Florent Ravelet

List of Publications by Year
in descending order

58 papers	1,839 citations	331670 21 h-index	254184 43 g-index
60 all docs	60 docs citations	60 times ranked	954 citing authors

#	Article	IF	Citations
1	Innovative design method and experimental investigation of a small-scale and very low tip-speed ratio wind turbine. Experimental Thermal and Fluid Science, 2022, 130, 110504.	2.7	12
2	Effects of some settings of rotational-molding process on the aeromechanical performance of an axial fan.. Journal of Physics: Conference Series, 2021, 1909, 012024.	0.4	0
3	Experimental study of a centrifugal compressor with two successive and counter-rotating impellers. Journal of Physics: Conference Series, 2021, 1909, 012023.	0.4	2
4	Editorial for Special Issue: New Advances of Cavitation Instabilities. Applied Sciences (Switzerland), 2021, 11, 5313.	2.5	0
5	Improved Aerodynamics of a Hollow-Blade Axial Flow Fan by Controlling the Leakage Flow Rate by Air Injection at the Rotating Shroud. Entropy, 2021, 23, 877.	2.2	2
6	Experimental Study of a Novel Centrifugal Compressor with Two Successive and Independent Rotors. Journal of Engineering for Gas Turbines and Power, 2021, , .	1.1	1
7	CFD Analysis to explain the Operating range extension observed during Operation in Co-rotating Mode of a Twin-impeller Centrifugal Compressor. E3S Web of Conferences, 2021, 321, 02011.	0.5	1
8	Numerical Study on the Effect of an Off-Surface Micro-Rod Vortex Generator Placed Upstream NACA0012 Aerofoil. E3S Web of Conferences, 2021, 321, 01011.	0.5	1
9	Numerical Assesment of a Small-Scale and Very Low Tip Speed Ratio Wind Turbine. E3S Web of Conferences, 2021, 321, 01019.	0.5	0
10	Numerical Analysis of a Novel Twin-Impeller Centrifugal Compressor. Computation, 2021, 9, 143.	2.0	1
11	Cavitation control using passive flow control techniques. Physics of Fluids, 2021, 33, .	4.0	23
12	Development of Attached Cavitation at Very Low Reynolds Numbers from Partial to Super-Cavitation. Applied Sciences (Switzerland), 2020, 10, 7350.	2.5	2
13	EFFECT OF GAS CONTENT ON THE CAVITATING AND NON-CAVITATING PERFORMANCE OF AN AXIAL THREE-BLADED INDUCER. Multiphase Science and Technology, 2020, 32, 81-92.	0.5	3
14	Attached cavitation in laminar separations within a transition to unsteadiness. Physics of Fluids, 2019, 31, .	4.0	17
15	A Comparative Study of Mixed Resolvedâ€“Unresolved CFD-DEM and Unresolved CFD-DEM Methods for the Solution of Particle-Laden Liquid Flows. Archives of Computational Methods in Engineering, 2019, 26, 1239-1254.	10.2	18
16	Effects of axial rectangular groove on turbulent Taylor-Couette flow from analysis of experimental data. Experimental Thermal and Fluid Science, 2018, 97, 270-278.	2.7	12
17	Experimental investigation on the effect of load distribution on the performances of a counter-rotating axial-flow fan. Experimental Thermal and Fluid Science, 2018, 96, 101-110.	2.7	11
18	Experimental investigation of an actively controlled automotive cooling fan using steady air injection in the leakage gap. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 59-67.	1.4	9

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19	Investigation of Two Mechanisms Governing Cloud Cavitation Shedding: Experimental Study and Numerical Highlight. , 2016, , .		2
20	Experimental study of aerated cavitation in a horizontal venturi nozzle. Experimental Thermal and Fluid Science, 2016, 70, 85-95.	2.7	48
21	Towards Numerical Simulation of Snow Showers in Jet Engine Fuel Systems. Springer Water, 2016, , 613-624.	0.3	2
22	POD study of aerated cavitation in a venturi nozzle. Journal of Physics: Conference Series, 2015, 656, 012171.	0.4	7
23	Influence of Reynolds number and forcing type in a turbulent von KÃ¡rmÃ¡n flow. New Journal of Physics, 2014, 16, 063037.	2.9	6
24	Influence of Design Parameters on the Global Performances of Low-Speed Counter-Rotating Axial-Flow Fans. , 2014, , .		1
25	Cavitation regime detection through Proper Orthogonal Decomposition: Dynamics analysis of the sheet cavity on a grooved convergentâ€“divergent nozzle. International Journal of Heat and Fluid Flow, 2014, 47, 9-20.	2.4	59
26	Study of the Cavitating Instability on a Grooved Venturi Profile. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	31
27	Ã‰tude expÃ©rimentale de l'Ã©coulement et de l'interaction entre deux rotors contrarotatifs subsoniques. Houille Blanche, 2014, 100, 85-95.	0.3	0
28	Experimental study of hydraulic transport of large particles in horizontal pipes. Experimental Thermal and Fluid Science, 2013, 45, 187-197.	2.7	53
29	Evidence for Forcing-Dependent Steady States in a Turbulent Swirling Flow. Physical Review Letters, 2013, 111, 234502.	7.8	25
30	High accuracy volume flow rate measurement using vortex counting. Flow Measurement and Instrumentation, 2013, 33, 138-144.	2.0	8
31	Experimental Study of the Instationary Flow Between Two Ducted Counter-Rotating Rotors. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	21
32	Design and Experimental Validation of a Ducted Counter-Rotating Axial-Flow Fans System. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	1.5	36
33	Kinematic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>Tensors and Dynamo Mechanisms in a vonÂKÃ¡rmÃ¡n Swirling Flow. Physical Review Letters, 2012, 109, 024503.	7.8	19
34	Study of Passive Control Study of the Cavitation Instability on a Venturi Profile. , 2012, , .		0
35	Experimental study of blade thickness effects on the overall and local performances of a Controlled Vortex Designed axial-flow fan. Experimental Thermal and Fluid Science, 2011, 35, 684-693.	2.7	55
36	On the dynamics and breakup of a bubble rising in a turbulent flow. Physics of Fluids, 2011, 23, .	4.0	55

