

Florent Ravelet

List of Publications by Year in descending order

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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	Generation of a Magnetic Field by Dynamo Action in a Turbulent Flow of Liquid Sodium. Physical Review Letters, 2007, 98, 044502.	7.8	364
2	Magnetic field reversals in an experimental turbulent dynamo. Europhysics Letters, 2007, 77, 59001.	2.0	209
3	Multistability and Memory Effect in a Highly Turbulent Flow: Experimental Evidence for a Global Bifurcation. Physical Review Letters, 2004, 93, 164501.	7.8	146
4	Supercritical transition to turbulence in an inertially driven von Kármán closed flow. Journal of Fluid Mechanics, 2008, 601, 339-364.	3.4	99
5	Toward an experimental von Kármán dynamo: Numerical studies for an optimized design. Physics of Fluids, 2005, 17, 117104.	4.0	93
6	The von Kármán Sodium experiment: Turbulent dynamical dynamos. Physics of Fluids, 2009, 21, .	4.0	89
7	Chaotic Dynamos Generated by a Turbulent Flow of Liquid Sodium. Physical Review Letters, 2008, 101, 074502.	7.8	67
8	Cavitation regime detection through Proper Orthogonal Decomposition: Dynamics analysis of the sheet cavity on a grooved convergent-divergent nozzle. International Journal of Heat and Fluid Flow, 2014, 47, 9-20.	2.4	59
9	Properties of Steady States in Turbulent Axisymmetric Flows. Physical Review Letters, 2006, 96, 124502.	7.8	56
10	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
11	On the dynamics and breakup of a bubble rising in a turbulent flow. Physics of Fluids, 2011, 23, .	4.0	55
12	Experimental study of hydraulic transport of large particles in horizontal pipes. Experimental Thermal and Fluid Science, 2013, 45, 187-197.	2.7	53
13	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
14	Influence of global rotation and Reynolds number on the large-scale features of a turbulent Taylor-Couette flow. Physics of Fluids, 2010, 22, .	4.0	48
15	Experimental study of aerated cavitation in a horizontal venturi nozzle. Experimental Thermal and Fluid Science, 2016, 70, 85-95.	2.7	48
16	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
17	Study of the Cavitating Instability on a Grooved Venturi Profile. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	31
18	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

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19	Evidence for Forcing-Dependent Steady States in a Turbulent Swirling Flow. <i>Physical Review Letters</i> , 2013, 111, 234502.	7.8	25
20	Cavitation control using passive flow control techniques. <i>Physics of Fluids</i> , 2021, 33, .	4.0	23
21	Experimental Study of the Instationary Flow Between Two Ducted Counter-Rotating Rotors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	1.1	21
22	Kinematic $\hat{\epsilon}$ Tensors and Dynamo Mechanisms in a von Kármán Swirling Flow. <i>Physical Review Letters</i> , 2012, 109, 024503.	7.8	19
23	A Comparative Study of Mixed Resolved “Unresolved CFD-DEM and Unresolved CFD-DEM Methods for the Solution of Particle-Laden Liquid Flows. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1239-1254.	10.2	18
24	Attached cavitation in laminar separations within a transition to unsteadiness. <i>Physics of Fluids</i> , 2019, 31, .	4.0	17
25	Transport of Magnetic Field by a Turbulent Flow of Liquid Sodium. <i>Physical Review Letters</i> , 2006, 97, 074501.	7.8	14
26	The VKS experiment: turbulent dynamical dynamos. <i>Comptes Rendus Physique</i> , 2008, 9, .	0.9	12
27	Effects of axial rectangular groove on turbulent Taylor-Couette flow from analysis of experimental data. <i>Experimental Thermal and Fluid Science</i> , 2018, 97, 270-278.	2.7	12
28	Innovative design method and experimental investigation of a small-scale and very low tip-speed ratio wind turbine. <i>Experimental Thermal and Fluid Science</i> , 2022, 130, 110504.	2.7	12
29	Experimental investigation on the effect of load distribution on the performances of a counter-rotating axial-flow fan. <i>Experimental Thermal and Fluid Science</i> , 2018, 96, 101-110.	2.7	11
30	Large eddy simulations and stereoscopic particle image velocimetry measurements in a scraped heat exchanger crystallizer geometry. <i>Chemical Engineering Science</i> , 2009, 64, 2127-2135.	3.8	9
31	Experimental investigation of an actively controlled automotive cooling fan using steady air injection in the leakage gap. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2017, 231, 59-67.	1.4	9
32	High accuracy volume flow rate measurement using vortex counting. <i>Flow Measurement and Instrumentation</i> , 2013, 33, 138-144.	2.0	8
33	POD study of aerated cavitation in a venturi nozzle. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012171.	0.4	7
34	Experimental Investigation on Ducted Counter-Rotating Axial Flow Fans. , 2011, , .		6
35	Influence of Reynolds number and forcing type in a turbulent von Kármán flow. <i>New Journal of Physics</i> , 2014, 16, 063037.	2.9	6
36	Experimental studies of liquid-liquid dispersion in a turbulent shear flow. , 2007, , 331-333.		4

