

# Sailesh Chitrakar

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

235  
citations

1163117

8  
h-index

996975

15  
g-index

30  
all docs

30  
docs citations

30  
times ranked

106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the simultaneous effects of secondary flow and sediment erosion in Francis turbines. <i>Renewable Energy</i> , 2016, 97, 881-891.	8.9	48
2	Numerical and experimental study of the leakage flow in guide vanes with different hydrofoils. <i>Journal of Computational Design and Engineering</i> , 2017, 4, 218-230.	3.1	27
3	Review on numerical techniques applied in impulse hydro turbines. <i>Renewable Energy</i> , 2020, 159, 843-859.	8.9	25
4	Sediment erosion in low specific speed francis turbines: A case study on effects and causes. <i>Wear</i> , 2020, 442-443, 203152.	3.1	23
5	Numerical investigation of the effect of leakage flow through erosion-induced clearance gaps of guide vanes on the performance of Francis turbines. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 662-678.	3.1	22
6	Fully coupled FSI analysis of Francis turbines exposed to sediment erosion. <i>International Journal of Fluid Machinery and Systems</i> , 2014, 7, 101-109.	0.2	21
7	Particle Image Velocimetry Investigation of the Leakage Flow Through Clearance Gaps in Cambered Hydrofoils. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	11
8	Development of a test rig for investigating the flow field around guide vanes of Francis turbines. <i>Flow Measurement and Instrumentation</i> , 2019, 70, 101648.	2.0	9
9	Implementation of Computer Aided Engineering for Francis Turbine Development in Nepal. <i>International Journal of Manufacturing Engineering</i> , 2015, 2015, 1-9.	0.8	7
10	Numerical investigation of the flow phenomena around a low specific speed Francis turbine's guide vane cascade. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 49, 062016.	0.3	7
11	A Review on Sediment Erosion Challenges in Hydraulic Turbines. , 0, , .		7
12	Analysis of Sediment Samples and Erosion Potential: A Case Study of Upper Tamakoshi Hydroelectric Project. <i>Hydro Nepal: Journal of Water, Energy &amp; Environment</i> , 2015, 16, 28-31.	0.1	5
13	Selection of Optimal Number of Francis Runner Blades for a Sediment Laden Micro Hydropower Plant in Nepal. <i>International Journal of Fluid Machinery and Systems</i> , 2015, 8, 294-303.	0.2	5
14	Methodology to Predict Effects of Leakage Flow from Guide Vanes of Francis Turbine. <i>Journal of Physics: Conference Series</i> , 2019, 1266, 012003.	0.4	4
15	Leakage Vortex Progression through a Guide Vane's Clearance Gap and the Resulting Pressure Fluctuation in a Francis Turbine. <i>Energies</i> , 2021, 14, 4244.	3.1	4
16	Numerical investigation of a Pelton turbine at several operating conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1037, 012053.	0.3	3
17	Computational and experimental study of an ultra-low head turbine. , 2016, , .		1
18	The numerical and experimental investigation of erosion induced leakage flow through guide vanes of Francis turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 240, 072002.	0.3	1

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	A review on erosion and erosion induced vibrations in Francis turbine. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012028.	0.3	1
23	Sediment erosion in the labyrinths of Francis turbine: A numerical study. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012032.	0.3	1
24	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
25	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
26	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
27	Development of simplified model for prediction of sediment induced erosion in Francis turbine's sidewall gaps. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012016.	0.3	0
28	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
29	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
30	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