

Rodolfo Bontempo

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Performance analysis of open and ducted wind turbines. <i>Applied Energy</i> , 2014, 136, 405-416.	10.1	79
2	Effects of the duct thrust on the performance of ducted wind turbines. <i>Energy</i> , 2016, 99, 274-287.	8.8	73
3	Solution of the flow over a non-uniform heavily loaded ducted actuator disk. <i>Journal of Fluid Mechanics</i> , 2013, 728, 163-195.	3.4	45
4	Performance analysis of ducted marine propellers. Part I “Decelerating duct. <i>Applied Ocean Research</i> , 2016, 58, 322-330.	4.1	41
5	Diffuser augmented wind turbines: Review and assessment of theoretical models. <i>Applied Energy</i> , 2020, 280, 115867.	10.1	40
6	On the potential of the ideal diffuser augmented wind turbine: an investigation by means of a momentum theory approach and of a free-wake ring-vortex actuator disk model. <i>Energy Conversion and Management</i> , 2020, 213, 112794.	9.2	32
7	Analysis and Evaluation of the Momentum Theory Errors as Applied to Propellers. <i>AIAA Journal</i> , 2016, 54, 3840-3848.	2.6	30
8	Ducted Propeller Flow Analysis by Means of a Generalized Actuator Disk Model. <i>Energy Procedia</i> , 2014, 45, 1107-1115.	1.8	29
9	Work and efficiency optimization of advanced gas turbine cycles. <i>Energy Conversion and Management</i> , 2019, 195, 1255-1279.	9.2	28
10	Steady and unsteady experimental analysis of a turbocharger for automotive applications. <i>Energy Conversion and Management</i> , 2015, 99, 72-80.	9.2	27
11	Effects of Duct Cross Section Camber and Thickness on the Performance of Ducted Propulsion Systems for Aeronautical Applications. <i>International Journal of Aerospace Engineering</i> , 2016, 2016, 1-9.	0.9	24
12	A design of experiment approach as applied to the analysis of diffuser-augmented wind turbines. <i>Energy Conversion and Management</i> , 2021, 235, 113924.	9.2	24
13	A comparison of nonlinear actuator disk methods for the performance analysis of ducted marine propellers. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2015, 229, 539-548.	1.4	22
14	The axial momentum theory as applied to wind turbines: some exact solutions of the flow through a rotor with radially variable load. <i>Energy Conversion and Management</i> , 2017, 143, 33-48.	9.2	22
15	Performance analysis of ducted marine propellers. Part II “Accelerating duct. <i>Applied Ocean Research</i> , 2018, 75, 153-164.	4.1	22
16	Development and validation of a 1D model for turbocharger compressors under deep-surge operation. <i>Energy</i> , 2018, 142, 507-517.	8.8	21
17	Highly accurate error estimate of the momentum theory as applied to wind turbines. <i>Wind Energy</i> , 2017, 20, 1405-1419.	4.2	20
18	A ring-vortex actuator disk method for wind turbines including hub effects. <i>Energy Conversion and Management</i> , 2019, 195, 672-681.	9.2	19

#	ARTICLE	IF	CITATIONS
19	A statistical approach to the analysis of the surge phenomenon. Energy, 2017, 124, 502-509.	8.8	18
20	A nonlinear and semi-analytical actuator disk method accounting for general hub shapes. Part 1. Open rotor. Journal of Fluid Mechanics, 2016, 792, 910-935.	3.4	16
21	Effects of the Approximations Embodied in the Momentum Theory as Applied to the NREL PHASE VI Wind Turbine. International Journal of Turbomachinery, Propulsion and Power, 2017, 2, 9.	1.1	16
22	Actuator disc methods for open propellers: assessments of numerical methods. Engineering Applications of Computational Fluid Mechanics, 2017, 11, 42-53.	3.1	13
23	Experimental investigation on the effect of the duct geometrical parameters on the performance of a ducted wind turbine. Journal of Physics: Conference Series, 2018, 1037, 022034.	0.4	13
24	A ring-vortex free-wake model for uniformly loaded propellers. Part II - Solution procedure and analysis of the results. Energy Procedia, 2018, 148, 368-375.	1.8	12
25	A ring-vortex free-wake model for uniformly loaded propellers. Part I-Model description.. Energy Procedia, 2018, 148, 360-367.	1.8	11
26	Verification of the Axial Momentum Theory for Propellers with a Uniform Load Distribution. International Journal of Turbomachinery, Propulsion and Power, 2019, 4, 8.	1.1	11
27	Highly Flexible Hot Gas Generation System for Turbocharger Testing. Energy Procedia, 2014, 45, 1116-1125.	1.8	5
28	The Joukowski rotor for diffuser augmented wind turbines: design and analysis. Energy Conversion and Management, 2022, 252, 114952.	9.2	5
29	Three-Dimensional/One-Dimensional Combined Simulation of Deep Surge Loop in a Turbocharger Compressor With Vaned Diffuser. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
30	Ring-Vortex Panel Method for the Uniformly Loaded Propeller with Axisymmetric Hub. AIAA Journal, 2020, 58, 496-500.	2.6	2
31	Efficiency optimisation of advanced gas turbine recuperative-cycles. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 817-835.	1.4	1
32	Optimal Distribution of the Disk Load: Validity of the Betz-Joukowski Limit. AIAA Journal, 0, , 1-6.	2.6	1