Sailesh Chitrakar

List of Publications by Year
in descending order

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Version: 2024-02-01

30	235	1163117 8	996975 15
papers	citations	h-index	g-index

30	30	30	106
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical and experimental investigation of erosive wear in Francis runner blade optimized for sediment laden hydropower projects in Nepal. Sustainable Energy Technologies and Assessments, 2022, 51, 101954.	2.7	1
2	Development of simplified model for prediction of sediment induced erosion in Francis turbineâ€™s sidewall gaps. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012016.	0.3	0
3	A review on erosion and erosion induced vibrations in Francis turbine. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012028.	0.3	1
4	Numerical investigation of a Pelton turbine at several operating conditions. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012053.	0.3	3
5	Investigation of sediment erosion in low head Francis turbines and its effect on the structural integrity. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012020.	0.3	0
6	Recent developments in the optimization of Francis turbine components for minimizing sediment erosion. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012009.	0.3	0
7	Sediment erosion in the labyrinths of Francis turbine: A numerical study. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012032.	0.3	1
8	Credibility of Rotating Disc Apparatus for investigating sediment erosion in guide vanes of Francis turbines. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012034.	0.3	0
9	Leakage Vortex Progression through a Guide Vaneâ€™s Clearance Gap and the Resulting Pressure Fluctuation in a Francis Turbine. Energies, 2021, 14, 4244.	3.1	4
10	Sediment erosion in low specific speed francis turbines: A case study on effects and causes. Wear, 2020, 442-443, 203152.	3.1	23
11	Method of erosion prediction hill diagram to investigate the performance of Francis turbine operated in sediment laden water. Journal of Physics: Conference Series, 2020, 1608, 012017.	0.4	0
12	Numerical investigation on the effects of leakage flow from Guide vane-clearance gaps in low specific speed Francis turbines. Journal of Physics: Conference Series, 2020, 1608, 012016.	0.4	1
13	Review on numerical techniques applied in impulse hydro turbines. Renewable Energy, 2020, 159, 843-859.	8.9	25
14	Development of a test rig for investigating the flow field around guide vanes of Francis turbines. Flow Measurement and Instrumentation, 2019, 70, 101648.	2.0	9
15	Methodology to Predict Effects of Leakage Flow from Guide Vanes of Francis Turbine. Journal of Physics: Conference Series, 2019, 1266, 012003.	0.4	4
16	The numerical and experimental investigation of erosion induced leakage flow through guide vanes of Francis turbine. IOP Conference Series: Earth and Environmental Science, 2019, 240, 072002.	0.3	1
17	Role of Turbine Testing Lab for overcoming the challenges related to hydropower development in Nepal. IOP Conference Series: Earth and Environmental Science, 2019, 240, 042012.	0.3	1
18	Numerical investigation of the effect of leakage flow through erosion-induced clearance gaps of guide vanes on the performance of Francis turbines. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 662-678.	3.1	22

#	Article	IF	Citations
19	Particle Image Velocimetry Investigation of the Leakage Flow Through Clearance Gaps in Cambered Hydrofoils. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	11
20	Numerical and experimental study of the leakage flow in guide vanes with different hydrofoils. Journal of Computational Design and Engineering, 2017, 4, 218-230.	3.1	27
21	Numerical investigation of the flow phenomena around a low specific speed Francis turbine's guide vane cascade. IOP Conference Series: Earth and Environmental Science, 2016, 49, 062016.	0.3	7
22	Computational and experimental study of an ultra-low head turbine. , 2016, , .		1
23	Study of the simultaneous effects of secondary flow and sediment erosion in Francis turbines. Renewable Energy, 2016, 97, 881-891.	8.9	48
24	Implementation of Computer Aided Engineering for Francis Turbine Development in Nepal. International Journal of Manufacturing Engineering, 2015, 2015, 1-9.	0.8	7
25	Analysis of Sediment Samples and Erosion Potential: A Case Study of Upper Tamakoshi Hydroelectric Project. Hydro Nepal: Journal of Water, Energy & Environment, 2015, 16, 28-31.	0.1	5
26	Selection of Optimal Number of Francis Runner Blades for a Sediment Laden Micro Hydropower Plant in Nepal. International Journal of Fluid Machinery and Systems, 2015, 8, 294-303.	0.2	5
27	Fully coupled FSI analysis of Francis turbines exposed to sediment erosion. International Journal of Fluid Machinery and Systems, 2014, 7, 101-109.	0.2	21
28	A Review on Sediment Erosion Challenges in Hydraulic Turbines. , 0, , .		7
29	Numerical prediction of sediment erosion in reference Francis turbine for complete operating range. IOP Conference Series: Earth and Environmental Science, 0, 627, 012011.	0.3	0
30	Comparison of the effects of leakage flow from guide vanes of different hydrofoils using alternative clearance gap approach. IOP Conference Series: Earth and Environmental Science, 0, 627, 012010.	0.3	0