

Chirag Trivedi

List of Publications by Year in descending order

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36
papers

1,359
citations

377584

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388640

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37
all docs

37
docs citations

37
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of Pressure Pulsations in a Francis Turbine Designed for Frequent Start-Stop. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	4
2	Investigations of Rake and Rib Structures in Sand Traps to Prevent Sediment Transport in Hydropower Plants. Energies, 2021, 14, 3882.	1.6	7
3	Leakage Vortex Progression through a Guide Vane's Clearance Gap and the Resulting Pressure Fluctuation in a Francis Turbine. Energies, 2021, 14, 4244.	1.6	4
4	The state-of-art of design and research for Pelton turbine casing, weight estimation, counterpressure operation and scientific challenges. Heliyon, 2021, 7, e08527.	1.4	14
5	Time-dependent inception of vortex rings in a Francis turbine during load variation: large eddy simulation and experimental validation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 790-806.	0.7	7
6	Investigation of a Francis turbine during speed variation: Inception of cavitation. Renewable Energy, 2020, 166, 147-162.	4.3	23
7	Numerical Study of a Francis Turbine over Wide Operating Range: Some Practical Aspects of Verification. Sustainability, 2020, 12, 4301.	1.6	7
8	Signature analysis of characteristic frequencies in a Francis turbine. IOP Conference Series: Earth and Environmental Science, 2019, 240, 072008.	0.2	2
9	A Systematic Validation of a Francis Turbine Under Design and Off-Design Loads. Journal of Verification, Validation and Uncertainty Quantification, 2019, 4, .	0.3	4
10	Numerical prediction of hill charts of Francis turbines. Journal of Physics: Conference Series, 2019, 1266, 012011.	0.3	3
11	Francis-99 Workshop 3: Fluid structure interaction. Journal of Physics: Conference Series, 2019, 1296, 011001.	0.3	2
12	Pressure pulsations and fatigue loads in high head Francis turbines. IOP Conference Series: Earth and Environmental Science, 2019, 240, 022039.	0.2	0
13	Variable-speed operation of Francis turbines: A review of the perspectives and challenges. Renewable and Sustainable Energy Reviews, 2019, 103, 109-121.	8.2	60
14	A Comprehensive Review of Verification and Validation Techniques Applied to Hydraulic Turbines. International Journal of Fluid Machinery and Systems, 2019, 12, 345-367.	0.5	14
15	Investigation of the unsteady pressure pulsations in the prototype Francis turbines " Part 1: Steady state operating conditions. Mechanical Systems and Signal Processing, 2018, 108, 188-202.	4.4	34
16	Experimental Investigation of a Francis Turbine during Exigent Ramping and Transition into Total Load Rejection. Journal of Hydraulic Engineering, 2018, 144, .	0.7	18
17	Experimental study of a Francis turbine under variable-speed and discharge conditions. Renewable Energy, 2018, 119, 447-458.	4.3	38
18	Investigations of Compressible Turbulent Flow in a High-Head Francis Turbine. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	29

#	ARTICLE	IF	CITATIONS
19	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, .	0.5	27
20	Time-Dependent Effects of Glaze Ice on the Aerodynamic Characteristics of an Airfoil. <i>International Journal of Rotating Machinery</i> , 2018, 2018, 1-14.	0.8	3
21	Interaction between trailing edge wake and vortex rings in a Francis turbine at runaway condition: Compressible large eddy simulation. <i>Physics of Fluids</i> , 2018, 30, .	1.6	37
22	Investigations of unsteady pressure loading in a Francis turbine during variable-speed operation. <i>Renewable Energy</i> , 2017, 113, 397-410.	4.3	39
23	A review on fluid structure interaction in hydraulic turbines: A focus on hydrodynamic damping. <i>Engineering Failure Analysis</i> , 2017, 77, 1-22.	1.8	55
24	Fluid-structure interactions in Francis turbines: A perspective review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 87-101.	8.2	88
25	Investigation of the unsteady pressure pulsations in the prototype Francis turbines during load variation and startup. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	31
26	Experimental and Numerical Studies of a High-Head Francis Turbine: A Review of the Francis-99 Test Case. <i>Energies</i> , 2016, 9, 74.	1.6	57
27	Investigation of a High Head Francis Turbine at Runaway Operating Conditions. <i>Energies</i> , 2016, 9, 149.	1.6	52
28	Design and development of guide vane cascade for a low speed number Francis turbine. <i>Journal of Hydrodynamics</i> , 2016, 28, 676-689.	1.3	27
29	Transient pressure measurements at part load operating condition of a high head model Francis turbine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016, 41, 1311-1320.	0.8	21
30	Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review. <i>Applied Mechanics Reviews</i> , 2016, 68, .	4.5	65
31	Experimental investigations of a model Francis turbine during shutdown at synchronous speed. <i>Renewable Energy</i> , 2015, 83, 828-836.	4.3	67
32	Experimental Investigation of a High Head Francis Turbine During Spin-No-Load Operation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	0.8	38
33	Transient Pressure Measurements on a High Head Model Francis Turbine During Emergency Shutdown, Total Load Rejection, and Runaway. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	0.8	88
34	Experimental investigations of transient pressure variations in a high head model Francis turbine during start-up and shutdown. <i>Journal of Hydrodynamics</i> , 2014, 26, 277-290.	1.3	68
35	Effect of transients on Francis turbine runner life: a review. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013, 51, 121-132.	0.7	190
36	Experimental and Numerical Studies for a High Head Francis Turbine at Several Operating Points. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	0.8	134