William R Wolf

List of Publications by Year
in descending order

32	724	623734	552781
papers	citations	14 h-index	26 g-index

32	32	32	360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Construction of reduced-order models for fluid flows using deep feedforward neural networks. Journal of Fluid Mechanics, 2019, 872, 963-994.	3.4	113
2	Convective effects and the role of quadrupole sources for aerofoil aeroacoustics. Journal of Fluid Mechanics, 2012, 708, 502-538.	3.4	106
3	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
4	Scattering of turbulent-jet wavepackets by a swept trailing edge. Journal of the Acoustical Society of America, 2016, 140, 4350-4359.	1.1	49
5	Trailing-Edge Noise Predictions Using Compressible Large-Eddy Simulation and Acoustic Analogy. AIAA Journal, 2012, 50, 2423-2434.	2.6	47
6	Aeroacoustic Integrals Accelerated by Fast Multipole Method. AIAA Journal, 2011, 49, 1466-1477.	2.6	32
7	Acoustic Analogy Formulations Accelerated by Fast Multipole Method for Two-Dimensional Aeroacoustic Problems. AIAA Journal, 2010, 48, 2274-2285.	2.6	27
8	Trailing-edge noise from the scattering of spanwise-coherent structures. Physical Review Fluids, 2019, 4, .	2.5	23
9	On secondary tones arising in trailing-edge noise at moderate Reynolds numbers. European Journal of Mechanics, B/Fluids, 2020, 79, 54-66.	2.5	21
10	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
11	High-Order Unstructured Essentially Nonoscillatory and Weighted Essentially Nonoscillatory Schemes for Aerodynamic Flows. AIAA Journal, 2006, 44, 2295-2310.	2.6	17
12	Effects of mean flow convection, quadrupole sources and vortex shedding on airfoil overall sound pressure level. Journal of Sound and Vibration, 2013, 332, 6905-6912.	3.9	17
13	Transition, intermittency and phase interference effects in airfoil secondary tones and acoustic feedback loop. Journal of Fluid Mechanics, 2022, 937, .	3.4	17
14	Acoustic scattering by finite poroelastic plates. , 2014, , .		16
15	Large Eddy Simulations of convergentâ€“divergent channel flows at moderate Reynolds numbers. International Journal of Heat and Fluid Flow, 2015, 56, 137-151.	2.4	15
16	Numerical noise prediction and source identification of a realistic landing gear. Journal of Sound and Vibration, 2021, 496, 115933.	3.9	15
17	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
18	Assessment of reduced-order modeling strategies for convective heat transfer. Numerical Heat Transfer; Part A: Applications, 2020, 77, 702-729.	2.1	14

#	Article	IF	Citations
19	Leading-Edge Noise Prediction of General Airfoil Profiles with Spanwise-Varying Inflow Conditions. AIAA Journal, 2018, 56, 1711-1716.	2.6	9
20	Sound and Sources of Sound in a Model Problem with Wake Interaction. AIAA Journal, 2015, 53, 2588-2606.	2.6	8
21	Fast multipole method applied to Lagrangian simulations of vortical flows. Communications in Nonlinear Science and Numerical Simulation, 2017, 51, 180-197.	3.3	6
22	Aeroacoustic analysis of automotive roof crossbars through on-track acoustic measurements. Applied Acoustics, 2018, 142, 95-105.	3.3	6
23	Extremum Seeking Control Applied to Airfoil Trailing-Edge Noise Suppression. AIAA Journal, 2022, 60, 823-843.	2.6	6
24	On the Application of Incomplete Ffowcs Williams and Hawkings Surfaces for Aeroacoustic Predictions. AIAA Journal, 2022, 60, 1971-1977.	2.6	6
25	Acoustic scattering by finite composite plates. Journal of the Acoustical Society of America, 2018, 144, 1170-1179.	1.1	4
26	Large Eddy Simulation of Stall Noise. , 2014, , .		3
27	Influence of different subgrid-scale models in low-order LES of supersonic jet flows. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	3
28	On the scalability of CFD tool for supersonic jet flow configurations. Parallel Computing, 2020, 93, 102620.	2.1	3
29	A Comparative Study of Discontinuous High Order Methods for Compressible Flows. , 2014, , .		2
30	A fast algorithm for simulation of periodic flows using discrete vortex particles. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4555-4570.	1.6	1
31	Strong scaling of numerical solver for supersonic jet flow configurations. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	1
32	Acoustic Scattering by Laminated Plates with Viscoelastic Layers. AIAA Journal, 2022, 60, 2469-2480.	2.6	0