

# Christophe Bogey

## 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.

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	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> , <b>2022</b> , 936,	3.7	1
144	Links Between Steepened Mach Waves and Coherent Structures for a Supersonic Jet. <i>AIAA Journal</i> , <b>2021</b> , 59, 1673-1681	2.1	3
143	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> , <b>2021</b> , 921,	3.7	10
142	Large-eddy simulations of the flow and acoustic fields of a rocket jet impinging on a perforated plate <b>2021</b> ,		1
141	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> , <b>2021</b> , 35, 229-247	2.3	6
140	Numerical investigation of wave steepening and shock coalescence near a cold Mach 3 jet. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 149, 357	2.2	8
139	Generation of Excess Noise by Jets with Highly Disturbed Laminar Boundary-Layer Profiles. <i>AIAA Journal</i> , <b>2021</b> , 59, 569-579	2.1	3
138	Acoustic shielding and interaction effects for strongly heated supersonic twin jets. <i>AIP Advances</i> , <b>2021</b> , 11, 075114	1.5	3
137	Temperature Effects on Convection Speed and Steepened Waves of Temporally Developing Supersonic Jets. <i>AIAA Journal</i> , <b>2020</b> , 58, 1227-1239	2.1	6
136	Large Eddy Simulation of Highly Compressible Jets with Tripped Boundary Layers. <i>ERCRAFTAC Series</i> , <b>2019</b> , 333-339	0.1	1
135	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> , <b>2019</b> , 876, 288-325	3.7	15
134	Steepened Mach waves near supersonic jets: study of azimuthal structure and generation process using conditional averages. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 880, 594-619	3.7	12
133	A technique of flux reconstruction at the interfaces of nonconforming grids for aeroacoustic simulations. <i>International Journal for Numerical Methods in Fluids</i> , <b>2019</b> , 91, 587-614	1.9	2
132	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> , <b>2019</b> , 4,	2.8	5
131	On noise generation in low Reynolds number temporal round jets at a Mach number of 0.9. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 859, 1022-1056	3.7	11
130	Effects of the angle of impact on the aeroacoustic feedback mechanism in supersonic impinging planar jets. <i>International Journal of Aeroacoustics</i> , <b>2019</b> , 18, 258-278	2.1	3
129	Two-dimensional features of correlations in the flow and near pressure fields of Mach number 0.9 jets <b>2019</b> ,		4

128	Simulations of viscous and compressible gas flows using high-order finite difference schemes. <i>Journal of Computational Physics</i> , <b>2018</b> , 361, 56-81	4.1	7
127	Flow Features near Plate Impinged by Ideally Expanded and Underexpanded Round Jets. <i>AIAA Journal</i> , <b>2018</b> , 56, 445-457	2.1	5
126	Oscillation Modes in Screeching Jets. <i>AIAA Journal</i> , <b>2018</b> , 56, 2918-2924	2.1	30
125	Grid sensitivity of flow field and noise of high-Reynolds-number jets computed by large-eddy simulation. <i>International Journal of Aeroacoustics</i> , <b>2018</b> , 17, 399-424	2.1	21
124	Study of the generation of shock waves by high-speed jets using conditional averaging <b>2018</b> ,		3
123	Direct numerical simulation of a temporally-developing subsonic round jet and its sound field <b>2017</b> ,		2
122	Flow Structure Oscillations and Tone Production in Underexpanded Impinging Round Jets. <i>AIAA Journal</i> , <b>2017</b> , 55, 1792-1805	2.1	24
121	Numerical Study of Temporally-Developing Supersonic Round Jets and their Sound Fields <b>2017</b> ,		1
120	Development of Compressible Large-Eddy Simulations Combining High-Order Schemes and Wall Modeling. <i>AIAA Journal</i> , <b>2017</b> , 55, 1152-1163	2.1	8
119	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> , <b>2017</b> , 16, 603-625	2.1	20
118	Feedback loop and upwind-propagating waves in ideally expanded supersonic impinging round jets. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 823, 562-591	3.7	48
117	A flux reconstruction technique for non-conforming grid interfaces in aeroacoustic simulations <b>2016</b> ,		1
116	Estimation of convection speed in underexpanded jets from schlieren pictures <b>2016</b> ,		1
115	Azimuthal organisation of turbulent structures in underexpanded impinging round jets <b>2016</b> ,		1
114	A study of the grid dependence of the flow field and noise of subsonic jets <b>2016</b> ,		2
113	Simulations of Initially Highly Disturbed Jets with Experiment-Like Exit Boundary Layers. <i>AIAA Journal</i> , <b>2016</b> , 54, 1299-1312	2.1	21
112	A numerical study of nonlinear infrasound propagation in a windy atmosphere. <i>Journal of the Acoustical Society of America</i> , <b>2016</b> , 140, 641	2.2	19
111	Investigation of tone generation in ideally expanded supersonic planar impinging jets using large-eddy simulation. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 808, 90-115	3.7	43

