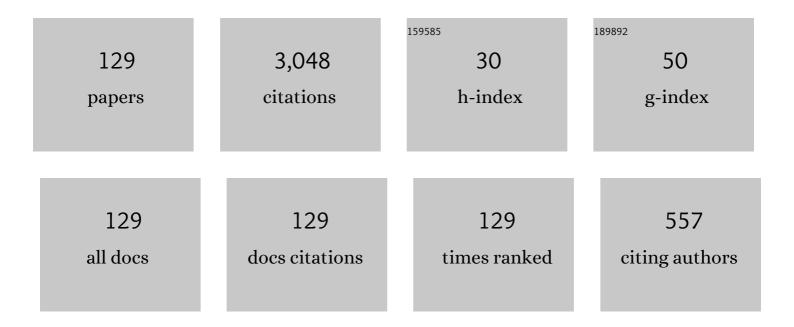
André Cavalieri

List of Publications by Year in descending order

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ΔΝΙΠΡΑΘΟΛΛΛΙΙΕΡΙ

#	Article	IF	CITATIONS
1	Absolute instability in shock-containing jets. Journal of Fluid Mechanics, 2022, 930, .	3.4	22
2	Resolvent-based tools for optimal estimation and control via the Wiener–Hopf formalism. Journal of Fluid Mechanics, 2022, 937, .	3.4	15
3	Resolvent-based tools for optimal estimation and control via the Wiener–Hopf formalism – ERRATUM. Journal of Fluid Mechanics, 2022, 938, .	3.4	Ο
4	Wave cancellation in jets with laminar and turbulent boundary layers: The effect of nonlinearity. Physical Review Fluids, 2022, 7, .	2.5	3
5	Jet Installation Noise Modeling in Static and Flight Conditions Using Centerline Fluctuations. AIAA Journal, 2022, 60, 3620-3634.	2.6	6
6	Self-similar mechanisms in wall turbulence studied using resolvent analysis. Journal of Fluid Mechanics, 2022, 939, .	3.4	16
7	Acoustic Scattering by Laminated Plates with Viscoelastic Layers. AIAA Journal, 2022, 60, 2469-2480.	2.6	0
8	Transition to chaos in a reduced-order model of a shear layer. Journal of Fluid Mechanics, 2022, 932, .	3.4	6
9	Dynamics of shear-layer coherent structures in a forced wall-bounded flow. Journal of Fluid Mechanics, 2021, 907, .	3.4	5
10	The colour of forcing statistics in resolvent analyses of turbulent channel flows. Journal of Fluid Mechanics, 2021, 907, .	3.4	41
11	Forcing statistics in resolvent analysis: application in minimal turbulent Couette flow. Journal of Fluid Mechanics, 2021, 908, .	3.4	34
12	Cross proper orthogonal decomposition. Physical Review Fluids, 2021, 6, .	2.5	3
13	Experimental control of Tollmien–Schlichting waves using pressure sensors and plasma actuators. Experiments in Fluids, 2021, 62, 1.	2.4	8
14	The effect of streaks on the instability of jets. Journal of Fluid Mechanics, 2021, 910, .	3.4	8
15	Stochastic linear modes in a turbulent channel flow. Journal of Fluid Mechanics, 2021, 912, .	3.4	8
16	Amplitude Scaling of Wave Packets in Turbulent Jets. AIAA Journal, 2021, 59, 559-568.	2.6	5
17	Structure interactions in a reduced-order model for wall-bounded turbulence. Physical Review Fluids, 2021, 6, .	2.5	8
18	Efficient computation of global resolvent modes. Journal of Fluid Mechanics, 2021, 919, .	3.4	20

