Sasidharan Unnikrishnan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6329526/publications.pdf

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29	314	933447	888059
papers	citations	10 h-index	17 g-index

29	29	29	111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acoustic, hydrodynamic and thermal modes in a supersonic cold jet. Journal of Fluid Mechanics, 2016, 800, 387-432.	3.4	82
2	Acoustically Informed Statistics for Wave-Packet Models. AIAA Journal, 2019, 57, 2421-2434.	2.6	27
3	A robust approach for stability analysis of complex flows using high-order Navier-Stokes solvers. Journal of Computational Physics, 2020, 403, 109076.	3.8	26
4	Interactions between vortical, acoustic and thermal components during hypersonic transition. Journal of Fluid Mechanics, 2019, 868, 611-647.	3.4	24
5	Linear, nonlinear and transitional regimes of second-mode instability. Journal of Fluid Mechanics, 2020, 905, .	3.4	23
6	Transfer mechanisms from stochastic turbulence to organized acoustic radiation in a supersonic jet. European Journal of Mechanics, B/Fluids, 2018, 72, 38-56.	2.5	18
7	First-mode-induced nonlinear breakdown in a hypersonic boundary layer. Computers and Fluids, 2019, 191, 104249.	2.5	14
8	Instabilities and transition in cooled wall hypersonic boundary layers. Journal of Fluid Mechanics, 2021, 915, .	3.4	12
9	Representing rectangular jet dynamics through azimuthal Fourier modes. Physical Review Fluids, 2021, 6, .	2.5	12
10	A high-fidelity method to analyze perturbation evolution in turbulent flows. Journal of Computational Physics, 2016, 310, 45-62.	3.8	11
11	A pressure decomposition framework for aeroacoustic analysis of turbulent jets. European Journal of Mechanics, B/Fluids, 2020, 81, 41-61.	2.5	10
12	The Dynamics of Azimuthal Modes in Rectangular Jets. , 2020, , .		8
13	Kovasznay-type analysis of transition modes in a hypersonic boundary layer. , 2018, , .		7
14	Verification and application of a mean flow perturbation method for jet noise. Aerospace Science and Technology, 2018, 80, 520-540.	4.8	7
15	Global transition dynamics of flow in a lid-driven cubical cavity. Theoretical and Computational Fluid Dynamics, 2021, 35, 397-418.	2.2	5
16	On the Turbulence Statistics of a Hot, Overexpanded Rectangular Jet. , 2020, , .		4
17	Linear and Nonlinear Flow Analysis of Elements of a Supersonic Inlet. AIAA Journal, 2021, 59, 4392-4409.	2.6	4
18	Effects of Expansion Ratio and Nozzle Asymmetry on Flowfield of Diamond Jets. AIAA Journal, 2022, 60, 5215-5231.	2.6	4

#	Article	IF	Citations
19	Acoustic mode and sources in a supersonic jet. , 2017, , .		3
20	Directivity and intermittency in the nearfield of a Mach 1.3 jet. International Journal of Aeroacoustics, 2017, 16, 135-164.	1.3	2
21	Acoustic Characteristics of a Supersonic Twin-jet Configuration. , 2018, , .		2
22	Stability Analysis of Supersonic Flows Over a Modified Backward Facing Step. , 2021, , .		2
23	Experimental and Computational Study of a Mach 2 Diamond Jet. , 2021, , .		2
24	Perturbation Analysis of Nonlinear Stages in Hypersonic Transition. International Journal of Computational Fluid Dynamics, 2021, 35, 306-318.	1.2	2
25	Application of Navier-Stokes based Mean-Flow Perturbation Method to Supersonic Jet Noise. , 2016, , .		1
26	On the Use of Mean Flow Perturbation for Global Stability Analysis. , 2018, , .		1
27	Instability characteristics of cooled hypersonic boundary layers. , 2020, , .		1
28	Acoustically informed statistics for wavepacket models. , 2018, , .		0
29	Fluctuating-enthalpy source mechanisms of first- and second-mode oscillations in a hypersonic boundary layer. , 2019, , .		0