Oliver Schmidt

List of Publications by Citations

42 papers	1,519 citations	13 h-index	38 g-index
52 ext. papers	2,497 ext. citations	3.1 avg, IF	5.41 L-index

#	Paper	IF	Citations
42	Modal Analysis of Fluid Flows: An Overview. *AIAA Journal*, **2017**, 55, 4013-4041	2.1	508
41	Spectral proper orthogonal decomposition and its relationship to dynamic mode decomposition and resolvent analysis. *Journal of Fluid Mechanics*, **2018**, 847, 821-867	3.7	319
40	Spectral analysis of jet turbulence. *Journal of Fluid Mechanics*, **2018**, 855, 953-982	3.7	127
39	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. *Journal of Fluid Mechanics*, **2018**, 851, 83-124	3.7	83
38	Acoustic resonance in the potential core of subsonic jets. *Journal of Fluid Mechanics*, **2017**, 825, 1113-1152	3.7	71
37	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure eduction and global stability. *Journal of Fluid Mechanics*, **2017**, 825, 1153-1181	3.7	66
36	Guide to Spectral Proper Orthogonal Decomposition. *AIAA Journal*, **2020**, 58, 1023-1033	2.1	61
35	Jet-flap interaction tones. *Journal of Fluid Mechanics*, **2018**, 853, 333-358	3.7	45
34	High-frequency wavepackets in turbulent jets. *Journal of Fluid Mechanics*, **2017**, 830,	3.7	24
33	A conditional space–time POD formalism for intermittent and rare events: example of acoustic bursts in turbulent jets. *Journal of Fluid Mechanics*, **2019**, 867,	3.7	22
32	Linear stability of compressible flow in a streamwise corner. *Journal of Fluid Mechanics*, **2011**, 688, 569-590	3.7	22
31	An efficient streaming algorithm for spectral proper orthogonal decomposition. *Computer Physics Communications*, **2019**, 237, 98-109	4.2	17
30	Waves in screeching jets. *Journal of Fluid Mechanics*, **2021**, 913,	3.7	14
29	Lift-up, Kelvin–Helmholtz and Orr mechanisms in turbulent jets. *Journal of Fluid Mechanics*, **2020**, 896,	3.7	12
28	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound **2016**,		12
27	Frequency–time analysis, low-rank reconstruction and denoising of turbulent flows using SPOD. *Journal of Fluid Mechanics*, **2021**, 926,	3.7	11
26	Large-eddy simulations of co-annular turbulent jet using a Voronoi-based mesh generation framework **2018**,		10

25	Bispectral mode decomposition of nonlinear flows. *Nonlinear Dynamics*, **2020**, 102, 2479-2501	5	8
24	Trapped acoustic waves in the potential core of subsonic jets **2016**,		8
23	Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. *Monthly Weather Review*, **2019**, 147, 2979-2995	2.4	7
22	Viscid–inviscid pseudo-resonance in streamwise corner flow. *Journal of Fluid Mechanics*, **2014**, 743, 327-357	3.7	7
21	Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet **2016**,		6
20	Optimal eddy viscosity for resolvent-based models of coherent structures in turbulent jets. *Journal of Fluid Mechanics*, **2021**, 917,	3.7	6
19	Eddy viscosity for resolvent-based jet noise models **2019**,		6
18	Spectral proper orthogonal decomposition analysis of the turbulent wake of a disk at Re = 50 000. *Physical Review Fluids*, **2020**, 5,	2.8	5
17	An investigation of the Mach number dependence of trapped acoustic waves in turbulent jets **2019**,		5
16	Optimal wavepackets in streamwise corner flow. *Journal of Fluid Mechanics*, **2015**, 766, 405-435	3.7	4
15	Tonal dynamics and sound in subsonic turbulent jets **2016**,		4
14	One Way Navier-Stokes and resolvent analysis for modeling coherent structures in a supersonic turbulent jet **2017**,		4
13	Modulation of downstream-propagating waves in aeroacoustic resonance **2019**,		4
12	Amplitude Scaling of Wave Packets in Turbulent Jets. *AIAA Journal*, **2021**, 59, 559-568	2.1	4
11	Numerical Investigation of Classical and Bypass Transition in Streamwise Corner-flow. *Procedia IUTAM*, **2015**, 14, 218-226		3
10	Modal Analysis of Acoustic Directivity in Turbulent Jets. *AIAA Journal*, **2021**, 59, 228-239	2.1	3
9	Wavepacket intermittency and its role in turbulent jet noise **2017**,		2
8	Role of Coherent Structures in Turbulent Premixed Flame Acoustics. *AIAA Journal*, **2020**, 58, 2635-2642	2.1	2

7	Streaks and coherent structures in jets from round and serrated nozzles **2019**,		2
6	High-frequency wavepackets in turbulent jets **2016**,		1
5	Amplitude scaling of turbulent-jet wavepackets **2018**,		1
4	A stochastic SPOD-Galerkin model for broadband turbulent flows. *Theoretical and Computational Fluid Dynamics*,1	2.3	1
3	Direct Numerical Simulation of Boundary Layer Transition in Streamwise Corner-Flow **2013**, 337-348		0
2	Turbulent Inflow Generation by Resolvent Mode Forcing. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2020**, 110-119	0.3	
1	Leading-Edge Receptivity to Free-Stream Vorticity of Streamwise Corner-Flow. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2016**, 259-268	0.3	