

Guy Dumas

List of Publications by Citations

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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.

45
papers

1,304
citations

16
h-index

35
g-index

49
ext. papers

1,626
ext. citations

3.8
avg. IF

5.15
L-index

#	Paper	IF	Citations
45	Parametric Study of an Oscillating Airfoil in a Power-Extraction Regime. <i>AIAA Journal</i> , 2008 , 46, 1318-1330	8.1	279
44	Prototype testing of a hydrokinetic turbine based on oscillating hydrofoils. <i>Renewable Energy</i> , 2011 , 36, 1710-1718	8.1	144
43	Computational Fluid Dynamics Analysis of a Hydrokinetic Turbine Based on Oscillating Hydrofoils. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	103
42	Optimal Tandem Configuration for Oscillating-Foils Hydrokinetic Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	75
41	Optimal Operating Parameters for an Oscillating Foil Turbine at Reynolds Number 500,000. <i>AIAA Journal</i> , 2014 , 52, 1885-1895	2.1	58
40	A finite element model of estuarian and river flows with moving boundaries. <i>Advances in Water Resources</i> , 1990 , 13, 158-168	4.7	58
39	Three-Dimensional Effects on an Oscillating-Foil Hydrokinetic Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	54
38	Computational aeroelastic simulations of self-sustained pitch oscillations of a NACA0012 at transitional Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2011 , 27, 1262-1277	3.1	51
37	Impact of channel blockage on the performance of axial and cross-flow hydrokinetic turbines. <i>Renewable Energy</i> , 2017 , 103, 239-254	8.1	47
36	Comparison of the wake recovery of the axial-flow and cross-flow turbine concepts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017 , 165, 137-152	3.7	46
35	Numerical optimization of a fully-passive flapping-airfoil turbine. <i>Journal of Fluids and Structures</i> , 2017 , 70, 102-130	3.1	42
34	Experimental investigation of the energy extraction by a fully-passive flapping-foil hydrokinetic turbine prototype. <i>Journal of Fluids and Structures</i> , 2018 , 82, 446-472	3.1	36
33	A Divergence-Free Spectral Expansions Method for Three-Dimensional Flows in Spherical-Gap Geometries. <i>Journal of Computational Physics</i> , 1994 , 111, 205-219	4.1	34
32	A parametric investigation of the propulsion of 2D chordwise-flexible flapping wings at low Reynolds number using numerical simulations. <i>Journal of Fluids and Structures</i> , 2016 , 63, 210-237	3.1	34
31	Parametric study of H-Darrieus vertical-axis turbines using CFD simulations. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 053301	2.5	33
30	Development of a Parallel Plate Flow Chamber for Studying Cell Behavior Under Pulsatile Flow. <i>ASAIO Journal</i> , 1995 , 41, 876-883	3.6	17
29	Effects of mass and chordwise flexibility on 2D self-propelled flapping wings. <i>Journal of Fluids and Structures</i> , 2016 , 64, 46-66	3.1	16

28	Investigation of the energy-extraction regime of a novel semi-passive flapping-foil turbine concept with a prescribed heave motion and a passive pitch motion. <i>Journal of Fluids and Structures</i> , 2019 , 84, 368-390	3.1	15
27	A parametric study and optimization of the fully-passive flapping-foil turbine at high Reynolds number. <i>Renewable Energy</i> , 2020 , 146, 1958-1975	8.1	14
26	Impact of Blockage on the Hydrodynamic Performance of Oscillating-Foils Hydrokinetic Turbines. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016 , 138,	2.1	14
25	Experimental and Numerical Investigations on the Origins of Rotating Stall in a Propeller Turbine Runner Operating in No-Load Conditions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	12
24	Investigation of the viscous reconnection phenomenon of two vortex tubes through spectral simulations. <i>Physics of Fluids</i> , 2016 , 28, 095103	4.4	12
23	Simulations of Flow Ingestion and Related Structures in a Turbine Disk Cavity 2010 ,		10
22	Improving the efficiency and the wake recovery rate of vertical-axis turbines using detached end-plates. <i>Renewable Energy</i> , 2020 , 150, 31-45	8.1	10
21	Gurney flap scaling for optimum lift-to-drag ratio. <i>AIAA Journal</i> , 1997 , 35, 1888-1890	2.1	9
20	The thermal diode and insulating potentials of a vertical stack of parallelogrammic air-filled enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 2060-2071	4.9	8
19	Free-pitching flapping-foil turbines with imposed sinusoidal heave. <i>Journal of Fluids and Structures</i> , 2019 , 90, 110-138	3.1	8
18	Two-way interaction between river and deployed cross-flow hydrokinetic turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2020 , 12, 034501	2.5	6
17	Improved Numerical Simulations of Self-Sustained Oscillations of a NACA0012 with Transition Modeling 2011 ,		6
16	Testing and Analysis of an Oscillating Hydrofoils Turbine Concept 2010 ,		6
15	Secondary flow and roll cells interaction in high-aspect-ratio rotating turbulent duct flows. <i>International Journal of Computational Fluid Dynamics</i> , 2008 , 22, 19-28	1.2	6
14	Boundary layer tripping on moderate Reynolds number oscillating foils. <i>Journal of Fluids and Structures</i> , 2019 , 86, 1-12	3.1	5
13	Assessing the Ability of the DDES Turbulence Modeling Approach to Simulate the Wake of a Bluff Body. <i>Aerospace</i> , 2017 , 4, 41	2.5	5
12	Hydrokinetic turbine array modeling for performance analysis and deployment optimization. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2018 , 42, 370-381	1.1	4
11	Vortex Dynamics in the Wake of Three Generic Types of Freestream Turbines. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	4

10	Increasing the efficiency of vertical-axis turbines through improved blade support structures. <i>Renewable Energy</i> , 2021 , 169, 1386-1401	8.1	4
9	Lift enhancement and drag reduction of lifting blades through the use of end-plates and detached end-plates. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 184, 391-404	3.7	4
8	Passive Tracer Validity for Cooling Effectiveness Through Flow Computation in a Turbine Rim Seal Environment 2011 ,		3
7	Parametric Study of an Oscillating Airfoil in Power Extraction Regime 2006 ,		2
6	Hydrokinetic turbine array analysis and optimization integrating blockage effects and turbine-wake interactions. <i>Renewable Energy</i> , 2022 , 181, 851-869	8.1	2
5	Reprint of: Boundary layer tripping on moderate Reynolds number oscillating foils. <i>Journal of Fluids and Structures</i> , 2019 , 89, 267-278	3.1	1
4	A spectral/B-spline method for the Navier-Stokes equations in unbounded domains. <i>Journal of Computational Physics</i> , 2003 , 185, 532-548	4.1	1
3	A numerical study on the interaction between two cross-flow turbines in tandem configuration to support a simplified turbine model approach. <i>Journal of Renewable and Sustainable Energy</i> , 2020 , 12, 054502	2.5	0
2	Impact of some design considerations on the wake recovery of vertical-axis turbines. <i>Renewable Energy</i> , 2021 , 180, 1419-1438	8.1	0
1	Assessing the performance and the wake recovery rate of flapping-foil turbines with end-plates and detached end-plates. <i>Renewable Energy</i> , 2021 , 179, 206-222	8.1	