

Romeo Florin Susan-Resiga

List of Publications by Year in descending order

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papers

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687363

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62
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	CFD Assessment of the Hydrodynamic Performance of Two Impellers for a Baffled Stirred Reactor. Applied Sciences (Switzerland), 2021, 11, 4949.	2.5	6
2	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
3	CFD Simulation of Solid Suspension for a Liquid-Solid Industrial Stirred Reactor. Applied Sciences (Switzerland), 2021, 11, 5705.	2.5	10
4	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
5	3D numerical analysis of pulsating water jet in the draft tube cone of hydraulic machinery. AIP Conference Proceedings, 2019, , .	0.4	1
6	Numerical Analysis of Pulsating Water Jet Method for Mitigating the Vortex Rope. , 2019, , .		0
7	Vortex Breakdown in Decelerated Swirling Flows. , 2019, , .		1
8	Design and Optimization of an Axial Expansion Turbine for Energy Recovery. , 2019, , .		0
9	Hydrodynamic Investigations in a Swirl Generator Using a Magneto-Rheological Brake. Advanced Structured Materials, 2017, , 209-218.	0.5	4
10	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
11	Competitive flow and anastomosis angle influence on bypass hemodynamics in unsteady flow conditions. AIP Conference Proceedings, 2017, , .	0.4	7
12	Numerical analysis of temperature and torque in a Magneto-rheological clutch. AIP Conference Proceedings, 2017, , .	0.4	0
13	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
14	Scenarios for refurbishment of a hydropower plant equipped with Francis turbines. Renewable Energy and Environmental Sustainability, 2016, 1, 30.	1.4	6
15	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
16	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
17	Efficient proper orthogonal decomposition for parameter dependent problems with applications to hydraulic turbines. AIP Conference Proceedings, 2016, , .	0.4	0
18	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

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19	A variational model for swirling flow states with stagnant region. European Journal of Mechanics, B/Fluids, 2016, 55, 104-115.	2.5	7
20	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
21	The influence of stenosis degrees and graft suture position on local hemodynamics of coronary bypass. AIP Conference Proceedings, 2016, , .	0.4	0
22	Fluid dynamics in helical geometries with applications for by-pass grafts. Applied Mathematics and Computation, 2016, 272, 604-613.	2.2	9
23	Weighted proper orthogonal decomposition of the swirling flow exiting the hydraulic turbine runner. Applied Mathematical Modelling, 2016, 40, 4057-4078.	4.2	10
24	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
25	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
26	Numerical analysis of the temperature field in a magneto-rheological brake. AIP Conference Proceedings, 2015, , .	0.4	0
27	A Mathematical Model for the Swirling Flow Ingested by the Draft Tube of Francis Turbines. Wasserwirtschaft, 2015, 105, 23-27.	0.3	3
28	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
29	A helical pipe investigation from a cardiovascular perspective. AIP Conference Proceedings, 2015, , .	0.4	0
30	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
31	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
32	A model for precessing helical vortex in the turbine discharge cone. IOP Conference Series: Earth and Environmental Science, 2014, 22, 022024.	0.3	5
33	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
34	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
35	Proper orthogonal decomposition method in swirling flows applications. , 2013, , .		2
36	Numerical simulation of the swirl generator discharge cone at lower runner speeds. , 2013, , .		2

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37	Particle motion in coronary serial stenoses. , 2013, , .		1
38	Numerical Model for Cavitation Flow in Hydraulic Poppet Valves. Modelling and Simulation in Engineering, 2012, 2012, 1-10.	0.7	11
39	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
40	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
41	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
42	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
43	Computation of stress distribution in a Francis turbine runner induced by fluid flow. Computational Materials Science, 2012, 64, 253-259.	3.0	20
44	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
45	Mathematical modelling of swirling flow in hydraulic turbines for the full operating range. Applied Mathematical Modelling, 2011, 35, 4759-4773.	4.2	51
46	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
47	Methodology to assess integrity with application to collector copper lamellas. Theoretical and Applied Fracture Mechanics, 2010, 53, 136-144.	4.7	2
48	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
49	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
50	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
51	Investigations on Fracture of Collector Copper Lamellas. , 2009, , 261-273.		1
52	Decelerated Swirling Flow Control in the Discharge Cone of Francis Turbines. , 2009, , 89-96.		7
53	Computational hemodynamics analysis in realistic 3D geometries of the human coronary atherosclerosis. WIT Transactions on Biomedicine and Health, 2009, , .	0.0	0
54	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

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55	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
56	A New Domain Decomposition Approach for the Gust Response Problem. , 2003, , .		4
57	Finite Element Implementation of Nonreflecting Far-field Conditions for Unsteady Aerodynamics and Aeroacoustics. , 2002, , .		1
58	Domain-Decomposition Method for Time-Harmonic Aeroacoustic Problems. AIAA Journal, 2001, 39, 802-809.	2.6	1
59	A domain decomposition algorithm on unstructured mesh for aerodynamic-aeroacoustic applications. , 2000, , .		0
60	A Domain Decomposition Method for the Exterior Helmholtz Problem. Journal of Computational Physics, 1998, 147, 388-401.	3.8	17
61	Parallel computing using Schwarz Domain Decomposition method for aeroacoustic problems. , 1998, , .		2
62	LATTICE BOLTZMANN APPROACH TO VISCOUS FLOWS BETWEEN PARALLEL PLATES. International Journal of Modern Physics C, 1995, 06, 345-358.	1.7	1