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#	Article	IF	CITATIONS
19	Wavepacket modelling of broadband shock-associated noise in supersonic jets. Journal of Fluid Mechanics, 2021, 918, .	3.4	10
20	Optimal control for colistin dosage selection. Journal of Pharmacokinetics and Pharmacodynamics, 2021, 48, 803-813.	1.8	6
21	Causality in the shock wave/turbulent boundary layer interaction. Physical Review Fluids, 2021, 6, .	2.5	11
22	Nozzle dynamics and wavepackets in turbulent jets. Journal of Fluid Mechanics, 2021, 923, .	3.4	13
23	On the relation between the self-excited three-dimensionality of laminar separation bubbles and their receptivity to external disturbances. , 2021, , .		0
24	A randomized time-domain algorithm for efficiently computing resolvent modes. , 2021, , .		4
25	Resolvent-based estimation of turbulent channel flow using wall measurements. Journal of Fluid Mechanics, 2021, 927, .	3.4	18
26	Spanwise-coherent hydrodynamic waves around flat plates and airfoils. Journal of Fluid Mechanics, 2021, 927, .	3.4	14
27	Real-time reactive control of stochastic disturbances in forced turbulent jets. Physical Review Fluids, 2021, 6, .	2.5	14
28	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
29	On the role of actuation for the control of streaky structures in boundary layers. Journal of Fluid Mechanics, 2020, 883, .	3.4	15
30	Resolvent modelling of near-wall coherent structures in turbulent channel flow. International Journal of Heat and Fluid Flow, 2020, 85, 108662.	2.4	23
31	Spectral proper orthogonal decomposition and resolvent analysis of near-wall coherent structures in turbulent pipe flows. Journal of Fluid Mechanics, 2020, 900, .	3.4	48
32	Resolvent-based optimal estimation of transitional and turbulent flows. Journal of Fluid Mechanics, 2020, 900, .	3.4	31
33	Ambiguity in mean-flow-based linear analysis. Journal of Fluid Mechanics, 2020, 900, .	3.4	19
34	Lift-up, Kelvin–Helmholtz and Orr mechanisms in turbulent jets. Journal of Fluid Mechanics, 2020, 896,	3.4	49
35	Flight Effects on Turbulent-Jet Wave Packets. AIAA Journal, 2020, 58, 3877-3888.	2.6	5
36	Actuator and sensor placement for closed-loop control of convective instabilities. Theoretical and Computational Fluid Dynamics, 2020, 34, 619-641.	2.2	4

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37	A realizable data-driven approach to delay bypass transition with control theory. Journal of Fluid Mechanics, 2020, 883, .	3.4	13
38	Resolvent analysis in unbounded flows: role of free-stream modes. Theoretical and Computational Fluid Dynamics, 2020, 34, 163-176.	2.2	6
39	Spatial stability analysis of subsonic corrugatedÂjets. Journal of Fluid Mechanics, 2019, 876, 766-791.	3.4	17
40	Two-point wavepacket modelling of jet noise. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190199.	2.1	13
41	Acoustic radiation of subsonic jets in the vicinity of an inclined flat plate. Journal of the Acoustical Society of America, 2019, 146, 50-59.	1.1	20
42	Effects of structural damping on acoustic scattering by flexible plates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190285.	2.1	0
43	Large-scale streaky structures in turbulent jets. Journal of Fluid Mechanics, 2019, 873, 211-237.	3.4	46
44	Acoustic modes in jet and wake stability. Journal of Fluid Mechanics, 2019, 867, 804-834.	3.4	13
45	Acoustically Informed Statistics for Wave-Packet Models. AIAA Journal, 2019, 57, 2421-2434.	2.6	27
46	Wave-Packet Models for Jet Dynamics and Sound Radiation. Applied Mechanics Reviews, 2019, 71, .	10.1	80
47	Transfer functions for flow predictions in wall-bounded turbulence. Journal of Fluid Mechanics, 2019, 864, 708-745.	3.4	26
48	On the modelling of wavepacket scattering noise with coherence effects. Journal of the Acoustical Society of America, 2019, 146, 4472-4480.	1.1	5
49	Thermoacoustic analysis of combustion chambers with varying temperature: Numerical solutions and comparison with experiments. International Journal of Aeroacoustics, 2019, 18, 351-367.	1.3	Ο
50	Resolvent-based modeling of coherent wave packets in a turbulent jet. Physical Review Fluids, 2019, 4, .	2.5	67
51	Trailing-edge noise from the scattering of spanwise-coherent structures. Physical Review Fluids, 2019, 4, .	2.5	23
52	Proper Orthogonal Decomposition and Spectral Analysis of a Wall-Mounted Square Cylinder Wake. Journal of Aerospace Technology and Management, 2018, 10, .	0.3	3
53	Acoustic scattering by finite composite plates. Journal of the Acoustical Society of America, 2018, 144, 1170-1179.	1.1	4
54	Closed-loop control of a free shear flow: a framework using the parabolized stability equations. Theoretical and Computational Fluid Dynamics, 2018, 32, 765-788.	2.2	22

