

Marcello A F Medeiros

List of Publications by Year in descending order

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70
papers

575
citations

687220

13
h-index

713332

21
g-index

71
all docs

71
docs citations

71
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights on slat noise based on a revisit of previous experimental-numerical studies. , 2022, , .		0
2	SPOD analysis of noise-generating Rossiter modes in a slat with and without a bulb seal. Journal of Fluid Mechanics, 2021, 915, .	1.4	3
3	The effect of incoming boundary layer thickness and Mach number on linear and nonlinear Rossiter modes in open cavity flows. Theoretical and Computational Fluid Dynamics, 2021, 35, 495-513.	0.9	7
4	Spatial instability of boundary layers over small cavities and comparison to global modes. , 2021, , .		0
5	DNS of a Tollmien-Schlichting Wave Interacting with a Roughness Modeled via Body-fitted and Approximation Methods. , 2021, , .		1
6	Interaction between Rossiter and Görtler modes in the compressible flow in an open cavity. , 2020, , .		1
7	Improvements in closed-section wind-tunnel beamforming experiments of acoustic sources distributed along a line. Applied Acoustics, 2019, 156, 336-350.	1.7	6
8	Dynamics of the large-scale structures and associated noise emission in airfoil slats. Journal of Fluid Mechanics, 2019, 875, 1004-1034.	1.4	17
9	On closed-section wind-tunnel aeroacoustic experiments with a two-dimensional lifting body. Applied Acoustics, 2019, 148, 409-422.	1.7	7
10	An experimental and numeric investigation towards a reliable acoustic pressure level estimate using phased-array techniques. , 2019, , .		1
11	Recirculating Coherent Structures inside the Cove of a Bulb Sealed Slat. , 2019, , .		0
12	Effect of Bubble Seal on Slat Noise. AIAA Journal, 2019, 57, 1608-1623.	1.5	10
13	Slat Noise from an MD30P30N Airfoil at Extreme Angles of Attack. AIAA Journal, 2018, 56, 964-978.	1.5	26
14	The Influence of the Boundary Layer Thickness on the Stability of the Rossiter Modes of a Compressible Rectangular Cavity. , 2018, , .		4
15	Low Acoustic Noise and Turbulence (LANT) wind-tunnel at USP-EESC. , 2018, , .		2
16	Design of microphone phased arrays for acoustic beamforming. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	14
17	Experimental investigation on the effect of slat geometrical configurations on aerodynamic noise. Journal of Sound and Vibration, 2017, 394, 256-279.	2.1	49
18	Nonlinear regimes of spanwise modulated waves in plane Poiseuille flow. Journal of Fluid Mechanics, 2017, 818, 492-527.	1.4	0

#	ARTICLE	IF	CITATIONS
19	Interaction of instability waves and a three-dimensional roughness element in a boundary layer. <i>Journal of Fluid Mechanics</i> , 2017, 824, 624-660.	1.4	8
20	Design of a Low-Speed, Closed Test-Section Wind-Tunnel for Aeroacoustic and Low-Turbulence Experiments. , 2017, , .		1
21	Aeroacoustic Effect of a Seal Position Attached in Slat Cove Surface. , 2017, , .		0
22	Slat noise: Experimental and numerical efforts at USP-São Carlos. , 2017, , .		0
23	Direct numerical simulation of a wavepacket in a boundary layer at Mach 0.9. , 2016, , .		7
24	Slat Noise: Aeroacoustic Beamforming in Closed-Section Wind Tunnel with Numerical Comparison. <i>AIAA Journal</i> , 2016, 54, 2100-2115.	1.5	61
25	Hydrodynamic Instability in the Generation of Slat Noise. <i>Procedia IUTAM</i> , 2015, 14, 344-353.	1.2	5
26	Wavepackets in Boundary Layers Close to Transonic Speeds. <i>Procedia IUTAM</i> , 2015, 14, 374-380.	1.2	5
27	Nonlinear Spanwise Modulated Waves in Channel Flow. <i>Procedia IUTAM</i> , 2015, 14, 355-363.	1.2	0
28	Effect of an excrescence in the slat cove: Flow-field, acoustic radiation and coherent structures. <i>Aerospace Science and Technology</i> , 2015, 44, 108-115.	2.5	20
29	Vortex Generation and Aeroacoustics in Asymmetric Wakes. <i>Procedia IUTAM</i> , 2015, 14, 590-594.	1.2	0
30	Compressible modes in a square lid-driven cavity. <i>Aerospace Science and Technology</i> , 2015, 44, 125-134.	2.5	18
31	Experimental study of the effect of a small 2D excrescence placed on the slat cove surface of an airfoil on its acoustic noise. , 2015, , .		9
32	Numerical Simulation of a Synthetic Jet with OpenFOAM. <i>Fluid Mechanics and Its Applications</i> , 2015, , 197-202.	0.1	1
33	Proper Orthogonal Decomposition Analysis of Noise Generation Mechanisms in the Slat Cove. <i>Fluid Mechanics and Its Applications</i> , 2015, , 237-242.	0.1	0
34	The Update of an Aerodynamic Wind-Tunnel for Aeroacoustics Testing. <i>Journal of Aerospace Technology and Management</i> , 2014, 6, 111-118.	0.3	19
35	Verification and accuracy comparison of commercial CFD codes using hydrodynamic instability. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2014, 36, 59-68.	0.8	0
36	Sparse Techniques in Global Flow Instability with Application to Compressible Leading-Edge Flow. <i>AIAA Journal</i> , 2013, 51, 2295-2303.	1.5	25

