

M Pino MartÃ-n

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,509
citations

567281

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h-index

677142

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28
all docs

28
docs citations

28
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Numerical Simulation of Supersonic Turbulent Boundary Layer over a Compression Ramp. AIAA Journal, 2007, 45, 879-889.	2.6	334
2	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
3	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
4	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
5	Low-frequency unsteadiness in shock wave-turbulent boundary layer interaction. Journal of Fluid Mechanics, 2012, 699, 1-49.	3.4	231
6	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
7	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
8	Assessment of inflow boundary conditions for compressible turbulent boundary layers. Physics of Fluids, 2004, 16, 2623-2639.	4.0	172
9	Low-frequency dynamics in a shock-induced separated flow. Journal of Fluid Mechanics, 2016, 807, 441-477.	3.4	123
10	Coherent structures in direct numerical simulation of turbulent boundary layers at Mach 3. Journal of Fluid Mechanics, 2008, 594, 59-69.	3.4	118
11	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
12	Direct Numerical Simulation of a Reflected-Shock-Wave/Turbulent-Boundary-Layer Interaction. AIAA Journal, 2009, 47, 1173-1185.	2.6	92
13	Low Reynolds Number Effects in a Mach 3 Shock/Turbulent-Boundary-Layer Interaction. AIAA Journal, 2008, 46, 1883-1886.	2.6	31
14	Turbulence in a hypersonic compression ramp flow. Physical Review Fluids, 2021, 6, .	2.5	26
15	New LES of a Hypersonic Shock/Turbulent Boundary Layer Interaction. , 2016, , .		18
16	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
17	Characterization of the shear layer in separated shock/turbulent boundary layer interactions. Journal of Fluid Mechanics, 2021, 912, .	3.4	15
18	Special issue on the fluid mechanics of hypersonic flight. Theoretical and Computational Fluid Dynamics, 2022, 36, 1-8.	2.2	10

#	ARTICLE	IF	CITATIONS
19	Chasing eddies and their wall signature in DNS data of turbulent boundary layers. Journal of Turbulence, 2009, 10, N15.	1.4	7
20	Preliminary LES of Hypersonic Shock/Turbulent Boundary Layer Interactions. , 2015, , .		6
21	Scaling of hypersonic shock/turbulent boundary layer interactions. Physical Review Fluids, 2021, 6, .	2.5	6
22	Upstream and downstream influence on the unsteadiness of STBLI using DNS data in two configurations. , 2008, , .		5
23	Activity Detection for scientific visualization. , 2011, , .		5
24	Reynolds stress anisotropy in shock/isotropic turbulence interactions. Journal of Fluid Mechanics, 2021, 913, .	3.4	5
25	Large eddy simulation of two separated hypersonic shock/turbulent boundary layer interactions. Physical Review Fluids, 2022, 7, .	2.5	5
26	Persistence of a Centrifugal Instability in Shock-separated Flows at Mach 3 through 10. , 2019, , .		4
27	LES of Shock-Turbulent Boundary Layer Interaction over a Mach 10 Hollow Cylinder with Flare.. , 2021, , .		1