

Christophe Bogey

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8733519/christophe-bogey-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

145
papers

4,673
citations

33
h-index

66
g-index

161
ext. papers

5,516
ext. citations

2.6
avg, IF

6.16
L-index

#	Paper	IF	Citations
145	A family of low dispersive and low dissipative explicit schemes for flow and noise computations. <i>Journal of Computational Physics</i> , 2004 , 194, 194-214	4.1	618
144	Noise Investigation of a High Subsonic, Moderate Reynolds Number Jet Using a Compressible Large Eddy Simulation. <i>Theoretical and Computational Fluid Dynamics</i> , 2003 , 16, 273-297	2.3	271
143	A shock-capturing methodology based on adaptative spatial filtering for high-order non-linear computations. <i>Journal of Computational Physics</i> , 2009 , 228, 1447-1465	4.1	225
142	Influence of nozzle-exit boundary-layer conditions on the flow and acoustic fields of initially laminar jets. <i>Journal of Fluid Mechanics</i> , 2010 , 663, 507-538	3.7	167
141	High-order, low dispersive and low dissipative explicit schemes for multiple-scale and boundary problems. <i>Journal of Computational Physics</i> , 2007 , 224, 637-662	4.1	163
140	Large eddy simulations of transitional round jets: Influence of the Reynolds number on flow development and energy dissipation. <i>Physics of Fluids</i> , 2006 , 18, 065101	4.4	156
139	Computation of Flow Noise Using Source Terms in Linearized Euler's Equations. <i>AIAA Journal</i> , 2002 , 40, 235-243	2.1	151
138	An analysis of the correlations between the turbulent flow and the sound pressure fields of subsonic jets. <i>Journal of Fluid Mechanics</i> , 2007 , 583, 71-97	3.7	140
137	Effects of Inflow Conditions and Forcing on Subsonic Jet Flows and Noise.. <i>AIAA Journal</i> , 2005 , 43, 1000-1007	1.07	139
136	Turbulence and energy budget in a self-preserving round jet: direct evaluation using large eddy simulation. <i>Journal of Fluid Mechanics</i> , 2009 , 627, 129-160	3.7	136
135	Low-dissipation and low-dispersion fourth-order Runge-Kutta algorithm. <i>Computers and Fluids</i> , 2006 , 35, 1459-1463	2.8	132
134	Large-eddy simulation of the flow and acoustic fields of a Reynolds number 105 subsonic jet with tripped exit boundary layers. <i>Physics of Fluids</i> , 2011 , 23, 035104	4.4	115
133	Influence of initial turbulence level on the flow and sound fields of a subsonic jet at a diameter-based Reynolds number of 105. <i>Journal of Fluid Mechanics</i> , 2012 , 701, 352-385	3.7	114
132	Computation of a high Reynolds number jet and its radiated noise using large eddy simulation based on explicit filtering. <i>Computers and Fluids</i> , 2006 , 35, 1344-1358	2.8	109
131	Large eddy simulations of round free jets using explicit filtering with/without dynamic Smagorinsky model. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 603-610	2.4	90
130	Numerical study of screech generation in a planar supersonic jet. <i>Physics of Fluids</i> , 2007 , 19, 075105	4.4	79
129	Numerical Simulation of Sound Generated by Vortex Pairing in a Mixing Layer. <i>AIAA Journal</i> , 2000 , 38, 2210-2218	2.1	72

