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Dynamic loads in Francis runners and their impact on fatigue life

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#	Paper	IF	Citations
51	Analysis on regulation strategies for extending service life of hydropower turbines. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 052013	0.3	4
50	Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review. <i>Applied Mechanics Reviews</i> , 2016 , 68,	8.6	52
49	A review on fatigue damage mechanism in hydro turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 1-14	16.2	99
48	Investigations of unsteady pressure loading in a Francis turbine during variable-speed operation. <i>Renewable Energy</i> , 2017 , 113, 397-410	8.1	28
47	Evolutions of Pressure Fluctuations and Runner Loads During Runaway Processes of a Pump-Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	39
46	Fluid-structure interactions in Francis turbines: A perspective review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 87-101	16.2	64
45	Wear Reduction for Hydropower Turbines Considering Frequency Quality of Power Systems: A Study on Controller Filters. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1191-1201	7	23
44	Experimental study of a Francis turbine under variable-speed and discharge conditions. <i>Renewable Energy</i> , 2018 , 119, 447-458	8.1	27
43	Experimental and Numerical Investigations on the Origins of Rotating Stall in a Propeller Turbine Runner Operating in No-Load Conditions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	12
42	Allocation of Frequency Control Reserves and Its Impact on Wear and Tear on a Hydropower Fleet. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 430-439	7	10
41	Investigations of Compressible Turbulent Flow in a High-Head Francis Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	18
40	CFD Investigation of a High Head Francis Turbine at Speed No-Load Using Advanced URANS Models. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2505	2.6	7
39	Cavitation Effects on the Structural Resonance of Hydraulic Turbines: Failure Analysis in a Real Francis Turbine Runner. <i>Energies</i> , 2018 , 11, 2320	3.1	7
38	A Hydrodynamic Study of a Propeller Turbine During a Transient Runaway Event Initiated at the Best Efficiency Point. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	3
37	Crack growth analysis and fatigue life estimation in the piston rod of a Kaplan hydro turbine. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018 , 41, 2402-2417	3	8
36	Compressible Large Eddy Simulation of a Francis Turbine During Speed-No-Load: Rotor Stator Interaction and Inception of a Vortical Flow. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	18
35	Burden on hydropower units for short-term balancing of renewable power systems. <i>Nature Communications</i> , 2018 , 9, 2633	17.4	43

34	Numerical study of the flow dynamics at no-load operation for a high head Francis turbine at model scale. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 022023	0.3	1
33	Investigation on the Impact of Air Admission in a Prototype Francis Turbine at Low-Load Operation. <i>Energies</i> , 2019 , 12, 2893	3.1	8
32	Hydraulic turbines lifetime in terms of fracture mechanics. <i>Engineering Failure Analysis</i> , 2019 , 105, 1296-1305	3.1	7
31	Numerical and experimental investigation of the effect of baffles on flow instabilities in a Francis turbine draft tube under partial load conditions. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401382446	1.3	9
30	Fatigue life estimation of Francis turbines based on experimental strain measurements: Review of the actual data and future trends. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 102, 96-110	16.2	30
29	Variable-speed operation of Francis turbines: A review of the perspectives and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 103, 109-121	16.2	33
28	Operating conditions leading to crack propagation in turbine blades of tidal barrages. Influence of head and operating mode. <i>Engineering Failure Analysis</i> , 2020 , 108, 104254	3.2	0
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26	Investigation of Pressure Fluctuation and Pulsating Hydraulic Axial Thrust in Francis Turbines. <i>Energies</i> , 2020 , 13, 1734	3.1	6
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16	Strain prediction in Francis runners by means of stationary sensors. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012084	0.3	
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12	A Turbulence Model Assessment for Deep Part Load Conditions of a Francis Turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012072	0.3	1
11	Analytical system for predicting cracks in hydraulic turbines. <i>Engineering Failure Analysis</i> , 2021 , 127, 105489	0.3	0
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6	Research on the Flow-Induced Stress Characteristics of Head-Cover Bolts of a Pump-Turbine during Turbine Start-Up. <i>Energies</i> , 2022 , 15, 1832	3.1	0
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