

Rodolfo Bontempo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Joukowski rotor for diffuser augmented wind turbines: design and analysis. <i>Energy Conversion and Management</i> , 2022, 252, 114952.	9.2	5
2	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
3	Ring-Vortex Panel Method for the Uniformly Loaded Propeller with Axisymmetric Hub. <i>AIAA Journal</i> , 2020, 58, 496-500.	2.6	2
4	Efficiency optimisation of advanced gas turbine recuperative-cycles. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2020, 234, 817-835.	1.4	1
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	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
8	Work and efficiency optimization of advanced gas turbine cycles. <i>Energy Conversion and Management</i> , 2019, 195, 1255-1279.	9.2	28
9	Verification of the Axial Momentum Theory for Propellers with a Uniform Load Distribution. <i>International Journal of Turbomachinery, Propulsion and Power</i> , 2019, 4, 8.	1.1	11
10	Three-Dimensional/One-Dimensional Combined Simulation of Deep Surge Loop in a Turbocharger Compressor With Vaned Diffuser. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	4
11	Performance analysis of ducted marine propellers. Part II “Accelerating duct. <i>Applied Ocean Research</i> , 2018, 75, 153-164.	4.1	22
12	Development and validation of a 1D model for turbocharger compressors under deep-surge operation. <i>Energy</i> , 2018, 142, 507-517.	8.8	21
13	A ring-vortex free-wake model for uniformly loaded propellers. Part II - Solution procedure and analysis of the results. <i>Energy Procedia</i> , 2018, 148, 368-375.	1.8	12
14	A ring-vortex free-wake model for uniformly loaded propellers. Part I-Model description.. <i>Energy Procedia</i> , 2018, 148, 360-367.	1.8	11
15	Experimental investigation on the effect of the duct geometrical parameters on the performance of a ducted wind turbine. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 022034.	0.4	13
16	Highly accurate error estimate of the momentum theory as applied to wind turbines. <i>Wind Energy</i> , 2017, 20, 1405-1419.	4.2	20
17	Actuator disc methods for open propellers: assessments of numerical methods. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2017, 11, 42-53.	3.1	13
18	A statistical approach to the analysis of the surge phenomenon. <i>Energy</i> , 2017, 124, 502-509.	8.8	18

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19	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
20	Effects of the Approximations Embodied in the Momentum Theory as Applied to the NREL PHASE VI Wind Turbine. <i>International Journal of Turbomachinery, Propulsion and Power</i> , 2017, 2, 9.	1.1	16
21	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
22	A nonlinear and semi-analytical actuator disk method accounting for general hub shapes. Part 1. Open rotor. <i>Journal of Fluid Mechanics</i> , 2016, 792, 910-935.	3.4	16
23	Effects of the duct thrust on the performance of ducted wind turbines. <i>Energy</i> , 2016, 99, 274-287.	8.8	73
24	Analysis and Evaluation of the Momentum Theory Errors as Applied to Propellers. <i>AIAA Journal</i> , 2016, 54, 3840-3848.	2.6	30
25	Performance analysis of ducted marine propellers. Part I – Decelerating duct. <i>Applied Ocean Research</i> , 2016, 58, 322-330.	4.1	41
26	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
27	Steady and unsteady experimental analysis of a turbocharger for automotive applications. <i>Energy Conversion and Management</i> , 2015, 99, 72-80.	9.2	27
28	Highly Flexible Hot Gas Generation System for Turbocharger Testing. <i>Energy Procedia</i> , 2014, 45, 1116-1125.	1.8	5
29	Ducted Propeller Flow Analysis by Means of a Generalized Actuator Disk Model. <i>Energy Procedia</i> , 2014, 45, 1107-1115.	1.8	29
30	Performance analysis of open and ducted wind turbines. <i>Applied Energy</i> , 2014, 136, 405-416.	10.1	79
31	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
32	Optimal Distribution of the Disk Load: Validity of the Betz–Joukowski Limit. <i>AIAA Journal</i> , 0, , 1-6.	2.6	1