

Peter Jordan

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72
papers

2,357
citations

27
h-index

47
g-index

89
ext. papers

3,176
ext. citations

3.7
avg, IF

5.45
L-index

#	Paper	IF	Citations
72	Wave Packets and Turbulent Jet Noise. <i>Annual Review of Fluid Mechanics</i> , 2013 , 45, 173-195	2.2	332
71	The near pressure field of co-axial subsonic jets. <i>Journal of Fluid Mechanics</i> , 2008 , 611, 175-204	3.7	175
70	Wavepackets in the velocity field of turbulent jets. <i>Journal of Fluid Mechanics</i> , 2013 , 730, 559-592	3.7	146
69	Axisymmetric superdirectivity in subsonic jets. <i>Journal of Fluid Mechanics</i> , 2012 , 704, 388-420	3.7	130
68	Jittering wave-packet models for subsonic jet noise. <i>Journal of Sound and Vibration</i> , 2011 , 330, 4474-4493	3.9	120
67	On spectral linear stochastic estimation. <i>Experiments in Fluids</i> , 2006 , 41, 763-775	2.5	101
66	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. <i>Journal of Fluid Mechanics</i> , 2018 , 851, 83-124	3.7	83
65	Acoustic resonance in the potential core of subsonic jets. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 1113-1152	3.7	71
64	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure eduction and global stability. <i>Journal of Fluid Mechanics</i> , 2017 , 825, 1153-1181	3.7	66
63	Scattering of wavepackets by a flat plate in the vicinity of a turbulent jet. <i>Journal of Sound and Vibration</i> , 2014 , 333, 6516-6531	3.9	65
62	Subsonic jet aeroacoustics: associating experiment, modelling and simulation. <i>Experiments in Fluids</i> , 2007 , 44, 1-21	2.5	62
61	Two-point laser Doppler velocimetry measurements in a Mach 1.2 cold supersonic jet for statistical aeroacoustic source model. <i>Experiments in Fluids</i> , 2004 , 37, 419-437	2.5	60
60	Upstream-travelling acoustic jet modes as a closure mechanism for screech. <i>Journal of Fluid Mechanics</i> , 2018 , 855,	3.7	47
59	Jet/flap interaction tones. <i>Journal of Fluid Mechanics</i> , 2018 , 853, 333-358	3.7	45
58	Using large eddy simulation to explore sound-source mechanisms in jets. <i>Journal of Sound and Vibration</i> , 2011 , 330, 4098-4113	3.9	45
57	Intermittent sound generation and its control in a free-shear flow. <i>Physics of Fluids</i> , 2010 , 22, 115113	4.4	43
56	Educing the source mechanism associated with downstream radiation in subsonic jets. <i>Journal of Fluid Mechanics</i> , 2012 , 710, 606-640	3.7	39

55	Wave-Packet Models for Jet Dynamics and Sound Radiation. <i>Applied Mechanics Reviews</i> , 2019 , 71,	8.6	37
54	Screech-tone prediction using upstream-travelling jet modes. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	37
53	Real-time modelling of wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2017 , 821, 458-481	3.7	36
52	Sensitivity of wavepackets in jets to nonlinear effects: the role of the critical layer. <i>Journal of Fluid Mechanics</i> , 2017 , 811, 95-137	3.7	36
51	The frequency dependence of jet turbulence for noise source modelling. <i>Journal of Sound and Vibration</i> , 2006 , 296, 209-225	3.9	33
50	Farfield filtering and source imaging of subsonic jet noise. <i>Journal of Sound and Vibration</i> , 2013 , 332, 4067-4088	3.9	31
49	Modelling self- and shear-noise mechanisms in inhomogeneous, anisotropic turbulence. <i>Journal of Sound and Vibration</i> , 2005 , 279, 529-555	3.9	30
48	Resolvent-based modeling of coherent wave packets in a turbulent jet. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	30
47	Large eddy simulation for jet noise: the importance of getting the boundary layer right 2015 ,		29
46	Scattering of turbulent-jet wavepackets by a swept trailing edge. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 4350	2.2	28
45	Extremum-Seeking Control of Jet Noise. <i>International Journal of Aeroacoustics</i> , 2012 , 11, 459-473	2.1	27
44	A study of linear wavepacket models for subsonic turbulent jets using local eigenmode decomposition of PIV data. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 308-321	2.4	25
43	On least-order flow representations for aerodynamics and aeroacoustics. <i>Journal of Fluid Mechanics</i> , 2012 , 697, 367-398	3.7	25
42	Two-point coherence of wave packets in turbulent jets. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	25
41	High-frequency wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2017 , 830,	3.7	24
40	A model problem for sound radiation by an installed jet. <i>Journal of Sound and Vibration</i> , 2017 , 391, 95-115	3.9	22
39	Stochastic and nonlinear forcing of wavepackets in a Mach 0.9 jet 2015 ,		21
38	Jet-noise control by fluidic injection from a rotating plug: linear and nonlinear sound-source mechanisms. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 358-380	3.7	16

