

Guillaume A BrÃ's

List of Publications by Year in descending order

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66
papers

2,299
citations

623734

14
h-index

794594

19
g-index

67
all docs

67
docs citations

67
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral analysis of jet turbulence. Journal of Fluid Mechanics, 2018, 855, 953-982.	3.4	268
2	Three-dimensional instabilities in compressible flow over open cavities. Journal of Fluid Mechanics, 2008, 599, 309-339.	3.4	181
3	Unstructured Large-Eddy Simulations of Supersonic Jets. AIAA Journal, 2017, 55, 1164-1184.	2.6	176
4	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. Journal of Fluid Mechanics, 2018, 851, 83-124.	3.4	154
5	Wavepacket models for supersonic jet noise. Journal of Fluid Mechanics, 2014, 742, 71-95.	3.4	144
6	An acoustic analogy formulation for moving sources in uniformly moving media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 144-165.	2.1	140
7	Acoustic resonance in the potential core of subsonic jets. Journal of Fluid Mechanics, 2017, 825, 1113-1152.	3.4	125
8	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure eduction and global stability. Journal of Fluid Mechanics, 2017, 825, 1153-1181.	3.4	108
9	Properties of the Lattice Boltzmann Method for Acoustics. , 2009, , .		100
10	Second-mode attenuation and cancellation by porous coatings in a high-speed boundary layer. Journal of Fluid Mechanics, 2013, 726, 312-337.	3.4	71
11	A Ffowcs Williams - Hawkings Solver for Lattice-Boltzmann Based Computational Aeroacoustics. , 2010, , .		62
12	Flow and noise predictions for the tandem cylinder aeroacoustic benchmark. Physics of Fluids, 2012, 24, .	4.0	59
13	Towards Best Practices for Jet Noise Predictions with Unstructured Large Eddy Simulations. , 2012, , .		56
14	Acoustic Properties of Porous Coatings for Hypersonic Boundary-Layer Control. AIAA Journal, 2010, 48, 267-274.	2.6	46
15	Modelling of jet noise: a perspective from large-eddy simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190081.	3.4	42
16	Large eddy simulation for jet noise: the importance of getting the boundary layer right. , 2015, , .		38
17	Large-eddy simulations of co-annular turbulent jet using a Voronoi-based mesh generation framework. , 2018, , .		33
18	High-frequency wavepackets in turbulent jets. Journal of Fluid Mechanics, 2017, 830, .	3.4	32

#	ARTICLE	IF	CITATIONS
19	Towards Numerical Aircraft Noise Certification: Analysis of a Full-Scale Landing Gear in Fly-Over Configuration. , 2012, , .		30
20	Stochastic and nonlinear forcing of wavepackets in a Mach 0.9 jet. , 2015, , .		28
21	Inlet conditions for wave packet models in turbulent jets based on eigenmode decomposition of large eddy simulation data. Physics of Fluids, 2013, 25, .	4.0	24
22	Nozzle Wall Modeling in Unstructured Large Eddy Simulations for Hot Supersonic Jet Predictions. , 2013, , .		21
23	A Hybrid Lattice-Boltzmann/FH-W Method to Predict Sources and Propagation of Landing Gear Noise. , 2010, , .		19
24	Instability of Hypersonic Boundary Layer on a Wall with Resonating Micro-Cavities. , 2011, , .		19
25	A statistical jet-noise model based on the resolvent framework. , 2017, , .		19
26	Direct Numerical Simulations of Three-Dimensional Cavity Flows. , 2007, , .		18
27	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound. , 2016, , .		18
28	Tandem Cylinder Noise Predictions Using Lattice Boltzmann and Ffowcs Williams-Hawkings Methods. , 2010, , .		17
29	Large-eddy simulation for supersonic rectangular jet noise prediction: effects of chevrons. , 2012, , .		17
30	Stability of Temporally Evolving Supersonic Boundary Layers over Micro-Cavities for Ultrasonic Absorptive Coatings. , 2008, , .		15
31	One Way Navier-Stokes and resolvent analysis for modeling coherent structures in a supersonic turbulent jet. , 2017, , .		14
32	Nozzle dynamics and wavepackets in turbulent jets. Journal of Fluid Mechanics, 2021, 923, .	3.4	13
33	Interaction of Acoustic Disturbances with Micro-Cavities for Ultrasonic Absorptive Coatings. , 2008, , .		12
34	Unstructured Large Eddy Simulation of a Hot Supersonic Over-Expanded Jet with Chevrons. , 2012, , .		12
35	Numerical Simulations of Subsonic and Transonic Open-Cavity Flows. , 2014, , .		11
36	Alternate Designs of Ultrasonic Absorptive Coatings for Hypersonic Boundary Layer Control. , 2009, , .		10

