

Michel J Cervantes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,172
citations

20
h-index

31
g-index

86
ext. papers

1,417
ext. citations

3.2
avg, IF

5.13
L-index

#	Paper	IF	Citations
75	Influence of runner cone profile and axial water jet injection in a low head Francis turbine at part load. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 50, 101810	4.7	2
74	Numerical Simulation and Experimental Validation of a Kaplan Prototype Turbine Operating on a Cam Curve. <i>Energies</i> , 2022 , 15, 4121	3.1	0
73	Mitigation of Draft Tube Pressure Pulsations by Radial Protrusion of Solid Bodies into the Flow Field: An Experimental Investigation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012004	0.3	0
72	Rotating vortex rope formation and mitigation in draft tube of hydro turbines [A review from experimental perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 136, 110354	16.2	14
71	Optimization of axial water injection to mitigate the Rotating Vortex Rope in a Francis turbine. <i>Renewable Energy</i> , 2021 , 175, 214-231	8.1	8
70	An Indirect Measurement Methodology to Identify Load Fluctuations on Axial Turbine Runner Blades. <i>Sensors</i> , 2020 , 20,	3.8	1
69	Numerical Simulation of the Flow in a Kaplan Turbine Model during Transient Operation from the Best Efficiency Point to Part Load. <i>Energies</i> , 2020 , 13, 3129	3.1	1
68	Effects of runner change on the Winter-Kennedy flow measurement method [A numerical study. <i>Renewable Energy</i> , 2020 , 153, 975-984	8.1	1
67	Numerical Study of the Winter-Kennedy Flow Measurement Method in Transient Flows. <i>Energies</i> , 2020 , 13, 1310	3.1	1
66	Experimental Investigation of a 10 MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020 , 142,	2.1	4
65	Investigation of Rotating Vortex Rope formation during load variation in a Francis turbine draft tube. <i>Renewable Energy</i> , 2020 , 151, 238-254	8.1	20
64	Synchronized PIV and pressure measurements on a model Francis turbine during start-up. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 70-86	1.9	7
63	Numerical investigation of entrapped air pockets on pressure surges and flow structure in a pipe. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 218-230	1.9	3
62	Computation of two- and three-dimensional water hammer flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019 , 57, 386-404	1.9	12
61	Improved frictional modeling for the pressure-time method. <i>Flow Measurement and Instrumentation</i> , 2019 , 69, 101604	2.2	1
60	Numerical Investigation of the Aeroelastic Behavior of a Wind Turbine with Iced Blades. <i>Energies</i> , 2019 , 12, 2422	3.1	11
59	Evaluation of transient effects in the pressure-time method. <i>Flow Measurement and Instrumentation</i> , 2019 , 68, 101581	2.2	1

58	Experimental Investigation of a 10 MW Prototype Kaplan Turbine during Start-Up Operation. <i>Energies</i> , 2019 , 12, 4582	3.1	4
57	An efficient multifidelity ϵ -minimization method for sparse polynomial chaos. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 334, 183-207	5.7	26
56	Laminar similarities between accelerating and decelerating turbulent flows. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 13-26	2.4	3
55	Characteristics of the wall shear stress in pulsating wall-bounded turbulent flows. <i>Experimental Thermal and Fluid Science</i> , 2018 , 96, 257-265	3	5
54	Numerical Simulation and Validation of a High Head Model Francis Turbine at Part Load Operating Condition. <i>Journal of the Institution of Engineers (India): Series C</i> , 2018 , 99, 557-570	0.9	6
53	PIV measurements in Francis turbine Δ A review and application to transient operations. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 2976-2991	16.2	21
52	On the Similarity of Pulsating and Accelerating Turbulent Pipe Flows. <i>Flow, Turbulence and Combustion</i> , 2018 , 100, 417-436	2.5	8
51	Numerical Investigation of the Pressure-Time Method Considering Pipe With Variable Cross Section. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	5
50	The self-similarity of wall-bounded temporally accelerating turbulent flows. <i>Journal of Turbulence</i> , 2018 , 19, 49-60	2.1	4
49	Numerical Study of the Winter-Kennedy Method Δ Sensitivity Analysis. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	5
48	A Review of Available Methods for the Assessment of Fluid Added Mass, Damping, and Stiffness With an Emphasis on Hydraulic Turbines. <i>Applied Mechanics Reviews</i> , 2018 , 70,	8.6	8
47	On the flow field and performance of a centrifugal pump under operational and geometrical uncertainties. <i>Applied Mathematical Modelling</i> , 2018 , 61, 540-560	4.5	10
46	Viscoelasticity and shear-thinning effects on bio-polymer solution and suspended particle behaviours under oscillatory curve Couette flow conditions. <i>Biosurface and Biotribology</i> , 2018 , 4, 1-17	1	
45	The Effects of Inflow Uncertainties on the Characteristics of Developing Turbulent Flow in Rectangular Pipe and Asymmetric Diffuser. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	6
44	Vortex Rope Formation in a High Head Model Francis Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	48
43	Sensitivity analysis on flow rate estimation using design of experiments: Application to the pressure-time method 2017 ,		1
42	Numerical investigation of the pressure-time method. <i>Flow Measurement and Instrumentation</i> , 2017 , 55, 44-58	2.2	10
41	Efficient uncertainty quantification of stochastic CFD problems using sparse polynomial chaos and compressed sensing. <i>Computers and Fluids</i> , 2017 , 154, 296-321	2.8	22