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55	On the wave-cancelling nature of boundary layer flow control. Theoretical and Computational Fluid Dynamics, 2018, 32, 593-616.	2.2	18
56	A fast numerical framework to compute acoustic scattering by poroelastic plates of arbitrary geometry. Journal of Computational Physics, 2018, 373, 763-783.	3.8	14
57	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. Journal of Fluid Mechanics, 2018, 851, 83-124.	3.4	154
58	Passive control of coherent structures in a modified backwards-facing step flow. Experiments in Fluids, 2018, 59, 1.	2.4	4
59	Jet–flap interaction tones. Journal of Fluid Mechanics, 2018, 853, 333-358.	3.4	90
60	A model problem for sound radiation by an installed jet. Journal of Sound and Vibration, 2017, 391, 95-115.	3.9	44
61	Real-time modelling of wavepackets inÂturbulentÂjets. Journal of Fluid Mechanics, 2017, 821, 458-481.	3.4	43
62	Sensitivity of wavepackets in jets to nonlinear effects: the role of the critical layer. Journal of Fluid Mechanics, 2017, 811, 95-137.	3.4	53
63	High-frequency wavepackets in turbulent jets. Journal of Fluid Mechanics, 2017, 830, .	3.4	32
64	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
65	Acoustic resonance in the potential core of subsonic jets. Journal of Fluid Mechanics, 2017, 825, 1113-1152.	3.4	125
66	Two-point coherence of wave packets in turbulent jets. Physical Review Fluids, 2017, 2, .	2.5	39
67	Turbulent jet noise in the absence of coherent structures. Physical Review Fluids, 2017, 2, .	2.5	7
68	Wave packets and Orr mechanism in turbulent jets. Physical Review Fluids, 2017, 2, .	2.5	16
69	Experimental study of turbulent-jet wave packets and their acoustic efficiency. Physical Review Fluids, 2017, 2, .	2.5	20
70	Scattering of turbulent-jet wavepackets by a swept trailing edge. Journal of the Acoustical Society of America, 2016, 140, 4350-4359.	1.1	49
71	Jet-noise control by fluidic injection from a rotating plug: linear and nonlinear sound-sourceÂmechanisms. Journal of Fluid Mechanics, 2016, 788, 358-380.	3.4	24
72	Numerical solution of acoustic scattering by finite perforated elastic plates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150767.	2.1	39

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73	A model problem for sound radiation by an installed jet. , 2016, , .		2
74	Effects of coherence on jet-surface interaction noise. , 2016, , .		2
75	Stochastic and harmonic optimal forcing in subsonic jets. , 2016, , .		20
76	Jet noise reduction through filtering small-scale structures. , 2016, , .		1
77	Trapped acoustic waves in the potential core of subsonic jets. , 2016, , .		10
78	High-frequency wavepackets in turbulent jets. , 2016, , .		2
79	Two-point coherence of wavepackets in turbulent jets. , 2016, , .		3
80	Scattering of turbulent-jet wavepackets by a flexible composite plate. , 2016, , .		2
81	Closed-loop control of wavepackets in a free shear-flow. , 2016, , .		8
82	PSE-based prediction of sound radiation by installed jets. , 2016, , .		6
83	Extracting Coherent Structures to Explore the Minimum Jet Noise. , 2016, , 358-366.		2
84	A comparison of data reduction techniques for the aeroacoustic analysis of flow over a blunt flat plate. Theoretical and Computational Fluid Dynamics, 2016, 30, 253-274.	2.2	2
85	A coherence-matched linear source mechanism for subsonic jet noise. Journal of Fluid Mechanics, 2015, 776, 235-267.	3.4	48
86	A study of mechanisms of sound generation by airfoils using flow-acoustic correlations. , 2015, , .		0
87	A Control Framework for Wavepackets in Turbulent Jets Using Time-Domain Transfer Functions. , 2015, , .		1
88	Scattering of turbulent-jet wavepackets by a swept trailing edge. , 2015, , .		15
89	Spatial stability characteristics of non-circular jets. , 2015, , .		3
90	Sound and Sources of Sound in a Model Problem with Wake Interaction. AIAA Journal, 2015, 53, 2588-2606.	2.6	8