110	Large-eddy simulation of turbulent channel flow using relaxation filtering: Resolution requirement and Reynolds number effects. <i>Computers and Fluids</i> , <b>2015</b> , 116, 17-28	2.8	38
109	Large-eddy simulation of underexpanded round jets impinging on a flat plate 4 to 9 radii downstream from the nozzle <b>2015</b> ,		6
108	Development of compressible large-eddy simulations combining high-order schemes and wall modeling <b>2015</b> ,		5
107	Numerical modelling of jets exiting from the ASME and conical nozzles <b>2015</b> ,		2
106	Large-eddy simulation of supersonic planar jets impinging on a flat plate at an angle of 60 to 90 degrees <b>2015</b> ,		1
105	Simulation of Subsonic Turbulent Nozzle Jet Flow and Its Near-Field Sound. <i>AIAA Journal</i> , <b>2014</b> , 52, 1653-1669	2.1	19
104	Semi-Implicit Runge-Kutta Schemes: Development and Application to Compressible Channel Flow. <i>AIAA Journal</i> , <b>2014</b> , 52, 516-527	2.1	4
103	Noise of an Overexpanded Mach 3.3 Jet: Non-Linear Propagation Effects and Correlations with Flow. <i>International Journal of Aeroacoustics</i> , <b>2014</b> , 13, 607-632	2.1	28
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> , <b>2014</b> , 135, 1083-95	2.2	23
101	A study of the effects of temperature on velocity and density fluctuations in high-subsonic jets <b>2014</b> ,		1
100	Influence of nozzle-exit boundary-layer profile on high-subsonic jets <b>2014</b> ,		2
99	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> , <b>2013</b> , 25, 055106	4.4	28
98	Analysis of the dissipation and dispersion properties of the multi-domain Chebyshev pseudospectral method. <i>Journal of Computational Physics</i> , <b>2013</b> , 255, 31-47	4.1	1
97	An investigation of the mechanisms of sound generation in initially laminar subsonic jets using the Goldstein acoustic analogy. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 714, 24-57	3.7	25
96	On the performance of relaxation filtering for large-eddy simulation. <i>Journal of Turbulence</i> , <b>2013</b> , 14, 22-49	2.1	55
95	Numerical investigation of temperature effects on properties of subsonic turbulent jets <b>2013</b> ,		7
94	Influence of resolution and Reynolds number on large-eddy simulations of channel flow using relaxation filtering <b>2013</b> ,		1
93	Investigation of flow features and acoustic radiation of a round cavity. <i>Journal of Sound and Vibration</i> , <b>2012</b> , 331, 3521-3543	3.9	22