128	Direct Noise Computation of the Turbulent Flow Around a Zero-Incidence Airfoil. <i>AIAA Journal</i> , 2008 , 46, 874-883	2.1	69
127	Investigation of downstream and sideline subsonic jet noise using Large Eddy Simulation. <i>Theoretical and Computational Fluid Dynamics</i> , 2006 , 20, 23-40	2.3	68
126	Experimental Study of the Spectral Properties of Near-Field and Far-Field Jet Noise. <i>International Journal of Aeroacoustics</i> , 2007 , 6, 73-92	2.1	64
125	Finite differences for coarse azimuthal discretization and for reduction of effective resolution near origin of cylindrical flow equations. <i>Journal of Computational Physics</i> , 2011 , 230, 1134-1146	4.1	62
124	Simulation of a hot coaxial jet: Direct noise prediction and flow-acoustics correlations. <i>Physics of Fluids</i> , 2009 , 21, 035105	4.4	61
123	Decrease of the Effective Reynolds Number with Eddy-Viscosity Subgrid Modeling. <i>AIAA Journal</i> , 2005 , 43, 437-439	2.1	60
122	On the performance of relaxation filtering for large-eddy simulation. <i>Journal of Turbulence</i> , 2013 , 14, 22-49	2.1	55
121	Numerical Evidence of Mode Switching in the Flow-Induced Oscillations by a Cavity. <i>International Journal of Aeroacoustics</i> , 2003 , 2, 193-217	2.1	50
120	Contributions of Computational Aeroacoustics to Jet Noise Research and Prediction. <i>International Journal of Computational Fluid Dynamics</i> , 2004 , 18, 481-491	1.2	49
119	Feedback loop and upwind-propagating waves in ideally expanded supersonic impinging round jets. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 562-591	3.7	48
118	Effects of moderate Reynolds numbers on subsonic round jets with highly disturbed nozzle-exit boundary layers. <i>Physics of Fluids</i> , 2012 , 24, 105107	4.4	45
117	Investigation of a High-Mach-Number Overexpanded Jet Using Large-Eddy Simulation. <i>AIAA Journal</i> , 2011 , 49, 2171-2182	2.1	45
116	Investigation of tone generation in ideally expanded supersonic planar impinging jets using large-eddy simulation. <i>Journal of Fluid Mechanics</i> , 2016 , 808, 90-115	3.7	43
115	Educing the source mechanism associated with downstream radiation in subsonic jets. <i>Journal of Fluid Mechanics</i> , 2012 , 710, 606-640	3.7	39
114	Large-eddy simulation of turbulent channel flow using relaxation filtering: Resolution requirement and Reynolds number effects. <i>Computers and Fluids</i> , 2015 , 116, 17-28	2.8	38
113	Direct Computation of the Noise Generated by Subsonic Jets Originating from a Straight Pipe Nozzle. <i>International Journal of Aeroacoustics</i> , 2008 , 7, 1-21	2.1	34
112	HIGH-ORDER CURVILINEAR SIMULATIONS OF FLOWS AROUND NON-CARTESIAN BODIES. <i>Journal of Computational Acoustics</i> , 2005 , 13, 731-748		33
111	Computation of the sound radiated by a 3-D jet using large eddy simulation 2000 ,		33

