

Marcello A F Medeiros

List of Publications by Year in descending order

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71
docs citations

71
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	Slat Noise: Aeroacoustic Beamforming in Closed-Section Wind Tunnel with Numerical Comparison. AIAA Journal, 2016, 54, 2100-2115.	1.5	61
2	Experimental investigation on the effect of slat geometrical configurations on aerodynamic noise. Journal of Sound and Vibration, 2017, 394, 256-279.	2.1	49
3	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
4	The influence of phase on the nonlinear evolution of wavepackets in boundary layers. Journal of Fluid Mechanics, 1999, 397, 259-283.	1.4	31
5	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
6	Slat Noise from an MD30P30N Airfoil at Extreme Angles of Attack. AIAA Journal, 2018, 56, 964-978.	1.5	26
7	Sparse Techniques in Global Flow Instability with Application to Compressible Leading-Edge Flow. AIAA Journal, 2013, 51, 2295-2303.	1.5	25
8	Effect of an excrescence in the slat cove: Flow-field, acoustic radiation and coherent structures. Aerospace Science and Technology, 2015, 44, 108-115.	2.5	20
9	The Update of an Aerodynamic Wind-Tunnel for Aeroacoustics Testing. Journal of Aerospace Technology and Management, 2014, 6, 111-118.	0.3	19
10	Compressible modes in a square lid-driven cavity. Aerospace Science and Technology, 2015, 44, 125-134.	2.5	18
11	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
12	Dynamics of the large-scale structures and associated noise emission in airfoil slats. Journal of Fluid Mechanics, 2019, 875, 1004-1034.	1.4	17
13	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
14	Design of microphone phased arrays for acoustic beamforming. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	14
15	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
16	On the Small Effect of Boundary Layer Thicknesses on Slat Noise. , 2011, , .		11
17	Effect of Bubble Seal on Slat Noise. AIAA Journal, 2019, 57, 1608-1623.	1.5	10
18	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

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19	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
20	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
21	Experimental study of a Tollmien-Schlichting wave interacting with a shallow 3D roughness element. Journal of Turbulence, 2008, 9, N7.	0.5	8
22	A Study of the Sources of Slat Noise using Proper Orthogonal Decomposition. , 2013, , .		8
23	Interaction of instability waves and a three-dimensional roughness element in a boundary layer. Journal of Fluid Mechanics, 2017, 824, 624-660.	1.4	8
24	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
25	Direct numerical simulation of a wavepacket in a boundary layer at Mach 0.9. , 2016, , .		7
26	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
27	On closed-section wind-tunnel aeroacoustic experiments with a two-dimensional lifting body. Applied Acoustics, 2019, 148, 409-422.	1.7	7
28	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
29	On Detrimental Effects of Excrescences on the Slat Noise. , 2012, , .		6
30	Improvements in closed-section wind-tunnel beamforming experiments of acoustic sources distributed along a line. Applied Acoustics, 2019, 156, 336-350.	1.7	6
31	Comparative Analysis of Turbulence Models for Slat Noise Source Calculations Employing Unstructured Meshes. , 2010, , .		5
32	Linear instability of orthogonal compressible leading-edge boundary layer flow. , 2011, , .		5
33	Hydrodynamic Instability in the Generation of Slat Noise. Procedia IUTAM, 2015, 14, 344-353.	1.2	5
34	Wavepackets in Boundary Layers Close to Transonic Speeds. Procedia IUTAM, 2015, 14, 374-380.	1.2	5
35	The Nonlinear Behaviour of Modulated Tollmien-Schlichting Waves. Fluid Mechanics and Its Applications, 1996, , 197-206.	0.1	5
36	The Influence of the Boundary Layer Thickness on the Stability of the Rossiter Modes of a Compressible Rectangular Cavity. , 2018, , .		4

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37	An Experimental and Numerical Study from Pulsating Flow in Intake Manifold. , 2000, , .		3
38	Methods for Preliminary Airfoil Optimization. , 2009, , .		3
39	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
40	Numerical Simulation of a Strongly Spanwise Modulated Wavetrain in a Compressible Mixing Layer. , 2008, , .		2
41	Low Acoustic Noise and Turbulence (LANT) wind-tunnel at USP-EESC. , 2018, , .		2
42	NONLINEARWAVEPACKETS IN BOUNDARY LAYERS. , 2006, , 317-322.		2
43	Natural Transition in Plane Poiseuille Flow. Springer Proceedings in Physics, 2009, , 897-898.	0.1	2
44	Nonlinear evolution of low amplitude spanwise modulated wavetrains in boundary layers. , 1999, , .		2
45	Optimization of the Flow in Catalytic Converters of Internal Combustion Engines by Means of Screens. , 2004, , .		1
46	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
47	Wavepackets in a Compressible Subsonic Adverse Pressure Gradient Boundary Layer. , 2012, , .		1
48	Non-conservative implicit large-eddy simulation method for predicting the noise radiated by subsonic jets. , 2012, , .		1
49	An experimental and numeric investigation towards a reliable acoustic pressure level estimate using phased-array techniques. , 2019, , .		1
50	Interaction between Rossiter and Görtler modes in the compressible flow in an open cavity. , 2020, , .		1
51	DNS of a Tollmien-Schlichting Wave Interacting with a Roughness Modeled via Body-fitted and Approximation Methods. , 2021, , .		1
52	Design of a Low-Speed, Closed Test-Section Wind-Tunnel for Aeroacoustic and Low-Turbulence Experiments. , 2017, , .		1
53	Numerical Simulation of a Synthetic Jet with OpenFOAM. Fluid Mechanics and Its Applications, 2015, , 197-202.	0.1	1
54	The influence of streamwise modulation on the evolution of three-dimensional wavetrains. , 2001, , .		0

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55	A Model of the Nonlinear Evolution of a Wave Emanating from a Point Source. , 2002, , .		0
56	Effect of Mach number on linear stability of lid-driven cavity flows. , 2013, , .		0
57	Verification and accuracy comparison of commercial CFD codes using hydrodynamic instability. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 59-68.	0.8	0
58	Nonlinear Spanwise Modulated Waves in Channel Flow. Procedia IUTAM, 2015, 14, 355-363.	1.2	0
59	Vortex Generation and Aeroacoustics in Asymmetric Wakes. Procedia IUTAM, 2015, 14, 590-594.	1.2	0
60	Nonlinear regimes of spanwise modulated waves in plane Poiseuille flow. Journal of Fluid Mechanics, 2017, 818, 492-527.	1.4	0
61	Recirculating Coherent Structures inside the Cove of a Bulb Sealed Slat. , 2019, , .		0
62	Spatial instability of boundary layers over small cavities and comparison to global modes. , 2021, , .		0
63	The low acoustic noise and turbulence wind tunnel of the University of Sao Paulo. Aeronautical Journal, 0, , 1-33.	1.1	0
64	Nonlinear Three Dimensional Wavetrains of Small Amplitude in Boundary Layers: Experiments, Theory and Computations. , 2000, , 287-292.		0
65	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
66	Proper Orthogonal Decomposition Analysis of Noise Generation Mechanisms in the Slat Cove. Fluid Mechanics and Its Applications, 2015, , 237-242.	0.1	0
67	Aeroacoustic Effect of a Seal Position Attached in Slat Cove Surface. , 2017, , .		0
68	Slat noise: Experimental and numerical efforts at USP-São Carlos. , 2017, , .		0
69	Linear Stability Theory applied in a cross-stream profile of a shear layer of leading edge slat cove. , 0, , .		0
70	New insights on slat noise based on a revisit of previous experimental-numerical studies. , 2022, , .		0