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37	Experimental Investigation on Ducted Counter-Rotating Axial Flow Fans. , 2011, , .		6
38	Experimental and Numerical Analysis of the Flow Inside a Configuration Including an Axial Pump and a Tubular Exchanger. , 2010, , .		0
39	Influence of global rotation and Reynolds number on the large-scale features of a turbulent Taylorâ€“Couette flow. Physics of Fluids, 2010, 22, .	4.0	48
40	Study of the Aerodynamics/Aeroacoustics of an Axial-Flow Fan: Experimental Validation of a LES/LPCE/Brinkman Penalization Method. , 2010, , .		1
41	Experimental Study of Blade Rigidity Effects on the Global and the Local Performances of a Thick Blades Axial-Flow Fan. , 2010, , .		2
42	The von KÃ¡rmÃ¡n Sodium experiment: Turbulent dynamical dynamos. Physics of Fluids, 2009, 21, .	4.0	89
43	Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium. Journal of Fluid Mechanics, 2009, 641, 217-226.	3.4	25
44	Large eddy simulations and stereoscopic particle image velocimetry measurements in a scraped heat exchanger crystallizer geometry. Chemical Engineering Science, 2009, 64, 2127-2135.	3.8	9
45	Experimental study of the von KÃ¡rmÃ¡n flow from Re = 102 to 106: spontaneous symmetry breaking and turbulent bifurcations. Springer Proceedings in Physics, 2009, , 59-62.	0.2	0
46	Scaling of torque in turbulent Taylor-Couette flow with background rotation. Springer Proceedings in Physics, 2009, , 629-632.	0.2	1
47	The VKS experiment: turbulent dynamical dynamos. Comptes Rendus Physique, 2008, 9, .	0.9	12
48	Chaotic Dynamos Generated by a Turbulent Flow of Liquid Sodium. Physical Review Letters, 2008, 101, 074502.	7.8	67
49	Supercritical transition to turbulence in an inertially driven von KÃ¡rmÃ¡n closed flow. Journal of Fluid Mechanics, 2008, 601, 339-364.	3.4	99
50	Magnetic field reversals in an experimental turbulent dynamo. Europhysics Letters, 2007, 77, 59001.	2.0	209
51	Generation of a Magnetic Field by Dynamo Action in a Turbulent Flow of Liquid Sodium. Physical Review Letters, 2007, 98, 044502.	7.8	364
52	Experimental studies of liquid-liquid dispersion in a turbulent shear flow. , 2007, , 331-333.		4
53	Ambivalent effects of added layers on steady kinematic dynamos in cylindrical geometry: application to the VKS experiment. European Journal of Mechanics, B/Fluids, 2006, 25, 894-908.	2.5	48
54	Transport of Magnetic Field by a Turbulent Flow of Liquid Sodium. Physical Review Letters, 2006, 97, 074501.	7.8	14

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55	Properties of Steady States in Turbulent Axisymmetric Flows. Physical Review Letters, 2006, 96, 124502.	7.8	56
56	Toward an experimental von KÃ¡rmÃ¡n dynamo: Numerical studies for an optimized design. Physics of Fluids, 2005, 17, 117104.	4.0	93
57	Multistability and Memory Effect in a Highly Turbulent Flow: Experimental Evidence for a Global Bifurcation. Physical Review Letters, 2004, 93, 164501.	7.8	146
58	Experimental Investigation of the Effect of Blade Solidity on Micro-Scale and Low Tip-Speed Ratio Wind Turbines. SSRN Electronic Journal, 0, , .	0.4	0