110	Oscillation Modes in Screeching Jets. <i>AIAA Journal</i> , 2018 , 56, 2918-2924	2.1	30
109	Identification of the effects of the nozzle-exit boundary-layer thickness and its corresponding Reynolds number in initially highly disturbed subsonic jets. <i>Physics of Fluids</i> , 2013 , 25, 055106	4.4	28
108	Noise of an Overexpanded Mach 3.3 Jet: Non-Linear Propagation Effects and Correlations with Flow. <i>International Journal of Aeroacoustics</i> , 2014 , 13, 607-632	2.1	28
107	Progress in Direct Noise Computation. <i>International Journal of Aeroacoustics</i> , 2010 , 9, 123-143	2.1	27
106	An investigation of the mechanisms of sound generation in initially laminar subsonic jets using the Goldstein acoustic analogy. <i>Journal of Fluid Mechanics</i> , 2013 , 714, 24-57	3.7	25
105	Filter shape dependence and effective scale separation in large-eddy simulations based on relaxation filtering. <i>Computers and Fluids</i> , 2011 , 47, 65-74	2.8	25
104	Flow Structure Oscillations and Tone Production in Underexpanded Impinging Round Jets. <i>AIAA Journal</i> , 2017 , 55, 1792-1805	2.1	24
103	Numerical study of eigenmode forcing effects on jet flow development and noise generation mechanisms. <i>Physics of Fluids</i> , 2009 , 21, 045106	4.4	24
102	A study of infrasound propagation based on high-order finite difference solutions of the Navier-Stokes equations. <i>Journal of the Acoustical Society of America</i> , 2014 , 135, 1083-95	2.2	23
101	Investigation of flow features and acoustic radiation of a round cavity. <i>Journal of Sound and Vibration</i> , 2012 , 331, 3521-3543	3.9	22
100	LES of a High Reynolds, High Subsonic Jet: Effects of the Inflow Conditions on Flow and Noise 2003 ,		22
99	Simulations of Initially Highly Disturbed Jets with Experiment-Like Exit Boundary Layers. <i>AIAA Journal</i> , 2016 , 54, 1299-1312	2.1	21
98	Investigation of Subsonic Jet Noise Using LES: Mach and Reynolds Number Effects 2004 ,		21
97	Grid sensitivity of flow field and noise of high-Reynolds-number jets computed by large-eddy simulation. <i>International Journal of Aeroacoustics</i> , 2018 , 17, 399-424	2.1	21
96	Numerical study of the flow and the near acoustic fields of an underexpanded round free jet generating two screech tones. <i>International Journal of Aeroacoustics</i> , 2017 , 16, 603-625	2.1	20
95	Modelling of Sound Generation by Turbulent Reacting Flows. <i>International Journal of Aeroacoustics</i> , 2010 , 9, 461-489	2.1	20
94	Simulation of Subsonic Turbulent Nozzle Jet Flow and Its Near-Field Sound. <i>AIAA Journal</i> , 2014 , 52, 1653-1669	2.1	19
93	On the spectra of nozzle-exit velocity disturbances in initially nominally turbulent, transitional jets. <i>Physics of Fluids</i> , 2011 , 23, 091702	4.4	19

92	A numerical study of nonlinear infrasound propagation in a windy atmosphere. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 641	2.2	19
91	On the application of explicit spatial filtering to the variables or fluxes of linear equations. <i>Journal of Computational Physics</i> , 2007 , 225, 1211-1217	4.1	18
90	Aerodynamic Noise Induced by Laminar and Turbulent Boundary Layers over Rectangular Cavities 2002 ,		18
89	Large Eddy Simulation of Screech Tone Generation in a Planar Underexpanded Jet 2006 ,		17
88	Investigation of sound sources in subsonic jets using causality methods on LES data 2005 ,		16
87	Effects of nozzle-exit boundary-layer profile on the initial shear-layer instability, flow field and noise of subsonic jets. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 288-325	3.7	15
86	Illustration of the Inclusion of Sound-Flow Interactions in Lighthill's Equation. <i>AIAA Journal</i> , 2003 , 41, 1604-1606	2.1	15
85	Computation of flow noise using source terms in linearized Euler's equations 2000 ,		15
84	Computation of the Noise Radiated by Jets with Laminar/Turbulent Nozzle-Exit Conditions 2006 ,		14
83	LES of a High Reynolds, High Subsonic Jet: Effects of the Subgrid Modellings on Flow and Noise 2003 ,		14
82	Steepened Mach waves near supersonic jets: study of azimuthal structure and generation process using conditional averages. <i>Journal of Fluid Mechanics</i> , 2019 , 880, 594-619	3.7	12
81	A study of differentiation errors in large-eddy simulations based on the EDQNM theory. <i>Journal of Computational Physics</i> , 2008 , 227, 8314-8340	4.1	11
80	Some useful hybrid approaches for predicting aerodynamic noise. <i>Comptes Rendus - Mecanique</i> , 2005 , 333, 666-675	2.1	11
79	On noise generation in low Reynolds number temporal round jets at a Mach number of 0.9. <i>Journal of Fluid Mechanics</i> , 2019 , 859, 1022-1056	3.7	11
78	A computational study of the effects of nozzle-exit turbulence level on the flow and acoustic fields of a subsonic jet 2011 ,		10
77	Noise computation using Lighthill's equation with inclusion of mean flow-acoustics interactions 2001 ,		10
76	Acoustic tones in the near-nozzle region of jets: characteristics and variations between Mach numbers 0.5 and 2. <i>Journal of Fluid Mechanics</i> , 2021 , 921,	3.7	10
75	Investigation of flow features around shallow round cavities subject to subsonic grazing flow. <i>Physics of Fluids</i> , 2012 , 24, 125107	4.4	9

