M Pino MartÃ-n

List of Publications by Year
in descending order

27 papers	2,509 citations	567281 15 h-index	677142 22 g-index
28 all docs	28 docs citations	28 times ranked	657 citing authors

#	Article	IF	Citations
1	Special issue on the fluid mechanics of hypersonic flight. Theoretical and Computational Fluid Dynamics, 2022, 36, 1-8.	2.2	10
2	Large eddy simulation of two separated hypersonic shock/turbulent boundary layer interactions. Physical Review Fluids, 2022, 7, .	2.5	5
3	Characterization of the shear layer in separated shock/turbulent boundary layer interactions. Journal of Fluid Mechanics, 2021, 912, .	3.4	15
4	Reynolds stress anisotropy in shock/isotropic turbulence interactions. Journal of Fluid Mechanics, 2021, 913, .	3.4	5
5	Turbulence in a hypersonic compression ramp flow. Physical Review Fluids, 2021, 6, .	2.5	26
6	Scaling of hypersonic shock/turbulent boundary layer interactions. Physical Review Fluids, 2021, 6, .	2.5	6
7	LES of Shock-Turbulent Boundary Layer Interaction over a Mach 10 Hollow Cylinder with Flare.. , 2021, , .		1
8	Persistence of a Centrifugal Instability in Shock-separated Flows at Mach 3 through 10. , 2019, , .		4
9	Low-frequency dynamics in a shock-induced separated flow. Journal of Fluid Mechanics, 2016, 807, 441-477.	3.4	123
10	New LES of a Hypersonic Shock/Turbulent Boundary Layer Interaction. , 2016, , .		18
11	Preliminary LES of Hypersonic Shock/Turbulent Boundary Layer Interactions. , 2015, , .		6
12	Low-frequency unsteadiness in shock waveâ€“turbulent boundary layer interaction. Journal of Fluid Mechanics, 2012, 699, 1-49.	3.4	231
13	Direct numerical simulation of hypersonic turbulent boundary layers. Part 4. Effect of high enthalpy. Journal of Fluid Mechanics, 2011, 684, 25-59.	3.4	105
14	Direct numerical simulation of hypersonic turbulent boundary layers. Part 3. Effect of Mach number. Journal of Fluid Mechanics, 2011, 672, 245-267.	3.4	258
15	Activity Detection for scientific visualization. , 2011, , .		5
16	Direct numerical simulation of hypersonic turbulent boundary layers. Part 2. Effect of wall temperature. Journal of Fluid Mechanics, 2010, 655, 419-445.	3.4	250
17	Chasing eddies and their wall signature in DNS data of turbulent boundary layers. Journal of Turbulence, 2009, 10, N15.	1.4	7
18	Direct Numerical Simulation of a Reflected-Shock-Wave/Turbulent-Boundary-Layer Interaction. AIAA Journal, 2009, 47, 1173-1185.	2.6	92

#	Article	IF	Citations
19	Coherent structures in direct numerical simulation of turbulent boundary layers at Mach 3. Journal of Fluid Mechanics, 2008, 594, 59-69.	3.4	118
20	Analysis of shock motion in shockwave and turbulent boundary layer interaction using direct numerical simulation data. Journal of Fluid Mechanics, 2008, 594, 71-83.	3.4	249
21	Upstream and downstream influence on the unsteadiness of STBLI using DNS data in two configurations. , 2008, , .		5
22	Low Reynolds Number Effects in a Mach 3 Shock/Turbulent-Boundary-Layer Interaction. AIAA Journal, 2008, 46, 1883-1886.	2.6	31
23	Direct Numerical Simulation of Supersonic Turbulent Boundary Layer over a Compression Ramp. AIAA Journal, 2007, 45, 879-889.	2.6	334
24	Direct numerical simulation of hypersonic turbulent boundary layers. Part 1. Initialization and comparison with experiments. Journal of Fluid Mechanics, 2007, 570, 347-364.	3.4	203
25	Optimization of nonlinear error for weighted essentially non-oscillatory methods in direct numerical simulations of compressible turbulence. Journal of Computational Physics, 2007, 223, 384-397.	3.8	214
26	Stencil Adaptation Properties of a WENO Scheme in Direct Numerical Simulations of Compressible Turbulence. Journal of Scientific Computing, 2007, 30, 533-554.	2.3	15
27	Assessment of inflow boundary conditions for compressible turbulent boundary layers. Physics of Fluids, 2004, 16, 2623-2639.	4.0	172