

Guillaume A Brs

List of Publications by Citations

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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.

61
papers

1,463
citations

19
h-index

37
g-index

67
ext. papers

1,979
ext. citations

3.1
avg. IF

4.91
L-index

#	Paper	IF	Citations
61	Three-dimensional instabilities in compressible flow over open cavities. <i>Journal of Fluid Mechanics</i> , 2008 , 599, 309-339	3.7	143
60	Spectral analysis of jet turbulence. <i>Journal of Fluid Mechanics</i> , 2018 , 855, 953-982	3.7	127
59	Wavepacket models for supersonic jet noise. <i>Journal of Fluid Mechanics</i> , 2014 , 742, 71-95	3.7	107
58	Unstructured Large-Eddy Simulations of Supersonic Jets. <i>AIAA Journal</i> , 2017 , 55, 1164-1184	2.1	98
57	An acoustic analogy formulation for moving sources in uniformly moving media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 144-165	2.4	96
56	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. <i>Journal of Fluid Mechanics</i> , 2018 , 851, 83-124	3.7	83
55	Acoustic resonance in the potential core of subsonic jets. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 1113-1152	3.7	71
54	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure education and global stability. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 1153-1181	3.7	66
53	Properties of the Lattice Boltzmann Method for Acoustics 2009 ,		64
52	Second-mode attenuation and cancellation by porous coatings in a high-speed boundary layer. <i>Journal of Fluid Mechanics</i> , 2013 , 726, 312-337	3.7	47
51	Flow and noise predictions for the tandem cylinder aeroacoustic benchmark). <i>Physics of Fluids</i> , 2012 , 24, 036101	4.4	47
50	A Ffowcs Williams - Hawkins Solver for Lattice-Boltzmann Based Computational Aeroacoustics 2010 ,		41
49	Towards Best Practices for Jet Noise Predictions with Unstructured Large Eddy Simulations 2012 ,		38
48	Large eddy simulation for jet noise: the importance of getting the boundary layer right 2015 ,		29
47	Acoustic Properties of Porous Coatings for Hypersonic Boundary-Layer Control. <i>AIAA Journal</i> , 2010 , 48, 267-274	2.1	29
46	High-frequency wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2017 , 830,	3.7	24
45	Towards Numerical Aircraft Noise Certification: Analysis of a Full-Scale Landing Gear in Fly-Over Configuration 2012 ,		23

44	Stochastic and nonlinear forcing of wavepackets in a Mach 0.9 jet 2015 ,	21
43	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
42	Nozzle Wall Modeling in Unstructured Large Eddy Simulations for Hot Supersonic Jet Predictions 2013 ,	18
41	Modelling of jet noise: a perspective from large-eddy simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20190081	3 17
40	Instability of Hypersonic Boundary Layer on a Wall with Resonating Micro-Cavities 2011 ,	17
39	Tandem Cylinder Noise Predictions Using Lattice Boltzmann and Ffowcs Williams-Hawkings Methods 2010 ,	16
38	Large-eddy simulation for supersonic rectangular jet noise prediction: effects of chevrons 2012 ,	15
37	A Hybrid Lattice-Boltzmann/FH-W Method to Predict Sources and Propagation of Landing Gear Noise 2010 ,	14
36	Stability of Temporally Evolving Supersonic Boundary Layers over Micro-Cavities for Ultrasonic Absorptive Coatings 2008 ,	13
35	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound 2016 ,	12
34	Unstructured Large Eddy Simulation of a Hot Supersonic Over-Expanded Jet with Chevrons 2012 ,	11
33	Interaction of Acoustic Disturbances with Micro-Cavities for Ultrasonic Absorptive Coatings 2008 ,	11
32	A statistical jet-noise model based on the resolvent framework 2017 ,	10
31	Direct Numerical Simulations of Three-Dimensional Cavity Flows 2007 ,	10
30	Large-eddy simulations of co-annular turbulent jet using a Voronoi-based mesh generation framework 2018 ,	10
29	Trapped acoustic waves in the potential core of subsonic jets 2016 ,	8
28	Acoustic field associated with parabolized stability equation models in turbulent jets 2013 ,	8
27	Numerical Simulations of Subsonic and Transonic Open-Cavity Flows 2014 ,	7

26	Unstructured Large Eddy Simulations for Nozzle Interior Flow Modeling and Jet Noise Predictions 2014,		7
25	Parabolized stability equation models in turbulent supersonic jets 2012,		7
24	Alternate Designs of Ultrasonic Absorptive Coatings for Hypersonic Boundary Layer Control 2009,		7
23	Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet 2016,		6
22	Flow and Noise Predictions for Tandem Cylinders in a Realistic Wind-Tunnel Configuration 2011,		6
21	Three-Dimensional Linear Stability Analysis of Cavity Flows 2007,		6
20	Investigating the effects of temperature non-uniformity on supersonic jet noise with large-eddy simulation 2019,		5
19	An investigation of the Mach number dependence of trapped acoustic waves in turbulent jets 2019,		5
18	Comparison between Wall-modeled and Wall-resolved Large Eddy Simulations for the prediction of boundary-layer separation around the side mirror of a full-scale vehicle 2017,		4
17	Tonal dynamics and sound in subsonic turbulent jets 2016,		4
16	Numerical Simulations of the Transient Flow Response of a 3D, Low-Aspect-Ratio Wing to Pulsed Actuation 2011,		4
15	A First Step Toward the Prediction of Rotorcraft Maneuver Noise. <i>Journal of the American Helicopter Society</i> , 2005 , 50, 230	1.2	4
14	One Way Navier-Stokes and resolvent analysis for modeling coherent structures in a supersonic turbulent jet 2017,		4
13	Amplitude Scaling of Wave Packets in Turbulent Jets. <i>AIAA Journal</i> , 2021 , 59, 559-568	2.1	4
12	Numerical Simulations of Natural and Actuated Flow over a 3-D, Low-Aspect-Ratio Airfoil 2010,		3
11	Wavepacket intermittency and its role in turbulent jet noise 2017,		2
10	Large eddy simulations of supersonic rectangular jets from sinuous exhaust system 2017,		2
9	Effects of coherence on jet-surface interaction noise 2016,		2

8	Turbulent jet noise in the absence of coherent structures. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	2
7	Evaluation of PSE as a Model for Supersonic Jet Using Transfer Functions 2017 ,		2
6	Nozzle dynamics and wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2021 , 923,	3.7	2
5	Streaks and coherent structures in jets from round and serrated nozzles 2019 ,		2
4	On removing the near-field coherent structures in a jet and its impact on the radiated sound 2016 ,		1
3	High-frequency wavepackets in turbulent jets 2016 ,		1
2	Amplitude scaling of turbulent-jet wavepackets 2018 ,		1
1	Real-time supersonic jet noise predictions from near-field sensors with a wavepacket model.. <i>Journal of the Acoustical Society of America</i> , 2021 , 150, 4297	2.2	0