40	Transient wall shear stress measurements and estimates at high Reynolds numbers. <i>Flow Measurement and Instrumentation</i> , 2017 , 58, 112-119	2.2	7
39	Fluid-structure interactions in Francis turbines: A perspective review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 87-101	16.2	64
38	Experimental study of mitigation of a spiral vortex breakdown at high Reynolds number under an adverse pressure gradient. <i>Physics of Fluids</i> , 2017 , 29, 104104	4.4	29
37	Numerical analysis of fluid-added parameters for the torsional vibration of a Kaplan turbine model runner. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401773289	1.2	5
36	Maximum Pressure Evaluation during Expulsion of Entrapped Air from Pressurized Pipelines. <i>Journal of Applied Fluid Mechanics</i> , 2017 , 10, 11-20	1.5	5
35	Characteristics of Synchronous and Asynchronous modes of fluctuations in Francis turbine draft tube during load variation. <i>International Journal of Fluid Machinery and Systems</i> , 2017 , 10, 164-175	1.1	10
34	Viscoelastic behaviour effect of hyaluronic acid on reciprocating flow inside mini-channel. <i>Lubrication Science</i> , 2016 , 28, 521-544	1.3	5
33	Transient pressure measurements at part load operating condition of a high head model Francis turbine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016 , 41, 1311-1320	1	10
32	State of the art in numerical simulation of high head Francis turbines. <i>Renewable Energy and Environmental Sustainability</i> , 2016 , 1, 20	2.5	5
31	Experimental Investigation of the Interblade Flow in a Kaplan Runner at Several Operating Points Using Laser Doppler Anemometry. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016 , 138,	2.1	5
30	Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review. <i>Applied Mechanics Reviews</i> , 2016 , 68,	8.6	52
29	Unsteady pressure measurements on the runner of a Kaplan turbine during load acceptance and load rejection. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 56-73	1.9	34
28	EXPERIMENTAL STUDY ON FLOW ASYMMETRY AFTER THE DRAFT TUBE BEND OF A KAPLAN TURBINE. <i>Advances and Applications in Fluid Mechanics</i> , 2016 , 19, 441-472	0	3
27	Effects of load variation on a Kaplan turbine runner. <i>International Journal of Fluid Machinery and Systems</i> , 2016 , 9, 182-193	1.1	7
26	Experimental and Numerical Studies of a High-Head Francis Turbine: A Review of the Francis-99 Test Case. <i>Energies</i> , 2016 , 9, 74	3.1	42
25	Investigation of a High Head Francis Turbine at Runaway Operating Conditions. <i>Energies</i> , 2016 , 9, 149	3.1	36
24	Experimental Investigation of a High Head Model Francis Turbine During Steady-State Operation at Off-Design Conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 062018	0.3	4
23	Bio-lubricant flow behaviour in mini-channels. <i>Lubrication Science</i> , 2016 , 28, 221-242	1.3	3

22	Wall friction and velocity measurements in a double-frequency pulsating turbulent flow. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 521-548	3.7	4
21	Experimental investigations of a model Francis turbine during shutdown at synchronous speed. <i>Renewable Energy</i> , 2015 , 83, 828-836	8.1	51
20	Discharge evaluation from pressure measurements by a genetic algorithm based method. <i>Flow Measurement and Instrumentation</i> , 2015 , 45, 49-55	2.2	3
19	Experimental Investigation of a High Head Francis Turbine During Spin-No-Load Operation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015 , 137,	2.1	30
18	Simulation-based investigation of unsteady flow in near-hub region of a Kaplan Turbine with experimental comparison. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015 , 9, 139-156	4.5	18
17	Francis-99 Workshop 1: steady operation of Francis turbines. <i>Journal of Physics: Conference Series</i> , 2015 , 579, 011001	0.3	13
16	Preliminary Measurements of the Radial Velocity in the Francis-99 Draft Tube Cone. <i>Journal of Physics: Conference Series</i> , 2015 , 579, 012014	0.3	4
15	Experimental investigation of the hydraulic loads on the runner of a Kaplan turbine model and the corresponding prototype. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015 , 53, 452-465	1.9	20
14	Maximum power point tracking for micro hydro power plants using extremum seeking control 2015 ,		3
13	Pressure measurements on a high-head Francis turbine during load acceptance and rejection. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014 , 52, 283-297	1.9	51
12	Experimental investigations of transient pressure variations in a high head model Francis turbine during start-up and shutdown. <i>Journal of Hydrodynamics</i> , 2014 , 26, 277-290	3.3	52
11	Fully coupled FSI analysis of Francis turbines exposed to sediment erosion. <i>International Journal of Fluid Machinery and Systems</i> , 2014 , 7, 101-109	1.1	16
10	Transient Pressure Measurements on a High Head Model Francis Turbine During Emergency Shutdown, Total Load Rejection, and Runaway. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014 , 136,	2.1	73
9	Steady state and dynamic characteristics for guide bearings of a hydro-electric unit. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014 , 228, 836-848	1.4	3
8	Experimental and Numerical Studies for a High Head Francis Turbine at Several Operating Points. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013 , 135,	2.1	101
7	Development of the Gibson method Unsteady friction. <i>Flow Measurement and Instrumentation</i> , 2012 , 23, 19-25	2.2	14
6	3D thermohydrodynamic analysis of a textured slider. <i>Tribology International</i> , 2009 , 42, 1487-1495	4.9	23
5	Pulsating turbulent flow in a straight asymmetric diffuser. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008 , 46, 112-128	1.9	6

4	Pressure Buildup Mechanism in a Textured Inlet of a Hydrodynamic Contact. <i>Journal of Tribology</i> , 2008 , 130,	1.8	51
3	On the Use of the Squire-Long Equation to Estimate Radial Velocities in Swirling Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 209-217	2.1	9
2	Unsteadiness and viscous losses in hydraulic turbines. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 249-258	1.9	6
1	Factorial Design Applied to CFD. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004 , 126, 791-798	2.2	12