Renewable Energy</i> , 2020, 162, 144-150.	4.3	47
12	Influence of viscosity on energy performance and flow field of a multiphase pump. <i>Renewable Energy</i> , 2020, 162, 1151-1160.	4.3	27
13	Method of dynamic mode decomposition and reconstruction with application to a three-stage multiphase pump. <i>Energy</i> , 2020, 208, 118343.	4.5	44
14	Energy Performance and Radial Force of Vertical Axis Darrieus Turbine for Ocean Energy. <i>Energies</i> , 2020, 13, 5412.	1.6	2
15	Blade rotation angle on energy performance and tip leakage vortex in a mixed flow pump as turbine at pump mode. <i>Energy</i> , 2020, 206, 118084.	4.5	36
16	Thermal and efficiency improvements of all vanadium redox flow battery with novel main-side-tank system and slow pump shutdown. <i>Journal of Energy Storage</i> , 2020, 28, 101274.	3.9	9
17	Dynamic mode decomposition and reconstruction of tip leakage vortex in a mixed flow pump as turbine at pump mode. <i>Renewable Energy</i> , 2020, 155, 725-734.	4.3	134
18	Theoretical Prediction Model of Tip Leakage Vortex in a Mixed Flow Pump With Tip Clearance. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	62

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19	Cavitation-Vortex-Pressure Fluctuation Interaction in a Centrifugal Pump Using Bubble Rotation Modified Cavitation Model Under Partial Load. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	45
20	Cavitationâ€“Vortexâ€“Turbulence Interaction and One-Dimensional Model Prediction of Pressure for Hydrofoil ALE15 by Large Eddy Simulation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	85
21	Theoretical model of energy performance prediction and BEP determination for centrifugal pump as turbine. <i>Energy</i> , 2019, 172, 712-732.	4.5	151
22	Influence of prewhirl angle on a centrifugal pump with inlet guide vane running at turbine mode. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 032013.	0.2	0
23	Investigation of tip leakage vortex characteristics around tip clearance in a mixed flow pump. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 032014.	0.2	3
24	Dynamic mode decomposition of gas-liquid flow in a rotodynamic multiphase pump. <i>Renewable Energy</i> , 2019, 139, 1159-1175.	4.3	55
25	A study on the evolution of the instability in two model pump-turbine runners with large blade leans. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 072032.	0.2	1
26	A review of prewhirl regulation by inlet guide vanes for compressor and pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019, 233, 803-817.	0.8	13
27	Spatialâ€“Temporal Evolution of Tip Leakage Vortex in a Mixed-Flow Pump With Tip Clearance. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	107
28	Dynamic mode decomposition of cavitating flow around ALE 15 hydrofoil. <i>Renewable Energy</i> , 2019, 139, 214-227.	4.3	66
29	Influence of T-Shape Tip Clearance on Energy Performance and Broadband Noise for a NACA0009 Hydrofoil. <i>Energies</i> , 2019, 12, 4066.	1.6	6
30	Control strategy optimization of electrolyte flow rate for all vanadium redox flow battery with consideration of pump. <i>Renewable Energy</i> , 2019, 133, 1445-1454.	4.3	37
31	Symmetrical and unsymmetrical tip clearances on cavitation performance and radial force of a mixed flow pump as turbine at pump mode. <i>Renewable Energy</i> , 2018, 127, 368-376.	4.3	178
32	Investigation on Flow Characteristics of Pump-Turbine Runners With Large Blade Lean. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	32
33	Influence of Geometry of Inlet Guide Vanes on Pressure Fluctuations of a Centrifugal Pump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	65
34	Pressure fluctuation and flow pattern of a mixed-flow pump under design and off-design conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 2430-2440.	1.1	14
35	Influence of T-shape tip clearance on performance of a mixed-flow pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 386-396.	0.8	64
36	Energy Performance and Pressure Fluctuation of a Multiphase Pump with Different Gas Volume Fractions. <i>Energies</i> , 2018, 11, 1216.	1.6	41