92	Effects of moderate Reynolds numbers on subsonic round jets with highly disturbed nozzle-exit boundary layers. <i>Physics of Fluids</i> , <b>2012</b> , 24, 105107	4.4	45
91	Investigation of flow features around shallow round cavities subject to subsonic grazing flow. <i>Physics of Fluids</i> , <b>2012</b> , 24, 125107	4.4	9
90	Depth effects on the flow features and noise signature of shallow cylindrical cavities at a Mach number of 0.25 <b>2012</b> ,		3
89	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> , <b>2012</b> , 701, 352-385	3.7	114
88	Flow and sound fields of initially tripped jets at Reynolds numbers ranging from 25,000 to 200,000 <b>2012</b> ,		2
87	Effects of initial shear-layer thickness on turbulent subsonic jets at moderate Reynolds numbers <b>2012</b> ,		2
86	Elucidating the source mechanism associated with downstream radiation in subsonic jets. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 710, 606-640	3.7	39
85	A computational study of the effects of nozzle-exit turbulence level on the flow and acoustic fields of a subsonic jet <b>2011</b> ,		10
84	Filter shape dependence and effective scale separation in large-eddy simulations based on relaxation filtering. <i>Computers and Fluids</i> , <b>2011</b> , 47, 65-74	2.8	25
83	Finite differences for coarse azimuthal discretization and for reduction of effective resolution near origin of cylindrical flow equations. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 1134-1146	4.1	62
82	Computation of the noise of initially laminar jets using a statistical approach for the acoustic analogy: application and discussion <b>2011</b> ,		3
81	On the spectra of nozzle-exit velocity disturbances in initially nominally turbulent, transitional jets. <i>Physics of Fluids</i> , <b>2011</b> , 23, 091702	4.4	19
80	Investigation of a High-Mach-Number Overexpanded Jet Using Large-Eddy Simulation. <i>AIAA Journal</i> , <b>2011</b> , 49, 2171-2182	2.1	45
79	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> , <b>2011</b> , 23, 035104	4.4	115
78	Influence of Reynolds number and grid resolution on large-eddy simulations of self-similar jets based on relaxation filtering. <i>ERCOFTAC Series</i> , <b>2011</b> , 319-328	0.1	1
77	Modelling of Sound Generation by Turbulent Reacting Flows. <i>International Journal of Aeroacoustics</i> , <b>2010</b> , 9, 461-489	2.1	20
76	Influence of nozzle-exit boundary-layer conditions on the flow and acoustic fields of initially laminar jets. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 663, 507-538	3.7	167
75	Development of Noncentered Wavenumber-Based Optimized Interpolation Schemes with Amplification Control for Overlapping Grids. <i>SIAM Journal of Scientific Computing</i> , <b>2010</b> , 32, 2074-2098	2.6	7

74	Flow and acoustic fields of Reynolds number 10 5, subsonic jets with tripped exit boundary layers <b>2010</b> ,			5
73	Direct Noise Computation of a Shocked and Heated Jet at a Mach Number of 3.30 <b>2010</b> ,			6
72	Jet Turbulence Characteristics Associated with Downstream and Sideline Sound Emission <b>2010</b> ,			1
71	Numerical Investigation of Flow Features and Acoustic Radiation of a Round Cavity <b>2010</b> ,			2
70	Progress in Direct Noise Computation. <i>International Journal of Aeroacoustics</i> , <b>2010</b> , 9, 123-143	2.1		27
69	On the importance of specifying appropriate nozzle-exit conditions in jet noise prediction. <i>Procedia Engineering</i> , <b>2010</b> , 6, 38-43			2
68	Reprint of: On the importance of specifying appropriate nozzle-exit conditions in jet noise prediction. <i>Procedia IUTAM</i> , <b>2010</b> , 1, 38-43			
67	Progress in Direct Noise Computation. <i>Noise Notes</i> , <b>2010</b> , 9, 31-48			5
66	A Study of the Influence of the Reynolds Number on Jet Self-Similarity Using Large-Eddy Simulation. <i>ERCRAFTAC Series</i> , <b>2010</b> , 11-16	0.1		3
65	Numerical study of eigenmode forcing effects on jet flow development and noise generation mechanisms. <i>Physics of Fluids</i> , <b>2009</b> , 21, 045106	4.4		24
64	Simulation of a hot coaxial jet: Direct noise prediction and flow-acoustics correlations. <i>Physics of Fluids</i> , <b>2009</b> , 21, 035105	4.4		61
63	Turbulence and energy budget in a self-preserving round jet: direct evaluation using large eddy simulation. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 627, 129-160	3.7		136
62	A shock-capturing methodology based on adaptative spatial filtering for high-order non-linear computations. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 1447-1465	4.1		225
61	Influence of the Nozzle-Exit Boundary-Layer Thickness on the Flow and Acoustic Fields of Initially Laminar Jets <b>2009</b> ,			7
60	Numerical Simulation of Supersonic Jet Noise. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2009</b> , 29-46	0.3		5
59	A Dynamic Spatial Filtering Procedure for Shock Capturing in High-Order Computations <b>2009</b> , 417-422			
58	Direct Computation of Infrasound Propagation in Inhomogeneous Atmosphere Using a Low-Dispersion and Low-Dissipation Algorithm <b>2009</b> , 113-118			1
57	Investigation of flow features and acoustic radiation of a round cavity. <b>2008</b> ,			6