74	Development of Compressible Large-Eddy Simulations Combining High-Order Schemes and Wall Modeling. <i>AIAA Journal</i> , 2017 , 55, 1152-1163	2.1	8
73	Optimized Explicit Schemes: Matching and Boundary Schemes, and 4th-order Runge-Kutta Algorithm 2004 ,		8
72	Numerical investigation of wave steepening and shock coalescence near a cold Mach 3 jet. <i>Journal of the Acoustical Society of America</i> , 2021 , 149, 357	2.2	8
71	Simulations of viscous and compressible gas flows using high-order finite difference schemes. <i>Journal of Computational Physics</i> , 2018 , 361, 56-81	4.1	7
70	Numerical investigation of temperature effects on properties of subsonic turbulent jets 2013 ,		7
69	Development of Noncentered Wavenumber-Based Optimized Interpolation Schemes with Amplification Control for Overlapping Grids. <i>SIAM Journal of Scientific Computing</i> , 2010 , 32, 2074-2098	2.6	7
68	Influence of the Nozzle-Exit Boundary-Layer Thickness on the Flow and Acoustic Fields of Initially Laminar Jets 2009 ,		7
67	Direct Noise Computation around a 3-D NACA 0012 airfoil 2006 ,		7
66	Large-eddy simulation of underexpanded round jets impinging on a flat plate 4 to 9 radii downstream from the nozzle 2015 ,		6
65	Temperature Effects on Convection Speed and Steepened Waves of Temporally Developing Supersonic Jets. <i>AIAA Journal</i> , 2020 , 58, 1227-1239	2.1	6
64	Direct Noise Computation of a Shocked and Heated Jet at a Mach Number of 3.30 2010 ,		6
63	Investigation of flow features and acoustic radiation of a round cavity. 2008 ,		6
62	Self-Adjusting Shock-Capturing Spatial Filtering for High-Order Non-Linear Computations 2008 ,		6
61	Intermittent statistics of the 0-mode pressure fluctuations in the near field of Mach 0.9 circular jets at low and high Reynolds numbers. <i>Theoretical and Computational Fluid Dynamics</i> , 2021 , 35, 229-247	2.3	6
60	Development of compressible large-eddy simulations combining high-order schemes and wall modeling 2015 ,		5
59	Flow Features near Plate Impinged by Ideally Expanded and Underexpanded Round Jets. <i>AIAA Journal</i> , 2018 , 56, 445-457	2.1	5
58	Flow and acoustic fields of Reynolds number 10 ⁵ , subsonic jets with tripped exit boundary layers 2010 ,		5
57	Noise Radiated by a High-Reynolds-number 3-D Airfoil 2005 ,		5

