

Ole Gunnar Dahlhaug

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,247
citations

331259

21
h-index

377514

34
g-index

52
all docs

52
docs citations

52
times ranked

545
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. | 1.7 | 1 |
| 2 | 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. | 0.2 | 0 |
| 3 | Recent developments in the optimization of Francis turbine components for minimizing sediment erosion. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012009. | 0.2 | 0 |
| 4 | Sediment erosion in the labyrinths of Francis turbine: A numerical study. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012032. | 0.2 | 1 |
| 5 | Constraints of Parametrically Defined Guide Vanes for a High-Head Francis Turbine. Energies, 2021, 14, 2667. | 1.6 | 3 |
| 6 | 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 |
| 7 | Investigation of a Francis turbine during speed variation: Inception of cavitation. Renewable Energy, 2020, 166, 147-162. | 4.3 | 23 |
| 8 | Review on numerical techniques applied in impulse hydro turbines. Renewable Energy, 2020, 159, 843-859. | 4.3 | 25 |
| 9 | Numerical Study of a Francis Turbine over Wide Operating Range: Some Practical Aspects of Verification. Sustainability, 2020, 12, 4301. | 1.6 | 7 |
| 10 | Experimental Study of Flow Structure in Converging-Diverging Axisymmetric Geometry. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, . | 0.8 | 0 |
| 11 | Signature analysis of characteristic frequencies in a Francis turbine. IOP Conference Series: Earth and Environmental Science, 2019, 240, 072008. | 0.2 | 2 |
| 12 | Development of a test rig for investigating the flow field around guide vanes of Francis turbines. Flow Measurement and Instrumentation, 2019, 70, 101648. | 1.0 | 9 |
| 13 | Numerical prediction of hill charts of Francis turbines. Journal of Physics: Conference Series, 2019, 1266, 012011. | 0.3 | 3 |
| 14 | Francis-99 Workshop 3: Fluid structure interaction. Journal of Physics: Conference Series, 2019, 1296, 011001. | 0.3 | 2 |
| 15 | 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. | 0.2 | 1 |
| 16 | Study of flow structure in erosion prone complex geometries. IOP Conference Series: Earth and Environmental Science, 2019, 240, 092005. | 0.2 | 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. | 0.2 | 1 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Experimental Investigation of a Francis Turbine during Exigent Ramping and Transition into Total Load Rejection. Journal of Hydraulic Engineering, 2018, 144, . | 0.7 | 18 |
| 22 | Experimental study of a Francis turbine under variable-speed and discharge conditions. Renewable Energy, 2018, 119, 447-458. | 4.3 | 38 |
| 23 | Flow measurements around guide vanes of Francis turbine: A PIV approach. Renewable Energy, 2018, 126, 177-188. | 4.3 | 22 |
| 24 | 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. | 1.5 | 22 |
| 25 | Interaction between trailing edge wake and vortex rings in a Francis turbine at runaway condition: Compressible large eddy simulation. Physics of Fluids, 2018, 30, . | 1.6 | 37 |
| 26 | Literature review relevant to particle erosion in complex geometries. Journal of Physics: Conference Series, 2018, 1042, 012002. | 0.3 | 1 |
| 27 | Sediment erosion induced leakage flow from guide vane clearance gap in a low specific speed Francis turbine. Renewable Energy, 2017, 107, 253-261. | 4.3 | 41 |
| 28 | Particle Image Velocimetry Investigation of the Leakage Flow Through Clearance Gaps in Cambered Hydrofoils. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, . | 0.8 | 11 |
| 29 | Investigations of unsteady pressure loading in a Francis turbine during variable-speed operation. Renewable Energy, 2017, 113, 397-410. | 4.3 | 39 |
| 30 | Numerical and experimental study of the leakage flow in guide vanes with different hydrofoils. Journal of Computational Design and Engineering, 2017, 4, 218-230. | 1.5 | 27 |
| 31 | Effects of sediment erosion in guide vanes of Francis turbine. Wear, 2017, 390-391, 104-112. | 1.5 | 14 |
| 32 | Investigation of the unsteady pressure pulsations in the prototype Francis turbines during load variation and startup. Journal of Renewable and Sustainable Energy, 2017, 9, . | 0.8 | 31 |
| 33 | On the relation between friction losses and pressure pulsations caused by Rotor Stator interaction on the Francis-99 turbine. Journal of Physics: Conference Series, 2017, 782, 012010. | 0.3 | 2 |
| 34 | Experimental and Numerical Studies of a High-Head Francis Turbine: A Review of the Francis-99 Test Case. Energies, 2016, 9, 74. | 1.6 | 57 |
| 35 | 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. | 0.2 | 7 |
| 36 | Evaluation of runner cone extension to dampen pressure pulsations in a Francis model turbine. IOP Conference Series: Earth and Environmental Science, 2016, 49, 082019. | 0.2 | 11 |

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|----|--|-----|-----------|
| 37 | Design and development of guide vane cascade for a low speed number Francis turbine. Journal of Hydrodynamics, 2016, 28, 676-689. | 1.3 | 27 |
| 38 | Study of the simultaneous effects of secondary flow and sediment erosion in Francis turbines. Renewable Energy, 2016, 97, 881-891. | 4.3 | 48 |
| 39 | Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review. Applied Mechanics Reviews, 2016, 68, . | 4.5 | 65 |
| 40 | Sediment erosion in hydro turbines and its effect on the flow around guide vanes of Francis turbine. Renewable and Sustainable Energy Reviews, 2015, 49, 1100-1113. | 8.2 | 75 |
| 41 | Experimental investigations of a model Francis turbine during shutdown at synchronous speed. Renewable Energy, 2015, 83, 828-836. | 4.3 | 67 |
| 42 | CFD Analysis of Wave-Induced Loads on Tidal Turbine Blades. IEEE Journal of Oceanic Engineering, 2015, 40, 506-521. | 2.1 | 22 |
| 43 | University cooperation as a development tool in poor countries. , 2014, , . | | 0 |
| 44 | Pressure measurements on a high-head Francis turbine during load acceptance and rejection. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 283-297. | 0.7 | 70 |
| 45 | Prediction of Wave Loads on Tidal Turbine Blades. Energy Procedia, 2012, 20, 116-133. | 1.8 | 41 |
| 46 | Current research in hydraulic turbines for handling sediments. Energy, 2012, 47, 62-69. | 4.5 | 64 |
| 47 | Empirical modelling of sediment erosion in Francis turbines. Energy, 2012, 41, 386-391. | 4.5 | 86 |
| 48 | Sand erosion of Pelton turbine nozzles and buckets: A case study of Chilime Hydropower Plant. Wear, 2008, 264, 177-184. | 1.5 | 102 |
| 49 | A Review on Sediment Erosion Challenges in Hydraulic Turbines. , 0, , . | | 7 |
| 50 | Current research in hydraulic turbines against sediment erosion: International partnership and collaborations. IOP Conference Series: Earth and Environmental Science, 0, 627, 012019. | 0.2 | 1 |