56	Self-Adjusting Shock-Capturing Spatial Filtering for High-Order Non-Linear Computations <b>2008</b> ,		6
55	Investigation using statistical closure theory of the influence of the filter shape on scale separation in large-eddy simulation. <i>Journal of Turbulence</i> , <b>2008</b> , 9, N21	2.1	2
54	Direct Noise Computation of the Turbulent Flow Around a Zero-Incidence Airfoil. <i>AIAA Journal</i> , <b>2008</b> , 46, 874-883	2.1	69
53	Direct Computation of the Noise Generated by Subsonic Jets Originating from a Straight Pipe Nozzle. <i>International Journal of Aeroacoustics</i> , <b>2008</b> , 7, 1-21	2.1	34
52	A study of differentiation errors in large-eddy simulations based on the EDQNM theory. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 8314-8340	4.1	11
51	Direct simulation of isolated elliptic vortices and of their radiated noise. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2008</b> , 22, 65-82	2.3	3
50	Assessment of Dissipation in LES Based on Explicit Filtering from the Computation of Kinetic Energy Budget. <i>ERCOTAC Series</i> , <b>2008</b> , 81-92	0.1	
49	Analysis of Numerical Error Reduction in Explicitly Filtered LES Using Two-Point Turbulence Closure. <i>ERCOTAC Series</i> , <b>2008</b> , 143-154	0.1	2
48	An analysis of the correlations between the turbulent flow and the sound pressure fields of subsonic jets. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 583, 71-97	3.7	140
47	High-order, low dispersive and low dissipative explicit schemes for multiple-scale and boundary problems. <i>Journal of Computational Physics</i> , <b>2007</b> , 224, 637-662	4.1	163
46	On the application of explicit spatial filtering to the variables or fluxes of linear equations. <i>Journal of Computational Physics</i> , <b>2007</b> , 225, 1211-1217	4.1	18
45	Numerical study of screech generation in a planar supersonic jet. <i>Physics of Fluids</i> , <b>2007</b> , 19, 075105	4.4	79
44	Experimental Study of the Spectral Properties of Near-Field and Far-Field Jet Noise. <i>International Journal of Aeroacoustics</i> , <b>2007</b> , 6, 73-92	2.1	64
43	Direct Computation of the Noise Generated by a Hot Coaxial Jet <b>2007</b> ,		4
42	Turbulence and energy balance in an axisymmetric jet computed by Large Eddy Simulation <b>2007</b> , 316-318		
41	Large Eddy Simulation of a Self-Preserving Turbulent Jet Using High-Order Schemes <b>2007</b> , 95-98		
40	Large eddy simulations of round free jets using explicit filtering with/without dynamic Smagorinsky model. <i>International Journal of Heat and Fluid Flow</i> , <b>2006</b> , 27, 603-610	2.4	90
39	Large eddy simulations of transitional round jets: Influence of the Reynolds number on flow development and energy dissipation. <i>Physics of Fluids</i> , <b>2006</b> , 18, 065101	4.4	156

38	Computation of the Noise Radiated by Jets with Laminar/Turbulent Nozzle-Exit Conditions <b>2006</b> ,		14
37	Large Eddy Simulation of Screech Tone Generation in a Planar Underexpanded Jet <b>2006</b> ,		17
36	Experimental Study of the Properties of Near-Field and Far-Field Jet Noise <b>2006</b> ,		5
35	Direct Noise Computation around a 3-D NACA 0012 airfoil <b>2006</b> ,		7
34	Low-dissipation and low-dispersion fourth-order Runge-Kutta algorithm. <i>Computers and Fluids</i> , <b>2006</b> , 35, 1459-1463	2.8	132
33	Computation of a high Reynolds number jet and its radiated noise using large eddy simulation based on explicit filtering. <i>Computers and Fluids</i> , <b>2006</b> , 35, 1344-1358	2.8	109
32	Investigation of downstream and sideline subsonic jet noise using Large Eddy Simulation. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2006</b> , 20, 23-40	2.3	68
31	Effects of Inflow Conditions and Forcing on Subsonic Jet Flows and Noise.. <i>AIAA Journal</i> , <b>2005</b> , 43, 1000-1007		139
30	Noise Radiated by a High-Reynolds-number 3-D Airfoil <b>2005</b> ,		5
29	Investigation of sound sources in subsonic jets using causality methods on LES data <b>2005</b> ,		16
28	Some useful hybrid approaches for predicting aerodynamic noise. <i>Comptes Rendus - Mecanique</i> , <b>2005</b> , 333, 666-675	2.1	11
27	Decrease of the Effective Reynolds Number with Eddy-Viscosity Subgrid Modeling. <i>AIAA Journal</i> , <b>2005</b> , 43, 437-439	2.1	60
26	HIGH-ORDER CURVILINEAR SIMULATIONS OF FLOWS AROUND NON-CARTESIAN BODIES. <i>Journal of Computational Acoustics</i> , <b>2005</b> , 13, 731-748		33
25	A family of low dispersive and low dissipative explicit schemes for flow and noise computations. <i>Journal of Computational Physics</i> , <b>2004</b> , 194, 194-214	4.1	618
24	Contributions of Computational Aeroacoustics to Jet Noise Research and Prediction. <i>International Journal of Computational Fluid Dynamics</i> , <b>2004</b> , 18, 481-491	1.2	49
23	High-order Curvilinear Simulations of Flows Around Non-Cartesian Bodies <b>2004</b> ,		3
22	Optimized Explicit Schemes: Matching and Boundary Schemes, and 4th-order Runge-Kutta Algorithm <b>2004</b> ,		8
21	Investigation of Subsonic Jet Noise Using LES: Mach and Reynolds Number Effects <b>2004</b> ,		21

