

Monica Egusquiza Montagut

List of Publications by Year in descending order

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docs citations

44
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#	ARTICLE	IF	CITATIONS
1	Power Swing Generated in Francis Turbines by Part Load and Overload Instabilities. <i>Energies</i> , 2017, 10, 2124.	1.6	62
2	Accurate Determination of the Frequency Response Function of Submerged and Confined Structures by Using PZT-Patches. <i>Sensors</i> , 2017, 17, 660.	2.1	40
3	A review of dynamic models and stability analysis for a hydro-turbine governing system. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110880.	8.2	38
4	Advanced condition monitoring of Pelton turbines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 119, 46-55.	2.5	34
5	Multi-objective optimization of a hydro-wind-photovoltaic power complementary plant with a vibration avoidance strategy. <i>Applied Energy</i> , 2021, 301, 117459.	5.1	34
6	A Review of PZT Patches Applications in Submerged Systems. <i>Sensors</i> , 2018, 18, 2251.	2.1	31
7	Failure investigation of a Kaplan turbine blade. <i>Engineering Failure Analysis</i> , 2019, 97, 690-700.	1.8	29
8	Extension of Operating Range in Pump-Turbines. Influence of Head and Load. <i>Energies</i> , 2017, 10, 2178.	1.6	28
9	Numerical study on the influence of acoustic natural frequencies on the dynamic behaviour of submerged and confined disk-like structures. <i>Journal of Fluids and Structures</i> , 2017, 73, 53-69.	1.5	27
10	Failure investigation of a Pelton turbine runner. <i>Engineering Failure Analysis</i> , 2017, 81, 234-244.	1.8	26
11	Feasibility of Detecting Natural Frequencies of Hydraulic Turbines While in Operation, Using Strain Gauges. <i>Sensors</i> , 2018, 18, 174.	2.1	24
12	On the use of artificial neural networks for condition monitoring of pump-turbines with extended operation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 163, 107952.	2.5	24
13	Transmission of High Frequency Vibrations in Rotating Systems. Application to Cavitation Detection in Hydraulic Turbines. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 451.	1.3	21
14	Detection of Hydraulic Phenomena in Francis Turbines with Different Sensors. <i>Sensors</i> , 2019, 19, 4053.	2.1	18
15	Experimental and numerical investigation on the influence of a large crack on the modal behaviour of a Kaplan turbine blade. <i>Engineering Failure Analysis</i> , 2020, 109, 104389.	1.8	18
16	Failure investigation of a solar tracker due to wind-induced torsional galloping. <i>Engineering Failure Analysis</i> , 2022, 135, 106137.	1.8	18
17	Experimental Study of a Vibrating Disk Submerged in a Fluid-Filled Tank and Confined With a Nonrigid Cover. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.0	15
18	Experimental Measurements of the Natural Frequencies and Mode Shapes of Rotating Disk-Blades-Disk Assemblies from the Stationary Frame. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3864.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Nonlinear modal interaction analysis and vibration characteristics of a francis hydro-turbine generator unit. <i>Renewable Energy</i> , 2021, 168, 854-864.	4.3	15
20	Transposition of the mechanical behavior from model to prototype of Francis turbines. <i>Renewable Energy</i> , 2020, 152, 1011-1023.	4.3	14
21	Transient analysis to air chamber and orifice surge tanks in a hydroelectric generating system during the successive load rejection. <i>Energy Conversion and Management</i> , 2021, 244, 114449.	4.4	14
22	Sensor-Based Optimized Control of the Full Load Instability in Large Hydraulic Turbines. <i>Sensors</i> , 2018, 18, 1038.	2.1	13
23	Numerical Study on the Dynamic Behavior of a Francis Turbine Runner Model with a Crack. <i>Energies</i> , 2018, 11, 1630.	1.6	12
24	Assessment of the Use of Venetian Blinds as Solar Thermal Collectors in Double Skin Facades in Mediterranean Climates. <i>Energies</i> , 2017, 10, 1825.	1.6	11
25	Increasing the operating range and energy production in Francis turbines by an early detection of the overload instability. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 181, 109580.	2.5	10
26	On the use of neural networks for dynamic stress prediction in Francis turbines by means of stationary sensors. <i>Renewable Energy</i> , 2021, 170, 652-660.	4.3	9
27	Exploring the Regulation Reliability of a Pumped Storage Power Plant in a Wind-Solar Hybrid Power Generation System. <i>Water (Switzerland)</i> , 2021, 13, 2548.	1.2	8
28	Dynamic response of Pelton runners: Numerical and experimental analysis in prototypes. <i>Renewable Energy</i> , 2020, 157, 116-129.	4.3	8
29	Influence of the hydrodynamic damping on the dynamic response of Francis turbine runners. <i>Journal of Fluids and Structures</i> , 2019, 90, 71-89.	1.5	7
30	Improved damage detection in Pelton turbines using optimized condition indicators and data-driven techniques. <i>Structural Health Monitoring</i> , 2021, 20, 3239-3251.	4.3	6
31	Behavior of Francis turbines at part load. Field assessment in prototype: Effects on power swing. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 240, 062012.	0.2	4
32	Detection of erosive cavitation on hydraulic turbines through demodulation analysis. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 062048.	0.2	4
33	On the Use of PZT-Patches as Exciters in Modal Analysis: Application to Submerged Structures. <i>Proceedings (mdpi)</i> , 2017, 1, 32.	0.2	3
34	Synchronous condenser operation in Francis turbines: Effects in the runner stress and machine vibration. <i>Renewable Energy</i> , 2020, 146, 890-900.	4.3	3
35	On the use of Vibrational Hill Charts for improved condition monitoring and diagnosis of hydraulic turbines. <i>Structural Health Monitoring</i> , 2022, 21, 2547-2568.	4.3	3
36	Optimized Use of Sensors to Detect Critical Full Load Instability in Large Hydraulic Turbines. <i>Proceedings (mdpi)</i> , 2017, 1, 822.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Feasibility to Detect Natural Frequencies of Hydraulic Turbines under Operation Using Strain Gauges. Proceedings (mdpi), 2017, 1, 821.	0.2	2
38	The potential for photovoltaic-powered pumped-hydro systems to reduce emissions, costs, and energy insecurity in rural China. Energy Conversion and Management: X, 2021, 11, 100108.	0.9	2
39	Strain prediction in Francis runners by means of stationary sensors. IOP Conference Series: Earth and Environmental Science, 2021, 774, 012084.	0.2	1
40	Characterization of the Effects of Ingested Bodies on the Rotor–Stator Interaction of Hydraulic Turbines. Energies, 2021, 14, 6669.	1.6	1
41	Analysis of the Mode Shapes of Kaplan Runners. Applied Sciences (Switzerland), 2022, 12, 6708.	1.3	1
42	Experimental investigation on the dynamic response of Pelton runners. IOP Conference Series: Earth and Environmental Science, 2019, 240, 022062.	0.2	0
43	Behavior of Francis turbines at part load. Field assessment in prototype: Effects on the hydraulic system. IOP Conference Series: Earth and Environmental Science, 2019, 240, 052029.	0.2	0
44	Selection and Optimization of Sensors for Monitoring of Francis Turbines. IOP Conference Series: Earth and Environmental Science, 2021, 774, 012028.	0.2	0