

Giorgio Pavesi

List of Publications by Year in descending order

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56
papers

1,528
citations

346980

22
h-index

355658

38
g-index

57
all docs

57
docs citations

57
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	Parametric investigation and energy efficiency optimization of the curved inlet pipe with induced vane of an inline pump. <i>Energy</i> , 2022, 240, 122824.	4.5	11
2	Dynamic responses of pitching hydrofoil in laminar-turbulent transition regime. <i>Journal of Fluids and Structures</i> , 2022, 111, 103544.	1.5	4
3	Numerical investigation of the effect of the closure law of wicket gates on the transient characteristics of pump-turbine in pump mode. <i>Renewable Energy</i> , 2022, 194, 719-733.	4.3	34
4	Numerical investigation of unsteady cavitation around a twisted hydrofoil. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103506.	1.6	17
5	Lagrangian Analysis of Unsteady Partial Cavitating Flow Around a Three-Dimensional Hydrofoil. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	0.8	8
6	Techno-economic benefits deriving from optimal scheduling of a Virtual Power Plant: Pumped hydro combined with wind farms. <i>Journal of Energy Storage</i> , 2021, 37, 102461.	3.9	19
7	Numerical analysis of unsteady cloud cavitating flow around a 3D Clark-Y hydrofoil considering end-wall effects. <i>Ocean Engineering</i> , 2021, 219, 108369.	1.9	9
8	Optimal assets management of a water distribution network for leakage minimization based on an innovative index. <i>Sustainable Cities and Society</i> , 2020, 54, 101890.	5.1	22
9	Transient simulation on closure of wicket gates in a high-head Francis-type reversible turbine operating in pump mode. <i>Renewable Energy</i> , 2020, 145, 1817-1830.	4.3	26
10	Contribution of Metal-Organic-Heat Carrier nanoparticles in a R245fa low-grade heat recovery Organic Rankine Cycle. <i>Energy Conversion and Management</i> , 2019, 199, 111960.	4.4	13
11	Experimental investigation of the nonlinear pressure fluctuations in a residual heat removal pump. <i>Annals of Nuclear Energy</i> , 2019, 131, 63-79.	0.9	16
12	Flow induced noise characterization of pump turbine in continuous and intermittent load rejection processes. <i>Renewable Energy</i> , 2019, 139, 1029-1039.	4.3	29
13	Risk of penstock fatigue in pumped-storage power plants operating with variable speed in pumping mode. <i>Renewable Energy</i> , 2019, 133, 636-646.	4.3	24
14	A new method of dynamic mesh used in continuous guide vane closure of a reversible pump-turbine in generating mode. <i>Journal of Hydrodynamics</i> , 2019, 31, 976-985.	1.3	7
15	Francis-Type Reversible Turbine Field Investigation During Fast Closure of Wicket Gates. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	12
16	Unsteady flow characteristics regarding hump instability in the first stage of a multistage pump-turbine in pump mode. <i>Renewable Energy</i> , 2018, 127, 377-385.	4.3	62
17	A novel two-swarm based PSO search strategy for optimal short-term hydro-thermal generation scheduling. <i>Energy Conversion and Management</i> , 2018, 164, 460-481.	4.4	24
18	Numerical Simulation of a Pump-Turbine Transient Load Following Process in Pump Mode. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	14

