

# Guillaume A Brs

## List of Publications by Year in Descending Order

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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	Nozzle dynamics and wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 923,	3.7	2
60	Amplitude Scaling of Wave Packets in Turbulent Jets. <i>AIAA Journal</i> , <b>2021</b> , 59, 559-568	2.1	4
59	Real-time supersonic jet noise predictions from near-field sensors with a wavepacket model.. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 150, 4297	2.2	0
58	Modelling of jet noise: a perspective from large-eddy simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20190081	3	17
57	Investigating the effects of temperature non-uniformity on supersonic jet noise with large-eddy simulation <b>2019</b> ,		5
56	An investigation of the Mach number dependence of trapped acoustic waves in turbulent jets <b>2019</b> ,		5
55	Streaks and coherent structures in jets from round and serrated nozzles <b>2019</b> ,		2
54	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 851, 83-124	3.7	83
53	Spectral analysis of jet turbulence. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 855, 953-982	3.7	127
52	Large-eddy simulations of co-annular turbulent jet using a Voronoi-based mesh generation framework <b>2018</b> ,		10
51	Amplitude scaling of turbulent-jet wavepackets <b>2018</b> ,		1
50	Unstructured Large-Eddy Simulations of Supersonic Jets. <i>AIAA Journal</i> , <b>2017</b> , 55, 1164-1184	2.1	98
49	Wavepacket intermittency and its role in turbulent jet noise <b>2017</b> ,		2
48	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 <b>2017</b> ,		4
47	Large eddy simulations of supersonic rectangular jets from sinuous exhaust system <b>2017</b> ,		2
46	A statistical jet-noise model based on the resolvent framework <b>2017</b> ,		10
45	High-frequency wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 830,	3.7	24

44	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure eduction and global stability. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 825, 1153-1181	3.7	66
43	Acoustic resonance in the potential core of subsonic jets. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 825, 1113-1152	3.7	71
42	Turbulent jet noise in the absence of coherent structures. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	2
41	One Way Navier-Stokes and resolvent analysis for modeling coherent structures in a supersonic turbulent jet <b>2017</b> ,		4
40	Evaluation of PSE as a Model for Supersonic Jet Using Transfer Functions <b>2017</b> ,		2
39	Effects of coherence on jet-surface interaction noise <b>2016</b> ,		2
38	On removing the near-field coherent structures in a jet and its impact on the radiated sound <b>2016</b> ,		1
37	Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet <b>2016</b> ,		6
36	Trapped acoustic waves in the potential core of subsonic jets <b>2016</b> ,		8
35	Tonal dynamics and sound in subsonic turbulent jets <b>2016</b> ,		4
34	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound <b>2016</b> ,		12
33	High-frequency wavepackets in turbulent jets <b>2016</b> ,		1
32	Stochastic and nonlinear forcing of wavepackets in a Mach 0.9 jet <b>2015</b> ,		21
31	Large eddy simulation for jet noise: the importance of getting the boundary layer right <b>2015</b> ,		29
30	Numerical Simulations of Subsonic and Transonic Open-Cavity Flows <b>2014</b> ,		7
29	Unstructured Large Eddy Simulations for Nozzle Interior Flow Modeling and Jet Noise Predictions <b>2014</b> ,		7
28	Wavepacket models for supersonic jet noise. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 742, 71-95	3.7	107
27	Second-mode attenuation and cancellation by porous coatings in a high-speed boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 726, 312-337	3.7	47

26	Acoustic field associated with parabolized stability equation models in turbulent jets <b>2013</b> ,		8
25	Inlet conditions for wave packet models in turbulent jets based on eigenmode decomposition of large eddy simulation data. <i>Physics of Fluids</i> , <b>2013</b> , 25, 105107	4-4	19
24	Nozzle Wall Modeling in Unstructured Large Eddy Simulations for Hot Supersonic Jet Predictions <b>2013</b> ,		18
23	Towards Best Practices for Jet Noise Predictions with Unstructured Large Eddy Simulations <b>2012</b> ,		38
22	Flow and noise predictions for the tandem cylinder aeroacoustic benchmarka). <i>Physics of Fluids</i> , <b>2012</b> , 24, 036101	4-4	47
21	Large-eddy simulation for supersonic rectangular jet noise prediction: effects of chevrons <b>2012</b> ,		15
20	Unstructured Large Eddy Simulation of a Hot Supersonic Over-Expanded Jet with Chevrons <b>2012</b> ,		11
19	Towards Numerical Aircraft Noise Certification: Analysis of a Full-Scale Landing Gear in Fly-Over Configuration <b>2012</b> ,		23
18	Parabolized stability equation models in turbulent supersonic jets <b>2012</b> ,		7
17	Numerical Simulations of the Transient Flow Response of a 3D, Low-Aspect-Ratio Wing to Pulsed Actuation <b>2011</b> ,		4
16	Instability of Hypersonic Boundary Layer on a Wall with Resonating Micro-Cavities <b>2011</b> ,		17
15	An acoustic analogy formulation for moving sources in uniformly moving media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2011</b> , 467, 144-165	2-4	96
14	Flow and Noise Predictions for Tandem Cylinders in a Realistic Wind-Tunnel Configuration <b>2011</b> ,		6
13	A Ffowcs Williams - Hawkings Solver for Lattice-Boltzmann Based Computational Aeroacoustics <b>2010</b> ,		41
12	Tandem Cylinder Noise Predictions Using Lattice Boltzmann and Ffowcs Williams-Hawkings Methods <b>2010</b> ,		16
11	A Hybrid Lattice-Boltzmann/FH-W Method to Predict Sources and Propagation of Landing Gear Noise <b>2010</b> ,		14
10	Numerical Simulations of Natural and Actuated Flow over a 3-D, Low-Aspect-Ratio Airfoil <b>2010</b> ,		3
9	Acoustic Properties of Porous Coatings for Hypersonic Boundary-Layer Control. <i>AIAA Journal</i> , <b>2010</b> , 48, 267-274	2-1	29

8	Properties of the Lattice Boltzmann Method for Acoustics <b>2009</b> ,	64
7	Alternate Designs of Ultrasonic Absorptive Coatings for Hypersonic Boundary Layer Control <b>2009</b> ,	7
6	Three-dimensional instabilities in compressible flow over open cavities. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 599, 309-339	3-7 143
5	Interaction of Acoustic Disturbances with Micro-Cavities for Ultrasonic Absorptive Coatings <b>2008</b> ,	11
4	Stability of Temporally Evolving Supersonic Boundary Layers over Micro-Cavities for Ultrasonic Absorptive Coatings <b>2008</b> ,	13
3	Three-Dimensional Linear Stability Analysis of Cavity Flows <b>2007</b> ,	6
2	Direct Numerical Simulations of Three-Dimensional Cavity Flows <b>2007</b> ,	10
1	A First Step Toward the Prediction of Rotorcraft Maneuver Noise. <i>Journal of the American Helicopter Society</i> , <b>2005</b> , 50, 230	1.2 4