Xavier Gloerfelt

List of Publications by Year
in descending order

18 papers	**388** citations	933447 **10** h-index	839539 **18** g-index
19 all docs	**19** docs citations	**19** times ranked	**241** citing authors

#	Article	IF	Citations
1	Numerical Evidence of Mode Switching in the Flow-Induced Oscillations by a Cavity. International Journal of Aeroacoustics, 2003, 2, 193-217.	1.3	57
2	Turbulent boundary-layer noise: direct radiation at Mach number 0.5. Journal of Fluid Mechanics, 2013, 723, 318-351.	3.4	56
3	Direct numerical simulations of supersonic turbulent channel flows of dense gases. Journal of Fluid Mechanics, 2017, 821, 153-199.	3.4	47
4	Direct computation of the noise induced by a turbulent flow through a diaphragm in a duct at low Mach number. Computers and Fluids, 2008, 37, 388-401.	2.5	44
5	Large Eddy Simulation Requirements for the Flow over Periodic Hills. Flow, Turbulence and Combustion, 2019, 103, 55-91.	2.6	40
6	Influence of pressure gradients on wall pressure beneath a turbulent boundary layer. Journal of Fluid Mechanics, 2018, 838, 715-758.	3.4	31
7	Comparison of Subgrid-scale Viscosity Models and Selective Filtering Strategy for Large-eddy Simulations. Flow, Turbulence and Combustion, 2013, 91, 497-518.	2.6	27
8	Study of interpolation methods for high-accuracy computations on overlapping grids. Computers and Fluids, 2012, 68, 112-133.	2.5	17
9	Dense-gas effects on compressible boundary-layer stability. Journal of Fluid Mechanics, 2020, 893, .	3.4	14
10	Numerical Investigation of High-Speed Turbulent Boundary Layers of Dense Gases. Flow, Turbulence and Combustion, 2020, 105, 555-579.	2.6	13
11	Large eddy simulation of turbomachinery flows using a high-order implicit residual smoothing scheme. Computers and Fluids, 2020, 198, 104395.	2.5	9
12	Large Eddy Simulations of Strongly Non-Ideal Compressible Flows through a Transonic Cascade. Energies, 2021, 14, 772.	3.1	8
13	A Priori Tests of RANS Models for Turbulent Channel Flows of a Dense Gas. Flow, Turbulence and Combustion, 2018, 101, 295-315.	2.6	6
14	Instabilities in non-ideal fluids. Journal of Fluid Mechanics, 2019, 880, 1-4.	3.4	6
15	Multi‐size‐mesh multi‐time‐step algorithm for noise computation on curvilinear meshes. International Journal for Numerical Methods in Fluids, 2014, 74, 1-33.	1.6	5
16	Silent inflow condition for turbulent boundary layers. Physical Review Fluids, 2017, 2, .	2.5	5
17	Stationarity and homogeneity assumptions in wavenumber-frequency representation of turbulent boundary layer wall pressure. Journal of the Acoustical Society of America, 2020, 148, 2151-2160.	1.1	2
18	Numerical Investigation of Supersonic Dense-Gas Boundary Layers. Lecture Notes in Mechanical Engineering, 2020, , 91-103.	0.4	0