20	Selective Filtering Versus Eddy Viscosity for Subgrid Modelling in the LES of a Subsonic Jet. <i>ERCFTAC Series</i> , <b>2004</b> , 23-30	0.1	5
19	Illustration of the Inclusion of Sound-Flow Interactions in Lighthill's Equation. <i>AIAA Journal</i> , <b>2003</b> , 41, 1604-1606	2.1	15
18	Numerical Evidence of Mode Switching in the Flow-Induced Oscillations by a Cavity. <i>International Journal of Aeroacoustics</i> , <b>2003</b> , 2, 193-217	2.1	50
17	Noise Investigation of a High Subsonic, Moderate Reynolds Number Jet Using a Compressible Large Eddy Simulation. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2003</b> , 16, 273-297	2.3	271
16	LES of a High Reynolds, High Subsonic Jet: Effects of the Inflow Conditions on Flow and Noise <b>2003</b> ,		22
15	Numerical Investigation of the Coexistence of Multiple Tones in Flow-induced Cavity Noise <b>2003</b> ,		5
14	LES of a High Reynolds, High Subsonic Jet: Effects of the Subgrid Modellings on Flow and Noise <b>2003</b> ,		14
13	Downstream subsonic jet noise: link with vortical structures intruding into the jet core. <i>Comptes Rendus - Mecanique</i> , <b>2002</b> , 330, 527-533	2.1	5
12	Aerodynamic Noise Induced by Laminar and Turbulent Boundary Layers over Rectangular Cavities <b>2002</b> ,		18
11	Computation of Flow Noise Using Source Terms in Linearized Euler's Equations. <i>AIAA Journal</i> , <b>2002</b> , 40, 235-243	2.1	151
10	Noise computation using Lighthill's equation with inclusion of mean flow-acoustics interactions <b>2001</b> ,		10
9	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: Mecanique, Physique, Chimie, Astronomie</i> , <b>2000</b> , 328, 341-347		
8	Numerical Simulation of Sound Generated by Vortex Pairing in a Mixing Layer. <i>AIAA Journal</i> , <b>2000</b> , 38, 2210-2218	2.1	72
7	Computation of the sound radiated by a 3-D jet using large eddy simulation <b>2000</b> ,		33
6	Computation of flow noise using source terms in linearized Euler's equations <b>2000</b> ,		15
5	Calcul direct du rayonnement acoustique d'une couche de mélange par macrosimulation. <i>Comptes Rendus De L'Académie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie</i> , <b>1999</b> , 327, 1029-1034		
4	Intermittency and Stochastic Modeling of Low- and High-Reynolds-Number Compressible Jets. <i>AIAA Journal</i> , 1-8	2.1	2
3	Imprint of Vortical Structures on the Near-Field Pressure of a Turbulent Jet. <i>AIAA Journal</i> , 1-14	2.1	3

2	Tones in the Acoustic Far Field of Jets in the Upstream Direction. <i>AIAA Journal</i> ,1-10	2.1	2
1	Flow and Acoustic Fields of Rocket Jets Impinging on a Perforated Plate. <i>AIAA Journal</i> ,1-14	2.1	0