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19	Unstable behaviour of pump-turbines and its effects on power regulation capacity of pumped-hydro energy storage plants. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 399-409.	8.2	72
20	A multi-fluid PSO-based algorithm for the search of the best performance of sub-critical Organic Rankine Cycles. <i>Energy</i> , 2017, 129, 42-58.	4.5	21
21	Investigation of wake characteristics of a yawed HAWT and its impacts on the inline downstream wind turbine using unsteady CFD. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 168, 60-71.	1.7	63
22	Simulation model of a variable-speed pumped-storage power plant in unstable operating conditions in pumping mode. <i>Journal of Physics: Conference Series</i> , 2017, 813, 012028.	0.3	2
23	Numerical investigation on transient flow of a high head pump-turbine in pump mode during rapid closure of guide vanes. , 2017, , .		0
24	Numerical Analysis of the Transient Behaviour of a Variable Speed Pump-Turbine during a Pumping Power Reduction Scenario. <i>Energies</i> , 2016, 9, 534.	1.6	36
25	Experimental Investigation on Influence of Relative Positions Between Diffuser and Volute on Pressure Fluctuation at the Outlet of a Centrifugal Pump. , 2016, , .		2
26	Accurate estimation model for small and micro hydropower plants costs in hybrid energy systems modelling. <i>Energy</i> , 2016, 103, 746-757.	4.5	34
27	Analysis of the Unstable Behavior of a Pump-Turbine in Turbine Mode: Fluid-Dynamical and Spectral Characterization of the S-shape Characteristic. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	72
28	Study of Hump Instability Phenomena in Pump Turbine at Large Partial Flow Conditions on Pump Mode. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2016, 52, 170.	0.7	4
29	Experimental Characterization of a Pump-Turbine in Pump Mode at Hump Instability Region. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	0.8	63
30	Adaptive acceleration coefficients for a new search diversification strategy in particle swarm optimization algorithms. <i>Information Sciences</i> , 2015, 299, 337-378.	4.0	62
31	Using splitter blades to improve suction performance of centrifugal impeller pumps. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015, 229, 309-323.	0.8	26
32	Comparisons RANS and URANS numerical results with experiments in a vaned diffuser of a centrifugal pump. <i>Houille Blanche</i> , 2015, 101, 108-116.	0.3	4
33	Numerical Analyses of Cavitating Flow in a Pelton Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	0.8	32
34	A new generation of small hydro and pumped-hydro power plants: Advances and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 746-761.	8.2	193
35	Influence of the bucket geometry on the Pelton performance. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2014, 228, 33-45.	0.8	11
36	Comparison of different numerical approaches to the study of the H-Darrieus turbines start-up. <i>Renewable Energy</i> , 2013, 50, 7-19.	4.3	89

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37	Numerical characterization of pressure instabilities in a vaned centrifugal pump under partload condition. IOP Conference Series: Materials Science and Engineering, 2013, 52, 022044.	0.3	4
38	Optimal drive and machine sizing for a self starting, vertical axis, low power wind generator. , 2012, , .		1
39	High-speed stereoscopic PIV study of rotating instabilities in a radial vaneless diffuser. Experiments in Fluids, 2011, 51, 83-93.	1.1	57
40	Techno-economical method for the capacity sizing of a small hydropower plant. Energy Conversion and Management, 2011, 52, 2533-2541.	4.4	61
41	Pressure instabilities in a vaned centrifugal pump. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 930-939.	0.8	23
42	Analysis of Unsteady Flow Velocity Fields Inside the Impeller of a Radial Flow Pump: PIV Measurements and Numerical Calculation Comparisons. , 2011, , .		2
43	A new two stage miniature pump: Design, experimental characterization and numerical analyses. Sensors and Actuators A: Physical, 2010, 164, 74-87.	2.0	6
44	Modeling Strategy and Numerical Validation for a Darrieus Vertical Axis Micro-Wind Turbine. , 2010, , .		34
45	Validation of an analysis method for particle image velocimetry of turbulent unsteady flows in turbomachinery. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 679-689.	0.8	5
46	An optimum design procedure for an aerodynamic radial diffuser with incompressible flow at different Reynolds numbers. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 69-84.	0.8	12
47	Experimental and numerical analyses of micro rotary shaft pumps. Journal of Micromechanics and Microengineering, 2009, 19, 125013.	1.5	0
48	A procedure for the design of radial cascade diffusers based on the maximum ratio between flow deflection and total pressure loss coefficient. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 849-861.	0.8	1
49	Analysis of the Rotor-Stator Interaction in a Radial Flow Pump. Houille Blanche, 2009, 95, 141-151.	0.3	15
50	Time-frequency characterization of the unsteady phenomena in a centrifugal pump. International Journal of Heat and Fluid Flow, 2008, 29, 1527-1540.	1.1	75
51	Time-Frequency Characterization of Rotating Instabilities in a Centrifugal Pump with a Vaned Diffuser. International Journal of Rotating Machinery, 2008, 2008, 1-10.	0.8	25
52	Unsteady Flow Field and Noise Generation in a Centrifugal Pump Impeller With a Vaneless Diffuser. , 2005, , 1331.		2
53	Rotating Instability in a Centrifugal Pump Impeller. , 2005, , 67.		1
54	Numerical and Experimental Investigations on a Centrifugal Pump With and Without a Vaned Diffuser. , 2004, , 485.		2

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55	Direct and reverse flow conditions in radial flow hydraulic turbomachines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2000, 214, 635-644.	0.8	21
56	Influence of the Blade Stacking on the Flow Through an Axial Flow Runner and Predictions of Three-Dimensional and Quasi Three-Dimensional Numerical Codes. Proceedings of the Institution of Mechanical Engineers Part C Mechanical Engineering Science, 1990, 204, 389-397.	0.3	3