37	Modeling of coherent structures in a turbulent jet as global linear instability wavepackets: Theory and experiment. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 62, 24-32	2.4	15
36	Large-scale streaky structures in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2019 , 873, 211-237	3.7	14
35	Waves in screeching jets. <i>Journal of Fluid Mechanics</i> , 2021 , 913,	3.7	14
34	Closed-loop control of a free shear flow: a framework using the parabolized stability equations. <i>Theoretical and Computational Fluid Dynamics</i> , 2018 , 32, 765-788	2.3	14
33	Stochastic and harmonic optimal forcing in subsonic jets 2016 ,		12
32	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound 2016 ,		12
31	Just enough jitter for jet noise? 2014 ,		12
30	Wave packets and Orr mechanism in turbulent jets. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	11
29	Experimental study of turbulent-jet wave packets and their acoustic efficiency. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	11
28	Experimental study of shock-cell noise in underexpanded supersonic jets 2013 ,		9
27	Resolvent-based optimal estimation of transitional and turbulent flows. <i>Journal of Fluid Mechanics</i> , 2020 , 900,	3.7	9
26	Ambiguity in mean-flow-based linear analysis. <i>Journal of Fluid Mechanics</i> , 2020 , 900,	3.7	8
25	Closed-loop control of wavepackets in a free shear-flow 2016 ,		7
24	Impact of coherence decay on wavepacket models for broadband shock-associated noise in supersonic jets. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 969-993	3.7	6
23	Modal and non-modal linear wavepacket dynamics in turbulent jets 2017 ,		5
22	Acoustic modes in jet and wake stability. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 804-834	3.7	5
21	Two-point wavepacket modelling of jet noise. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190199	2.4	4
20	Resolvent-based jet noise models: a projection approach 2020 ,		4

19	Dynamics of round jet impingement 2019 ,		4
18	Modulation of downstream-propagating waves in aeroacoustic resonance 2019 ,		4
17	Amplitude Scaling of Wave Packets in Turbulent Jets. <i>AIAA Journal</i> , 2021 , 59, 559-568	2.1	4
16	Jet-noise reduction: the effect of azimuthal actuation modes 2016 ,		3
15	Azimuthal decomposition of the radiated noise from supersonic shock-containing jets. <i>Journal of the Acoustical Society of America</i> , 2020 , 148, 2015	2.2	3
14	Wavepacket modelling of broadband shock-associated noise in supersonic jets. <i>Journal of Fluid Mechanics</i> , 2021 , 918,	3.7	3
13	Resolvent-based estimation of turbulent channel flow using wall measurements. <i>Journal of Fluid Mechanics</i> , 2021 , 927,	3.7	3
12	A Parabolised Stability Equation based Broadband Shock-Associated Noise Model 2019 ,		2
11	A model problem for sound radiation by an installed jet 2016 ,		2
10	Effects of coherence on jet-surface interaction noise 2016 ,		2
9	Absolute instability in shock-containing jets. <i>Journal of Fluid Mechanics</i> , 2022 , 930,	3.7	2
8	Nozzle dynamics and wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , 2021 , 923,	3.7	2
7	Reflection coefficients and screech-tone prediction in supersonic jets 2019 ,		2
6	Real-time reactive control of stochastic disturbances in forced turbulent jets. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	1
5	A complex-valued resonance model for axisymmetric screech tones in supersonic jets. <i>Journal of Fluid Mechanics</i> , 2021 , 928,	3.7	1
4	On the modelling of wavepacket scattering noise with coherence effects. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 4472	2.2	1
3	Amplitude scaling of turbulent-jet wavepackets 2018 ,		1
2	Including acoustic modes in the vortex-sheet eigenbasis of a jet.. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 852	2.2	0

1 Resolvent-based modeling of turbulent jet noise. *Journal of the Acoustical Society of America*, **2021**, 150, 2421

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