

# Oliver Schmidt

## 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.

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	Optimal eddy viscosity for resolvent-based models of coherent structures in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 917,	3.7	6
41	Modal Analysis of Acoustic Directivity in Turbulent Jets. <i>AIAA Journal</i> , <b>2021</b> , 59, 228-239	2.1	3
40	Amplitude Scaling of Wave Packets in Turbulent Jets. <i>AIAA Journal</i> , <b>2021</b> , 59, 559-568	2.1	4
39	Waves in screeching jets. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 913,	3.7	14
38	Frequency-time analysis, low-rank reconstruction and denoising of turbulent flows using SPOD. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 926,	3.7	11
37	Bispectral mode decomposition of nonlinear flows. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 2479-2501	5	8
36	Lift-up, Kelvin-Helmholtz and Orr mechanisms in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 896,	3.7	12
35	Guide to Spectral Proper Orthogonal Decomposition. <i>AIAA Journal</i> , <b>2020</b> , 58, 1023-1033	2.1	61
34	Role of Coherent Structures in Turbulent Premixed Flame Acoustics. <i>AIAA Journal</i> , <b>2020</b> , 58, 2635-2642	2.1	2
33	Spectral proper orthogonal decomposition analysis of the turbulent wake of a disk at $Re = 50\,000$ . <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	5
32	Turbulent Inflow Generation by Resolvent Mode Forcing. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2020</b> , 110-119	0.3	
31	A conditional space-time POD formalism for intermittent and rare events: example of acoustic bursts in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 867,	3.7	22
30	Spectral Empirical Orthogonal Function Analysis of Weather and Climate Data. <i>Monthly Weather Review</i> , <b>2019</b> , 147, 2979-2995	2.4	7
29	Modulation of downstream-propagating waves in aeroacoustic resonance <b>2019</b> ,		4
28	An investigation of the Mach number dependence of trapped acoustic waves in turbulent jets <b>2019</b> ,		5
27	Eddy viscosity for resolvent-based jet noise models <b>2019</b> ,		6
26	Streaks and coherent structures in jets from round and serrated nozzles <b>2019</b> ,		2

25	An efficient streaming algorithm for spectral proper orthogonal decomposition. <i>Computer Physics Communications</i> , <b>2019</b> , 237, 98-109	4.2	17
24	Importance of the nozzle-exit boundary-layer state in subsonic turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 851, 83-124	3.7	83
23	Jet/flap interaction tones. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 853, 333-358	3.7	45
22	Spectral analysis of jet turbulence. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 855, 953-982	3.7	127
21	Spectral proper orthogonal decomposition and its relationship to dynamic mode decomposition and resolvent analysis. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 847, 821-867	3.7	319
20	Large-eddy simulations of co-annular turbulent jet using a Voronoi-based mesh generation framework <b>2018</b> ,		10
19	Amplitude scaling of turbulent-jet wavepackets <b>2018</b> ,		1
18	Wavepacket intermittency and its role in turbulent jet noise <b>2017</b> ,		2
17	High-frequency wavepackets in turbulent jets. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 830,	3.7	24
16	Wavepackets and trapped acoustic modes in a turbulent jet: coherent structure evolution and global stability. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 825, 1153-1181	3.7	66
15	Acoustic resonance in the potential core of subsonic jets. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 825, 1113-1152	3.7	71
14	Modal Analysis of Fluid Flows: An Overview. <i>AIAA Journal</i> , <b>2017</b> , 55, 4013-4041	2.1	508
13	One Way Navier-Stokes and resolvent analysis for modeling coherent structures in a supersonic turbulent jet <b>2017</b> ,		4
12	Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet <b>2016</b> ,		6
11	Trapped acoustic waves in the potential core of subsonic jets <b>2016</b> ,		8
10	Tonal dynamics and sound in subsonic turbulent jets <b>2016</b> ,		4
9	Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound <b>2016</b> ,		12
8	High-frequency wavepackets in turbulent jets <b>2016</b> ,		1

7	Leading-Edge Receptivity to Free-Stream Vorticity of Streamwise Corner-Flow. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2016</b> , 259-268	0.3	
6	Optimal wavepackets in streamwise corner flow. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 766, 405-435	3.7	4
5	Numerical Investigation of Classical and Bypass Transition in Streamwise Corner-flow. <i>Procedia IUTAM</i> , <b>2015</b> , 14, 218-226		3
4	Viscid $\bar{\nu}$ viscid pseudo-resonance in streamwise corner flow. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 743, 327-357	5.7	7
3	Direct Numerical Simulation of Boundary Layer Transition in Streamwise Corner-Flow <b>2013</b> , 337-348		0
2	Linear stability of compressible flow in a streamwise corner. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 688, 569-590	3.0	2.2
1	A stochastic SPOD-Galerkin model for broadband turbulent flows. <i>Theoretical and Computational Fluid Dynamics</i> ,1	2.3	1