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37	A Review of Tip Clearance in Propeller, Pump and Turbine. <i>Energies</i> , 2018, 11, 2202.	1.6	60
38	Method of C groove on vortex suppression and energy performance improvement for a NACA0009 hydrofoil with tip clearance in tidal energy. <i>Energy</i> , 2018, 155, 448-461.	4.5	70
39	Large eddy simulation of cavitation vortex interaction and pressure fluctuation around hydrofoil ALE 15. <i>Ocean Engineering</i> , 2018, 163, 264-274.	1.9	42
40	Methods of Decline Curve Analysis for Shale Gas Reservoirs. <i>Energies</i> , 2018, 11, 552.	1.6	45
41	Design Method of Controllable Blade Angle and Orthogonal Optimization of Pressure Rise for a Multiphase Pump. <i>Energies</i> , 2018, 11, 1048.	1.6	57
42	Advances in Fluid Dynamics of Turbomachinery. <i>International Journal of Rotating Machinery</i> , 2018, 2018, 1-2.	0.8	0
43	Tip clearance on pressure fluctuation intensity and vortex characteristic of a mixed flow pump as turbine at pump mode. <i>Renewable Energy</i> , 2018, 129, 606-615.	4.3	225
44	Controllable velocity moment and prediction model for inlet guide vanes of a centrifugal pump. <i>Engineering Computations</i> , 2018, 35, 1364-1382.	0.7	6
45	Multiparameter and multiobjective optimization design of centrifugal pump based on orthogonal method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2569-2579.	1.1	55
46	Role of blade rotational angle on energy performance and pressure fluctuation of a mixed-flow pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2017, 231, 227-238.	0.8	91
47	Pressure fluctuation and flow pattern of a mixed-flow pump with different blade tip clearances under cavitation condition. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769622.	0.8	40
48	Unstable Flow Characteristics in S-Shaped Region of Pump-Turbine Runners With Large Blade Lean. , 2017, , .		0
49	Energy Performance and Radial Force of a Mixed-Flow Pump with Symmetrical and Unsymmetrical Tip Clearances. <i>Energies</i> , 2017, 10, 57.	1.6	51
50	Energy Performance and Flow Patterns of a Mixed-Flow Pump with Different Tip Clearance Sizes. <i>Energies</i> , 2017, 10, 191.	1.6	103
51	Influence of Prewhirl Angle and Axial Distance on Energy Performance and Pressure Fluctuation for a Centrifugal Pump with Inlet Guide Vanes. <i>Energies</i> , 2017, 10, 695.	1.6	40
52	Numerical investigation of clocking effect on a centrifugal pump with inlet guide vanes. <i>Engineering Computations</i> , 2016, 33, .	0.7	30
53	Numerical Investigation on Frequency Jump of Flow Over a Cavity Using Large Eddy Simulation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	0.8	3
54	Cavitation performance and flow characteristic in a centrifugal pump with inlet guide vanes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 72, 032028.	0.3	2

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55	Numerical study on characteristics of unsteady flow in a centrifugal pump volute at partial load condition. <i>Engineering Computations</i> , 2015, 32, 1549-1566.	0.7	95
56	Numerical investigation of influence of inlet guide vanes on unsteady flow in a centrifugal pump. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 3405-3416.	1.1	33
57	Influence of blade angle distribution along leading edge on cavitation performance of a centrifugal pump. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 72, 032019.	0.3	2
58	Numerical simulation and analysis of cavitation flows in a double suction centrifugal pump. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 72, 032020.	0.3	0
59	Experiment and numerical simulation of cavitation performance on a pressure-regulating valve with different openings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 72, 042035.	0.3	8
60	Optimization design of a reversible pump-turbine runner with high efficiency and stability. <i>Renewable Energy</i> , 2015, 81, 366-376.	4.3	82
61	Numerical prediction of performance drop due to cavitation in a centrifugal pump. , 2014, , .		2
62	Influence of Prewhirl Regulation by Inlet Guide Vanes on Cavitation Performance of a Centrifugal Pump. <i>Energies</i> , 2014, 7, 1050-1065.	1.6	57
63	Numerical simulation of unsteady cavitation flow in a centrifugal pump at off-design conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1994-2006.	1.1	94
64	Influence of blade wrap angle on centrifugal pump performance by numerical and experimental study. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 171-177.	1.9	67
65	Turbulent flow simulation using large eddy simulation combined with characteristic-based split scheme. <i>Computers and Fluids</i> , 2014, 94, 161-172.	1.3	15
66	Cavitation flow simulation for a centrifugal pump at a low flow rate. <i>Science Bulletin</i> , 2013, 58, 949-952.	1.7	36
67	Effects of meridional flow passage shape on hydraulic performance of mixed-flow pump impellers. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2013, 26, 469-475.	1.9	25
68	Full 3-D viscous optimization design of a reversible pump turbine runner. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 52, 022014.	0.3	6
69	Numerical Simulation of Cavitation in a Centrifugal Pump at Low Flow Rate. <i>Chinese Physics Letters</i> , 2012, 29, 014702.	1.3	23
70	Direct and inverse iterative design method for centrifugal pump impellers. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2012, 226, 764-775.	0.8	50
71	Object-based classification using LiDAR-derived metrics and QuickBird imagery. , 2012, , .		3
72	Object-oriented land cover classification using multi-temporal HJ-1 CCD imagery: A case study in central Shandong province, China. , 2012, , .		0

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73	A novel classification method based on texture analysis using high-resolution SAR and optical data. , 2012, , .		1
74	Influence of axial distance on pre-whirl regulation by the inlet guide vanes for a centrifugal pump. Science China Technological Sciences, 2012, 55, 1037-1043.	2.0	22
75	Prediction method of impeller performance and analysis of loss mechanism for mixed-flow pump. Science China Technological Sciences, 2012, 55, 1988-1998.	2.0	34
76	Hydraulic design and pre-whirl regulation law of inlet guide vane for centrifugal pump. Science China Technological Sciences, 2010, 53, 2142-2151.	2.0	43
77	Experiment and Numerical Simulation of Cavitation Performance for Centrifugal Pump with Inlet Guide Vane. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2010, 46, 177.	0.7	6