56	Experimental Study of the Properties of Near-Field and Far-Field Jet Noise 2006 ,		5
55	Downstream subsonic jet noise: link with vortical structures intruding into the jet core. <i>Comptes Rendus - Mecanique</i> , 2002 , 330, 527-533	2.1	5
54	Numerical Investigation of the Coexistence of Multiple Tones in Flow-induced Cavity Noise 2003 ,		5
53	Potential-core closing of temporally developing jets at Mach numbers between 0.3 and 2: Scaling and conditional averaging of flow and sound fields. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	5
52	Progress in Direct Noise Computation. <i>Noise Notes</i> , 2010 , 9, 31-48		5
51	Numerical Simulation of Supersonic Jet Noise. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2009 , 29-46	0.3	5
50	Selective Filtering Versus Eddy Viscosity for Subgrid Modelling in the LES of a Subsonic Jet. <i>ERCRAFT Series</i> , 2004 , 23-30	0.1	5
49	Semi-Implicit Runge-Kutta Schemes: Development and Application to Compressible Channel Flow. <i>AIAA Journal</i> , 2014 , 52, 516-527	2.1	4
48	Direct Computation of the Noise Generated by a Hot Coaxial Jet 2007 ,		4
47	Two-dimensional features of correlations in the flow and near pressure fields of Mach number 0.9 jets 2019 ,		4
46	Depth effects on the flow features and noise signature of shallow cylindrical cavities at a Mach number of 0.25 2012 ,		3
45	Computation of the noise of initially laminar jets using a statistical approach for the acoustic analogy: application and discussion 2011 ,		3
44	Direct simulation of isolated elliptic vortices and of their radiated noise. <i>Theoretical and Computational Fluid Dynamics</i> , 2008 , 22, 65-82	2.3	3
43	High-order Curvilinear Simulations of Flows Around Non-Cartesian Bodies 2004 ,		3
42	Imprint of Vortical Structures on the Near-Field Pressure of a Turbulent Jet. <i>AIAA Journal</i> , 1-14	2.1	3
41	A Study of the Influence of the Reynolds Number on Jet Self-Similarity Using Large-Eddy Simulation. <i>ERCRAFT Series</i> , 2010 , 11-16	0.1	3
40	Links Between Steepened Mach Waves and Coherent Structures for a Supersonic Jet. <i>AIAA Journal</i> , 2021 , 59, 1673-1681	2.1	3
39	Effects of the angle of impact on the aeroacoustic feedback mechanism in supersonic impinging planar jets. <i>International Journal of Aeroacoustics</i> , 2019 , 18, 258-278	2.1	3

38	Generation of Excess Noise by Jets with Highly Disturbed Laminar Boundary-Layer Profiles. <i>AIAA Journal</i> , 2021 , 59, 569-579	2.1	3
37	Study of the generation of shock waves by high-speed jets using conditional averaging 2018 ,		3
36	Acoustic shielding and interaction effects for strongly heated supersonic twin jets. <i>AIP Advances</i> , 2021 , 11, 075114	1.5	3
35	Direct numerical simulation of a temporally-developing subsonic round jet and its sound field 2017 ,		2
34	Numerical modelling of jets exiting from the ASME and conical nozzles 2015 ,		2
33	A study of the grid dependence of the flow field and noise of subsonic jets 2016 ,		2
32	A technique of flux reconstruction at the interfaces of nonconforming grids for aeroacoustic simulations. <i>International Journal for Numerical Methods in Fluids</i> , 2019 , 91, 587-614	1.9	2
31	Influence of nozzle-exit boundary-layer profile on high-subsonic jets 2014 ,		2
30	Numerical Investigation of Flow Features and Acoustic Radiation of a Round Cavity 2010 ,		2
29	Flow and sound fields of initially tripped jets at Reynolds numbers ranging from 25,000 to 200,000 2012 ,		2
28	Effects of initial shear-layer thickness on turbulent subsonic jets at moderate Reynolds numbers 2012 ,		2
27	On the importance of specifying appropriate nozzle-exit conditions in jet noise prediction. <i>Procedia Engineering</i> , 2010 , 6, 38-43		2
26	Investigation using statistical closure theory of the influence of the filter shape on scale separation in large-eddy simulation. <i>Journal of Turbulence</i> , 2008 , 9, N21	2.1	2
25	Intermittency and Stochastic Modeling of Low- and High-Reynolds-Number Compressible Jets. <i>AIAA Journal</i> , 1-8	2.1	2
24	Tones in the Acoustic Far Field of Jets in the Upstream Direction. <i>AIAA Journal</i> , 1-10	2.1	2
23	Analysis of Numerical Error Reduction in Explicitly Filtered LES Using Two-Point Turbulence Closure. <i>ERCFTAC Series</i> , 2008 , 143-154	0.1	2
22	Numerical Study of Temporally-Developing Supersonic Round Jets and their Sound Fields 2017 ,		1
21	Large Eddy Simulation of Highly Compressible Jets with Tripped Boundary Layers. <i>ERCFTAC Series</i> , 2019 , 333-339	0.1	1