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37	EFFECT OF GAS CONTENT ON THE CAVITATING AND NON-CAVITATING PERFORMANCE OF AN AXIAL THREE-BLADED INDUCER. <i>Multiphase Science and Technology</i> , 2020, 32, 81-92.	0.5	3
38	Investigation of Two Mechanisms Governing Cloud Cavitation Shedding: Experimental Study and Numerical Highlight. , 2016, , .		2
39	Development of Attached Cavitation at Very Low Reynolds Numbers from Partial to Super-Cavitation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7350.	2.5	2
40	Experimental study of a centrifugal compressor with two successive and counter-rotating impellers. <i>Journal of Physics: Conference Series</i> , 2021, 1909, 012023.	0.4	2
41	Improved Aerodynamics of a Hollow-Blade Axial Flow Fan by Controlling the Leakage Flow Rate by Air Injection at the Rotating Shroud. <i>Entropy</i> , 2021, 23, 877.	2.2	2
42	Towards Numerical Simulation of Snow Showers in Jet Engine Fuel Systems. <i>Springer Water</i> , 2016, , 613-624.	0.3	2
43	Experimental Study of Blade Rigidity Effects on the Global and the Local Performances of a Thick Blades Axial-Flow Fan. , 2010, , .		2
44	Study of the Aerodynamics/Aeroacoustics of an Axial-Flow Fan: Experimental Validation of a LES/LPCE/Brinkman Penalization Method. , 2010, , .		1
45	Influence of Design Parameters on the Global Performances of Low-Speed Counter-Rotating Axial-Flow Fans. , 2014, , .		1
46	Experimental Study of a Novel Centrifugal Compressor with Two Successive and Independent Rotors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, , .	1.1	1
47	Scaling of torque in turbulent Taylor-Couette flow with background rotation. <i>Springer Proceedings in Physics</i> , 2009, , 629-632.	0.2	1
48	CFD Analysis to explain the Operating range extension observed during Operation in Co-rotating Mode of a Twin-impeller Centrifugal Compressor. <i>E3S Web of Conferences</i> , 2021, 321, 02011.	0.5	1
49	Numerical Study on the Effect of an Off-Surface Micro-Rod Vortex Generator Placed Upstream NACA0012 Aerofoil. <i>E3S Web of Conferences</i> , 2021, 321, 01011.	0.5	1
50	Numerical Analysis of a Novel Twin-Impeller Centrifugal Compressor. <i>Computation</i> , 2021, 9, 143.	2.0	1
51	Experimental study of the von Kármán flow from $Re = 102$ to 106 : spontaneous symmetry breaking and turbulent bifurcations. <i>Springer Proceedings in Physics</i> , 2009, , 59-62.	0.2	0
52	Experimental and Numerical Analysis of the Flow Inside a Configuration Including an Axial Pump and a Tubular Exchanger. , 2010, , .		0
53	Effects of some settings of rotational-molding process on the aeromechanical performance of an axial fan.. <i>Journal of Physics: Conference Series</i> , 2021, 1909, 012024.	0.4	0
54	Editorial for Special Issue: New Advances of Cavitation Instabilities. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5313.	2.5	0

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55	Study of Passive Control Study of the Cavitation Instability on a Venturi Profile. , 2012, , .		0
56	Étude expérimentale de l'écoulement et de l'interaction entre deux rotors contrarotatifs subsoniques. Houille Blanche, 2014, 100, 85-95.	0.3	0
57	Numerical Assesment of a Small-Scale and Very Low Tip Speed Ratio Wind Turbine. E3S Web of Conferences, 2021, 321, 01019.	0.5	0
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