

Daniel Rodriguez

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

818
citations

15
h-index

27
g-index

59
ext. papers

1,058
ext. citations

3.4
avg, IF

4.42
L-index

#	Paper	IF	Citations
47	Efficient computation of global resolvent modes. <i>Journal of Fluid Mechanics</i> , 2021 , 919,	3.7	3
46	Self-excited primary and secondary instability of laminar separation bubbles. <i>Journal of Fluid Mechanics</i> , 2021 , 906,	3.7	7
45	Nonlinear instability of interfacial waves in stratified laminar channel flow. <i>International Journal of Multiphase Flow</i> , 2020 , 133, 103463	3.6	2
44	A geometrical criterion for absolute instability in separated boundary layers. <i>Physics of Fluids</i> , 2019 , 31, 014103	4.4	10
43	Using enhanced number and brightness to measure protein oligomerization dynamics in live cells. <i>Nature Protocols</i> , 2019 , 14, 616-638	18.8	20
42	Dynamics of the large-scale structures and associated noise emission in airfoil slats. <i>Journal of Fluid Mechanics</i> , 2019 , 875, 1004-1034	3.7	6
41	The effect of compressibility on the primary global instability of unforced laminar separation bubbles. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	2
40	Enhancement of disturbance wave amplification due to the intrinsic three-dimensionalisation of laminar separation bubbles. <i>Aeronautical Journal</i> , 2019 , 123, 1492-1507	0.9	4
39	Wavepacket models for subsonic twin jets using 3D parabolized stability equations. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 890-902	2.1	2
38	Eph-ephrin signaling modulated by polymerization and condensation of receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13188-13193	11.5	28
37	Three-Dimensional Flow Stability Analysis Based on the Matrix-Forming Approach Made Affordable. <i>Lecture Notes in Computational Science and Engineering</i> , 2017 , 639-650	0.3	3
36	A combination of parabolized Navier-Stokes equations and level-set method for stratified two-phase internal flow. <i>International Journal of Multiphase Flow</i> , 2017 , 88, 50-62	3.6	6
35	Experimental study of turbulent-jet wave packets and their acoustic efficiency. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	11
34	Formation of Three-Dimensional Structures in the Hemisphere-Cylinder. <i>AIAA Journal</i> , 2016 , 54, 3884-3894		9
33	Flow around a hemisphere-cylinder at high angle of attack and low Reynolds number. Part II: POD and DMD applied to reduced domains. <i>Aerospace Science and Technology</i> , 2015 , 44, 88-100	4.9	31
32	A study of linear wavepacket models for subsonic turbulent jets using local eigenmode decomposition of PIV data. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 308-321	2.4	25
31	Hydrodynamic Instability in the Generation of Slat Noise. <i>Procedia IUTAM</i> , 2015 , 14, 344-353		5

30	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	4.9	15
29	On the Secondary Instability of Forced and Unforced Laminar Separation Bubbles. <i>Procedia IUTAM</i> , 2015 , 14, 78-87		8
28	Effect of the Trailing Edge Geometry on the Unsteadiness of the Flow Around a Stalled NACA 0015 Airfoil. <i>Fluid Mechanics and Its Applications</i> , 2015 , 45-50	0.2	2
27	Proper Orthogonal Decomposition Analysis of Noise Generation Mechanisms in the Slat Cove. <i>Fluid Mechanics and Its Applications</i> , 2015 , 237-242	0.2	
26	Simulation and Modeling of Turbulent Jet Noise. <i>ERCOFTAC Series</i> , 2015 , 305-310	0.1	
25	Wavepacket models for supersonic jet noise. <i>Journal of Fluid Mechanics</i> , 2014 , 742, 71-95	3.7	107
24	Sparse Techniques in Global Flow Instability with Application to Compressible Leading-Edge Flow. <i>AIAA Journal</i> , 2013 , 51, 2295-2303	2.1	13
23	Three-Dimensional Solutions of Trailing-Vortex Flows Using Parabolized Equations. <i>AIAA Journal</i> , 2013 , 51, 2763-2770	2.1	4
22	Wavepackets in the velocity field of turbulent jets. <i>Journal of Fluid Mechanics</i> , 2013 , 730, 559-592	3.7	146
21	Wavepacket eduction in turbulent jets based on eigenmode decomposition of PIV data 2013 ,		1
20	Acoustic field associated with parabolized stability equation models in turbulent jets 2013 ,		8
19	A Study of the Sources of Slat Noise using Proper Orthogonal Decomposition 2013 ,		5
18	Accurate Parabolic Navier-Stokes solutions of the supersonic flow around an elliptic cone 2013 ,		1
17	On the two classes of global primary modal instability in laminar separation bubbles 2013 ,		3
16	Inlet conditions for wave packet models in turbulent jets based on eigenmode decomposition of large eddy simulation data. <i>Physics of Fluids</i> , 2013 , 25, 105107	4.4	19
15	The two classes of primary modal instability in laminar separation bubbles. <i>Journal of Fluid Mechanics</i> , 2013 , 734,	3.7	33
14	Wavepackets in the velocity field of turbulent jets 2012 ,		8
13	Parabolized stability equation models in turbulent supersonic jets 2012 ,		7

12	Linear global instability of non-orthogonal incompressible swept attachment-line boundary-layer flow. <i>Journal of Fluid Mechanics</i> , 2012 , 710, 131-153	3.7	9
11	Linear global instability of non-orthogonal incompressible swept attachment-line boundary layer flow 2011 ,		2
10	The PSE-3D instability analysis methodology for flows depending strongly on two and weakly on the third spatial dimension 2011 ,		20
9	On the birth of stall cells on airfoils. <i>Theoretical and Computational Fluid Dynamics</i> , 2011 , 25, 105-117	2.3	68
8	Stability analysis in spanwise-periodic double-sided lid-driven cavity flows with complex cross-sectional profiles. <i>Computers and Fluids</i> , 2011 , 43, 143-153	2.8	22
7	Structural changes of laminar separation bubbles induced by global linear instability. <i>Journal of Fluid Mechanics</i> , 2010 , 655, 280-305	3.7	68
6	On receptivity and modal linear instability of laminar separation bubbles at all speeds. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010 , 343-348	0.3	
5	Massively Parallel Solution of the BiGlobal Eigenvalue Problem Using Dense Linear Algebra. <i>AIAA Journal</i> , 2009 , 47, 2449-2459	2.1	34
4	BiGlobal stability analysis in curvilinear coordinates of massively separated lifting bodies. <i>Journal of Computational Physics</i> , 2009 , 228, 7181-7196	4.1	29
3	On Instability and Structural Sensitivity of Incompressible Laminar Separation Bubbles on a Flat-Plate Boundary Layer 2008 ,		5
2	BiGlobal Instability Analysis of Turbulent Flow Over an Airfoil at an Angle of Attack 2008 ,		2
1	Massively Parallel Numerical Solution of the BiGlobal Linear Instability Eigenvalue Problem 2008 ,		4