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37	Parabolized stability equation models in turbulent supersonic jets. , 2012, , .		10
38	Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet. , 2016, , .		10
39	Trapped acoustic waves in the potential core of subsonic jets. , 2016, , .		10
40	Investigating the effects of temperature non-uniformity on supersonic jet noise with large-eddy simulation. , 2019, , .		10
41	Acoustic field associated with parabolized stability equation models in turbulent jets. , 2013, , .		9
42	Unstructured Large Eddy Simulations for Nozzle Interior Flow Modeling and Jet Noise Predictions. , 2014, , .		9
43	Three-Dimensional Linear Stability Analysis of Cavity Flows. , 2007, , .		8
44	An investigation of the Mach number dependence of trapped acoustic waves in turbulent jets. , 2019, , .		8
45	Turbulent jet noise in the absence of coherent structures. Physical Review Fluids, 2017, 2, .	2.5	7
46	A First Step Toward the Prediction of Rotorcraft Maneuver Noise. Journal of the American Helicopter Society, 2005, 50, 230.	0.8	6
47	Numerical Simulations of the Transient Flow Response of a 3D, Low-Aspect-Ratio Wing to Pulsed Actuation. , 2011, , .		6
48	Flow and Noise Predictions for Tandem Cylinders in a Realistic Wind-Tunnel Configuration. , 2011, , .		6
49	Tonal dynamics and sound in subsonic turbulent jets. , 2016, , .		6
50	Large eddy simulations of supersonic rectangular jets from sinuous exhaust system. , 2017, , .		6
51	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, , .		5
52	Amplitude Scaling of Wave Packets in Turbulent Jets. AIAA Journal, 2021, 59, 559-568.	2.6	5
53	Numerical Simulations of Natural and Actuated Flow over a 3-D, Low-Aspect-Ratio Airfoil. , 2010, , .		3
54	Wavepacket intermittency and its role in turbulent jet noise. , 2017, , .		3

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55	Streaks and coherent structures in jets from round and serrated nozzles. , 2019, , .		3
56	Effects of coherence on jet-surface interaction noise. , 2016, , .		2
57	High-frequency wavepackets in turbulent jets. , 2016, , .		2
58	Towards large-eddy simulations of supersonic jets from twin rectangular nozzle with plasma actuation. , 2021, , .		2
59	Evaluation of PSE as a Model for Supersonic Jet Using Transfer Functions. , 2017, , .		2
60	Real-time supersonic jet noise predictions from near-field sensors with a wavepacket model. Journal of the Acoustical Society of America, 2021, 150, 4297-4307.	1.1	2
61	GPU-accelerated large-eddy simulations of supersonic jets from twin rectangular nozzle. , 2022, , .		2
62	Three-Dimensional Spectral POD of Supersonic Twin-Rectangular Jet Flow. , 2022, , .		2
63	An Acoustic Analogy Formulation for Uniformly Moving Media: Formulation 1C. , 2010, , .		1
64	On removing the near-field coherent structures in a jet and its impact on the radiated sound. , 2016, , .		1
65	Amplitude scaling of turbulent-jet wavepackets. , 2018, , .		1
66	Dynamics of turbulent boundary layers exciting wavepackets in subsonic jets. , 2019, , .		0