

Romeo Florin Susan-Resiga

List of Publications by Year in descending order

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62
papers

778
citations

687363

13
h-index

526287

27
g-index

62
all docs

62
docs citations

62
times ranked

337
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Analysis of the Swirling Flow Downstream a Francis Turbine Runner. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 177-189. | 1.5 | 157 |
| 2 | Unsteady Pressure Analysis of a Swirling Flow With Vortex Rope and Axial Water Injection in a Discharge Cone. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, . | 1.5 | 105 |
| 3 | Analysis and Prevention of Vortex Breakdown in the Simplified Discharge Cone of a Francis Turbine. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, . | 1.5 | 55 |
| 4 | Mathematical modelling of swirling flow in hydraulic turbines for the full operating range. Applied Mathematical Modelling, 2011, 35, 4759-4773. | 4.2 | 51 |
| 5 | Axisymmetric Swirling Flow Simulation of the Draft Tube Vortex in Francis Turbines at Partial Discharge. International Journal of Fluid Machinery and Systems, 2009, 2, 295-302. | 0.2 | 36 |
| 6 | Experimental and Numerical Investigation of the Precessing Helical Vortex in a Conical Diffuser, With Rotor-Stator Interaction. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, . | 1.5 | 33 |
| 7 | Flow-Feedback Method for Mitigating the Vortex Rope in Decelerated Swirling Flows. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, . | 1.5 | 32 |
| 8 | Proper Orthogonal Decomposition of Self-Induced Instabilities in Decelerated Swirling Flows and Their Mitigation Through Axial Water Injection. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, . | 1.5 | 27 |
| 9 | Computation of stress distribution in a Francis turbine runner induced by fluid flow. Computational Materials Science, 2012, 64, 253-259. | 3.0 | 20 |
| 10 | Unsteady pressure measurements of decelerated swirling flow in a discharge cone at lower runner speeds. IOP Conference Series: Earth and Environmental Science, 2014, 22, 032008. | 0.3 | 20 |
| 11 | A Novel Passive Method to Control the Swirling Flow with Vortex Rope from the Conical Diffuser of Hydraulic Turbines with Fixed Blades. Applied Sciences (Switzerland), 2019, 9, 4910. | 2.5 | 19 |
| 12 | Modelling and optimization of the velocity profiles at the draft tube inlet of a Francis turbine within an operating range. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 74-89. | 1.7 | 18 |
| 13 | A Domain Decomposition Method for the Exterior Helmholtz Problem. Journal of Computational Physics, 1998, 147, 388-401. | 3.8 | 17 |
| 14 | Determination of the Mechanical Requirements for a Progressive Correction System of Pectus Excavatum in Children. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2005, 15, 478-481. | 1.0 | 12 |
| 15 | Numerical Model for Cavitation Flow in Hydraulic Poppet Valves. Modelling and Simulation in Engineering, 2012, 2012, 1-10. | 0.7 | 11 |
| 16 | Velocity and pressure fluctuations induced by the precessing helical vortex in a conical diffuser. IOP Conference Series: Earth and Environmental Science, 2014, 22, 032009. | 0.3 | 11 |
| 17 | Weighted proper orthogonal decomposition of the swirling flow exiting the hydraulic turbine runner. Applied Mathematical Modelling, 2016, 40, 4057-4078. | 4.2 | 10 |
| 18 | CFD Simulation of Solid Suspension for a Liquid-Solid Industrial Stirred Reactor. Applied Sciences (Switzerland), 2021, 11, 5705. | 2.5 | 10 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Fluid dynamics in helical geometries with applications for by-pass grafts. Applied Mathematics and Computation, 2016, 272, 604-613. | 2.2 | 9 |
| 20 | A New Approach in Numerical Assessment of the Cavitation Behaviour of Centrifugal Pumps. International Journal of Fluid Machinery and Systems, 2011, 4, 104-113. | 0.2 | 8 |
| 21 | Influence of the velocity field at the inlet of a Francis turbine draft tube on performance over an operating range. IOP Conference Series: Earth and Environmental Science, 2012, 15, 032008. | 0.3 | 8 |
| 22 | A variational model for swirling flow states with stagnant region. European Journal of Mechanics, B/Fluids, 2016, 55, 104-115. | 2.5 | 7 |
| 23 | Competitive flow and anastomosis angle influence on bypass hemodynamics in unsteady flow conditions. AIP Conference Proceedings, 2017, , . | 0.4 | 7 |
| 24 | Decelerated Swirling Flow Control in the Discharge Cone of Francis Turbines. , 2009, , 89-96. | | 7 |
| 25 | Surrogate runner model for draft tube losses computation within a wide range of operating points. IOP Conference Series: Earth and Environmental Science, 2014, 22, 012022. | 0.3 | 6 |
| 26 | Scenarios for refurbishment of a hydropower plant equipped with Francis turbines. Renewable Energy and Environmental Sustainability, 2016, 1, 30. | 1.4 | 6 |
| 27 | The Complex Dynamics of the Precessing Vortex Rope in a Straight Diffuser. IOP Conference Series: Earth and Environmental Science, 2016, 49, 082013. | 0.3 | 6 |
| 28 | CFD Assessment of the Hydrodynamic Performance of Two Impellers for a Baffled Stirred Reactor. Applied Sciences (Switzerland), 2021, 11, 4949. | 2.5 | 6 |