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37	On the controversy regarding the effect of flow shear on the Strouhal number of cylinder vortex shedding. Aerospace Science and Technology, 2013, 29, 313-320.	2.5	9
38	A Study of the Sources of Slat Noise using Proper Orthogonal Decomposition. , 2013, , .		8
39	Effect of Mach number on linear stability of lid-driven cavity flows. , 2013, , .		0
40	On Detrimental Effects of Excrescences on the Slat Noise. , 2012, , .		6
41	Wavepackets in a Compressible Subsonic Adverse Pressure Gradient Boundary Layer. , 2012, , .		1
42	Non-conservative implicit large-eddy simulation method for predicting the noise radiated by subsonic jets. , 2012, , .		1
43	On the Small Effect of Boundary Layer Thicknesses on Slat Noise. , 2011, , .		11
44	Linear instability of orthogonal compressible leading-edge boundary layer flow. , 2011, , .		5
45	Verification of a mixed high-order accurate DNS code for laminar turbulent transition by the method of manufactured solutions. International Journal for Numerical Methods in Fluids, 2010, 64, 336-354.	0.9	17
46	Comparative Analysis of Turbulence Models for Slat Noise Source Calculations Employing Unstructured Meshes. , 2010, , .		5
47	The effect of a single three-dimensional roughness element on the boundary layer transition. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 545-548.	0.1	0
48	Numerical investigation of the three-dimensional secondary instabilities in the time-developing compressible mixing layer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2009, 31, .	0.8	9
49	Methods for Preliminary Airfoil Optimization. , 2009, , .		3
50	Natural Transition in Plane Poiseuille Flow. Springer Proceedings in Physics, 2009, , 897-898.	0.1	2
51	Numerical Simulation of a Strongly Spanwise Modulated Wavetrain in a Compressible Mixing Layer. , 2008, , .		2
52	Experimental study of a Tollmien-Schlichting wave interacting with a shallow 3D roughness element. Journal of Turbulence, 2008, 9, N7.	0.5	8
53	Optimization of the Flow in the Catalytic Converter of Internal Combustion Engines by Means of Screens. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	1
54	NONLINEARWAVEPACKETS IN BOUNDARY LAYERS. , 2006, , 317-322.		2

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55	The advantages of using high-order finite differences schemes in laminar-turbulent transition studies. International Journal for Numerical Methods in Fluids, 2005, 48, 565-582.	0.9	30
56	Seeding of Görtler vortices through a suction and blowing strip. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2004, 26, 269.	0.8	7
57	Optimization of the Flow in Catalytic Converters of Internal Combustion Engines by Means of Screens. , 2004, , .		1
58	The nonlinear evolution of a wavetrain emanating from a point source in a boundary layer. Journal of Fluid Mechanics, 2004, 508, 287-317.	1.4	11
59	A Model of the Nonlinear Evolution of a Wave Emanating from a Point Source. , 2002, , .		0
60	The influence of streamwise modulation on the evolution of three-dimensional wavetrains. , 2001, , .		0
61	An Experimental and Numerical Study from Pulsating Flow in Intake Manifold. , 2000, , .		3
62	Nonlinear Three Dimensional Wavetrains of Small Amplitude in Boundary Layers: Experiments, Theory and Computations. , 2000, , 287-292.		0
63	The influence of phase on the nonlinear evolution of wavepackets in boundary layers. Journal of Fluid Mechanics, 1999, 397, 259-283.	1.4	31
64	The production of subharmonic waves in the nonlinear evolution of wavepackets in boundary layers. Journal of Fluid Mechanics, 1999, 399, 301-318.	1.4	46
65	Nonlinear evolution of low amplitude spanwise modulated wavetrains in boundary layers. , 1999, , .		2
66	The Nonlinear Behaviour of Modulated Tollmien-Schlichting Waves. Fluid Mechanics and Its Applications, 1996, , 197-206.	0.1	5
67	The transfer of heat in turbulent boundary layers with injection or suction: universal laws and Stanton number equations. International Journal of Heat and Mass Transfer, 1992, 35, 991-995.	2.5	14
68	Direct Numerical Simulation of a Compressible Flow and Matrix-Free Analysis of its Instabilities over an Open Cavity. Journal of Aerospace Technology and Management, 0, 10, .	0.3	7
69	The low acoustic noise and turbulence wind tunnel of the University of Sao Paulo. Aeronautical Journal, 0, , 1-33.	1.1	0
70	Linear Stability Theory applied in a cross-stream profile of a shear layer of leading edge slat cove. , 0, , .		0