20	Large-eddy simulation of supersonic planar jets impinging on a flat plate at an angle of 60 to 90 degrees 2015 ,		1
19	A flux reconstruction technique for non-conforming grid interfaces in aeroacoustic simulations 2016 ,		1
18	Estimation of convection speed in underexpanded jets from schlieren pictures 2016 ,		1
17	Azimuthal organisation of turbulent structures in underexpanded impinging round jets 2016 ,		1
16	Analysis of the dissipation and dispersion properties of the multi-domain Chebyshev pseudospectral method. <i>Journal of Computational Physics</i> , 2013 , 255, 31-47	4.1	1
15	A study of the effects of temperature on velocity and density fluctuations in high-subsonic jets 2014 ,		1
14	Influence of resolution and Reynolds number on large-eddy simulations of channel flow using relaxation filtering 2013 ,		1
13	Jet Turbulence Characteristics Associated with Downstream and Sideline Sound Emission 2010 ,		1
12	Generation of acoustic tones in round jets at a Mach number of 0.9 impinging on a plate with and without a hole. <i>Journal of Fluid Mechanics</i> , 2022 , 936,	3.7	1
11	Influence of Reynolds number and grid resolution on large-eddy simulations of self-similar jets based on relaxation filtering. <i>ERCOFTAC Series</i> , 2011 , 319-328	0.1	1
10	Direct Computation of Infrasound Propagation in Inhomogeneous Atmosphere Using a Low-Dispersion and Low-Dissipation Algorithm 2009 , 113-118		1
9	Large-eddy simulations of the flow and acoustic fields of a rocket jet impinging on a perforated plate 2021 ,		1
8	Flow and Acoustic Fields of Rocket Jets Impinging on a Perforated Plate. <i>AIAA Journal</i> , 1-14	2.1	0
7	Reprint of: On the importance of specifying appropriate nozzle-exit conditions in jet noise prediction. <i>Procedia IUTAM</i> , 2010 , 1, 38-43		
6	Calcul du rayonnement acoustique d'une couche de mélange à l'aide des équations d'Euler linéarisées. <i>Comptes Rendus De L'Académie De Sciences - Serie IIb: Mécanique, Physique, Chimie, Astronomie</i> , 2000 , 328, 341-347		
5	Calcul direct du rayonnement acoustique d'une couche de mélange par macrosimulation. <i>Comptes Rendus De L'Académie De Sciences - Serie IIb: Mécanique, Physique, Chimie, Astronomie</i> , 1999 , 327, 1029-1034		
4	Turbulence and energy balance in an axisymmetric jet computed by Large Eddy Simulation 2007 , 316-318		
3	Large Eddy Simulation of a Self-Preserving Turbulent Jet Using High-Order Schemes 2007 , 95-98		

- 2 Assessment of Dissipation in LES Based on Explicit Filtering from the Computation of Kinetic Energy Budget. *ERCOTAC Series*, **2008**, 81-92 0.1
- 1 A Dynamic Spatial Filtering Procedure for Shock Capturing in High-Order Computations **2009**, 417-422