| 29 | Effects of different types of input waveforms in patient-specific right coronary atherosclerosis hemodynamics analysis. International Journal of Design and Nature and Ecodynamics, 2010, 5, 142-159. | 0.5 | 6 |
| 30 | Experimental investigations of the swirling flow in the conical diffuser using flow-feedback control technique with additional energy source. IOP Conference Series: Earth and Environmental Science, 2012, 15, 062043. | 0.3 | 5 |
| 31 | A model for precessing helical vortex in the turbine discharge cone. IOP Conference Series: Earth and Environmental Science, 2014, 22, 022024. | 0.3 | 5 |
| 32 | Numerical assessment of a novel concept for mitigating the unsteady pressure pulsations associated to decelerating swirling flow with precessing helical vortex. AIP Conference Proceedings, 2015, , . | 0.4 | 5 |
| 33 | Flow-Feedback for Pressure Fluctuation Mitigation and Pressure Recovery Improvement in a Conical Diffuser with Swirl. International Journal of Fluid Machinery and Systems, 2011, 4, 47-56. | 0.2 | 5 |
| 34 | A New Domain Decomposition Approach for the Gust Response Problem. , 2003, , . | | 4 |
| 35 | Mathematical, numerical and experimental analysis of the swirling flow at a Kaplan runner outlet. IOP Conference Series: Earth and Environmental Science, 2012, 15, 032001. | 0.3 | 4 |
| 36 | Hydrodynamic Investigations in a Swirl Generator Using a Magneto-Rheological Brake. Advanced Structured Materials, 2017, , 209-218. | 0.5 | 4 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Experimental Investigation of the Unsteady Pressure Field in Decelerated Swirling Flow with 74° Sharp Heel Elbow. Journal of Physics: Conference Series, 2017, 813, 012046. | 0.4 | 4 |
| 38 | A Mathematical Model for the Swirling Flow Ingested by the Draft Tube of Francis Turbines. Wasserwirtschaft, 2015, 105, 23-27. | 0.3 | 3 |
| 39 | 3D Numerical Simulation versus Experimental Assessment of Pressure Pulsations Using a Passive Method for Swirling Flow Control in Conical Diffusers of Hydraulic Turbines. IOP Conference Series: Earth and Environmental Science, 2016, 49, 082018. | 0.3 | 3 |
| 40 | Parallel computing using Schwarz Domain Decomposition method for aeroacoustic problems. , 1998, , . | | 2 |
| 41 | Methodology to assess integrity with application to collector copper lamellas. Theoretical and Applied Fracture Mechanics, 2010, 53, 136-144. | 4.7 | 2 |
| 42 | Proper orthogonal decomposition method in swirling flows applications. , 2013, , . | | 2 |
| 43 | Numerical simulation of the swirl generator discharge cone at lower runner speeds. , 2013, , . | | 2 |
| 44 | LATTICE BOLTZMANN APPROACH TO VISCOUS FLOWS BETWEEN PARALLEL PLATES. International Journal of Modern Physics C, 1995, 06, 345-358. | 1.7 | 1 |
| 45 | Domain-Decomposition Method for Time-Harmonic Aeroacoustic Problems. AIAA Journal, 2001, 39, 802-809. | 2.6 | 1 |
| 46 | Finite Element Implementation of Nonreflecting Far-field Conditions for Unsteady Aerodynamics and Aeroacoustics. , 2002, , . | | 1 |
| 47 | 3D numerical analysis of pulsating water jet in the draft tube cone of hydraulic machinery. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 48 | Vortex Breakdown in Decelerated Swirling Flows. , 2019, , . | | 1 |
| 49 | Improving the Homogenization of the Liquid-Solid Mixture Using a Tandem of Impellers in a Baffled Industrial Reactor. Applied Sciences (Switzerland), 2021, 11, 5492. | 2.5 | 1 |
| 50 | Investigations on Fracture of Collector Copper Lamellas. , 2009, , 261-273. | | 1 |
| 51 | Particle motion in coronary serial stenoses. , 2013, , . | | 1 |
| 52 | A domain decomposition algorithm on unstructured mesh for aerodynamic-aeroacoustic applications. , 2000, , . | | 0 |
| 53 | The influence of number of turns to helicity variations at the outlet sections in helical geometries with applications for by-pass graft. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 54 | Numerical analysis of the temperature field in a magneto-rheological brake. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | A helical pipe investigation from a cardiovascular perspective. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 56 | Swirling Flow Computation at the Trailing Edge of Radial-Axial Hydraulic Turbines. IOP Conference Series: Earth and Environmental Science, 2016, 49, 082012. | 0.3 | 0 |
| 57 | Efficient proper orthogonal decomposition for parameter dependent problems with applications to hydraulic turbines. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 58 | The influence of stenosis degrees and graft suture position on local hemodynamics of coronary bypass. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 59 | Numerical analysis of temperature and torque in a Magneto-rheological clutch. AIP Conference Proceedings, 2017, , . | 0.4 | 0 |
| 60 | Numerical Analysis of Pulsating Water Jet Method for Mitigating the Vortex Rope. , 2019, , . | | 0 |
| 61 | Design and Optimization of an Axial Expansion Turbine for Energy Recovery. , 2019, , . | | 0 |
| 62 | Computational hemodynamics analysis in realistic 3D geometries of the human coronary atherosclerosis. WIT Transactions on Biomedicine and Health, 2009, , . | 0.0 | 0 |