Pietro Catalano

List of Publications by Year
in descending order

29 papers	758 citations	1307594 7 h-index	1474206 9 g-index
29 all docs	29 docs citations	29 times ranked	496 citing authors

#	Article	IF	Citations
1	Numerical simulation of the flow around a circular cylinder at high Reynolds numbers. International Journal of Heat and Fluid Flow, 2003, 24, 463-469.	2.4	253
2	An evaluation of RANS turbulence modelling for aerodynamic applications. Aerospace Science and Technology, 2003, 7, 493-509.	4.8	137
3	RANS analysis of the low-Reynolds number flow around the SD7003 airfoil. Aerospace Science and Technology, 2011, 15, 615-626.	4.8	61
4	Turbulence Modeling for Low-Reynolds-Number Flows. AIAA Journal, 2010, 48, 1673-1685.	2.6	56
5	U-ZEN: A Computational Tool Solving U-Rans Equations for Industrial Unsteady Applications. , 2004, , .		38
6	Performance Assessment of a Transonic Wingâ€“Body Configuration with Riblets Installed. Journal of Aircraft, 2016, 53, 129-140.	2.4	32
7	On the implementation of a turbulence model for low Reynolds number flows. Computers and Fluids, 2015, 109, 67-71.	2.5	25
8	Improved CFD Predictions for High Lift Flows in the European Project EUROLIFT II. , 2007, , .		21
9	Performance Improvements of a Regional Aircraft by Riblets and Natural Laminar Flow. Journal of Aircraft, 2020, 57, 29-40.	2.4	21
10	U-RANS Modelling of Turbulent Flows Controlled by Synthetic Jets. , 2005, , .		20
11	Influence of Free-Stream Turbulence on Simulations of Laminar Separation Bubbles. , 2009, , .		14
12	Effects of High Voltage Pulsed DBD on the Aerodynamic Performances in Subsonic and Transonic Conditions. , 2013, , .		13
13	RANS Modeling and Simulations of Synthetic Jets. , 2004, , .		11
14	Numerical Analysis of the Flow Around the SD 7003 Airfoil. , 2010, , .		8
15	A conservative sliding mesh coupling procedure for U-RANS flow simulations. Aircraft Engineering and Aerospace Technology, 2016, 88, 151-158.	0.8	7
16	Effect of body shape on riblets performance. Physical Review Fluids, 2020, 5, .	2.5	6
17	CIRA contribution to the first AIAA Ice Prediction Workshop. , 2022, , .		6
18	Ground-to-Flight Extrapolation of the Aerodynamic Coefficients of the VEGA Launcher. , 2006, , .		5

#	Article	IF	Citations
19	Validation of Intermittency Model for Transition Prediction in a RANS Flow Solver. , 2018, , .		5
20	Effects of riblets on the performances of a regional aircraft configuration in NLF conditions. , 2018, , .		5
21	Model for Enhancing Turbulent Production in Laminar Separation Bubbles. AIAA Journal, 0, , 1-15.	2.6	5
22	A Numerical Method to Detect Laminar Separation Bubbles over Airfoils. , 2013, , .		3
23	USV3 Aerodynamics Assessment: a Step Forward in the Ongoing Design Phase. , 2014, , .		2
24	Sensitivity study with global and high resolution meteorological model. , 2007, , 197-206.		2
25	RANS Simulations of the Flow Past a Launcher Configuration in Motor-On Conditions. , 2005, , .		1
26	Numerical Investigation of the Flow around the Ahmed Model. , 2007, , .		1
27	Optimization by CFD analyses of riblet distribution over a transonic civil aircraft configuration. , 2014, , .		0
28	Analysis of riblets performance in pressure gradient flow by Large Eddy Simulation. , 2020, , .		0
29	Large Eddy Simulations and RANS models for airfoils at low Reynolds number.. , 2020, , .		0