#	Article	IF	CITATIONS
91	A fast numerical framework for acoustic scattering by 3D poroelastic plates. , 2015, , .		3
92	Acoustic scattering by finite composite plates. , 2015, , .		5
93	Dual-plane, time-resolved, stereo PIV for wavepacket eduction in a turbulent subsonic jet. , 2015, , .		1
94	Stochastic and nonlinear forcing of wavepackets in a Mach 0.9 jet. , 2015, , .		28
95	A study of linear wavepacket models for subsonic turbulent jets using local eigenmode decomposition of PIV data. European Journal of Mechanics, B/Fluids, 2015, 49, 308-321.	2.5	36
96	Just enough jitter for jet noise?. , 2014, , .		13
97	The Effect of Base-Flow Changes on Kelvin-Helmholtz Instability and Noise Radiation in Jets. , 2014, , .		1
98	A coherence-matched linear model for subsonic jet noise. , 2014, , .		4
99	Acoustic scattering by finite poroelastic plates. , 2014, , .		16
100	Scattering of wavepackets by a flat plate in the vicinity of a turbulent jet. Journal of Sound and Vibration, 2014, 333, 6516-6531.	3.9	103
101	Coherence decay and its impact on sound radiation by wavepackets. Journal of Fluid Mechanics, 2014, 748, 399-415.	3.4	70
102	The effect of base-flow changes in Kelvin-Helmholtz instability. , 2013, , .		3
103	Wavepackets in the velocity field of turbulent jets. Journal of Fluid Mechanics, 2013, 730, 559-592.	3.4	204
104	Farfield filtering and source imaging of subsonic jet noise. Journal of Sound and Vibration, 2013, 332, 4067-4088.	3.9	44
105	Nonlinear and linear noise source mechanisms in subsonic jets. , 2013, , .		8
106	Near-field Wavepackets and the Far-field Sound of a Subsonic Jet. , 2013, , .		29
107	Wavepacket eduction in turbulent jets based on eigenmode decomposition of PIV data. , 2013, , .		2
108	Jet-noise control by fluidic injection from a rotating plug: linear and non-linear sound source		2

mechanisms., 2013,,.

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109	Low-speed jet dynamics and sound radiation. , 2012, , .		Ο
110	Wavepackets in the velocity field of turbulent jets. , 2012, , .		9
111	Educing the source mechanism associated with downstream radiation in subsonic jets. Journal of Fluid Mechanics, 2012, 710, 606-640.	3.4	52
112	Analysis of compressible potential flow over aerofoils using the dual reciprocity method. Aeronautical Journal, 2012, 116, 391-406.	1.6	0
113	Scattering of wavepackets by a flat plate in the vicinity of a turbulent jet. , 2012, , .		7
114	Axisymmetric superdirectivity in subsonic jets. Journal of Fluid Mechanics, 2012, 704, 388-420.	3.4	180
115	Axisymmetric superdirectivity in subsonic jets. , 2011, , .		11
116	Intermittency of the azimuthal components of the sound radiated by subsonic jets. , 2011, , .		5
117	Parabolized stability equation models for predicting large-scale mixing noise of turbulent round jets. , 2011, , .		7
118	Farfield filtering of subsonic jet noise: Mach and Temperature effects. , 2011, , .		6
119	Jittering wave-packet models for subsonic jet noise. Journal of Sound and Vibration, 2011, 330, 4474-4492.	3.9	158
120	Using large eddy simulation to explore sound-source mechanisms in jets. Journal of Sound and Vibration, 2011, 330, 4098-4113.	3.9	61
121	Reprint of: Using LES to explore sound-source mechanisms in jets. Procedia IUTAM, 2010, 1, 104-113.	1.2	2
122	Using LES to explore sound-source mechanisms in jets. Procedia Engineering, 2010, 6, 104-113.	1.2	3
123	Intermittent sound generation and its control in a free-shear flow. Physics of Fluids, 2010, 22, .	4.0	51
124	Farfield Filtering and Source-Imaging for the Study of Jet Noise. , 2010, , .		14
125	Jittering Wave-Packet Models for Subsonic Jet Noise. , 2010, , .		9
126	Intermittent Sound Generation in a Free-Shear Flow. , 2010, , .		3

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#	Article	IF	CITATIONS
127	Tail and Control Surface Sizing for UAVs. , 2007, , .		3
128	Analysis of Compressible Potential Flow Over Airfoils Using the Dual Reciprocity Method. , 2007, , .		1
129	On the Calculation of an UAV's Response to Elevator Deflection. , 2007, , .		1