Xianxu

List of Publications by Year
in descending order

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23 papers	269 citations	759233 12 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	77 citing authors

#	Article	IF	Citations
1	Supersonic turbulent channel flows over spanwise-oriented grooves. Physics of Fluids, 2022, 34, .	4.0	8
2	Wall shear stress and wall heat flux in a supersonic turbulent boundary layer. Physics of Fluids, 2022, 34, .	4.0	26
3	Effect of gas blowing on the head of thermal ablation vehicle. Advances in Aerodynamics, 2022, 4, .	2.5	1
4	Boundary layer transition and linear modal instabilities of hypersonic flow over a lifting body. Journal of Fluid Mechanics, 2022, 938, .	3.4	16
5	A flight test based deep learning method for transition heat flux prediction in hypersonic flow. Physics of Fluids, 2022, 34, .	4.0	8
6	Wall heat flux in a supersonic shock wave/turbulent boundary layer interaction. Physics of Fluids, 2022, 34, .	4.0	12
7	Effects of wall temperature on two-point statistics of the fluctuating wall shear stress and heat flux in supersonic turbulent boundary layers. Physics of Fluids, 2022, 34, .	4.0	5
8	Spectral decomposition of wall-attached/detached eddies in compressible and incompressible turbulent channel flows. Physical Review Fluids, 2022, 7, .	2.5	5
9	Stability analysis of streamwise vortices over a blunt inclined cone under a hypersonic flight condition. Physics of Fluids, 2022, 34, .	4.0	4
10	Linear modal global instabilities of hypersonic flow over an inclined cone. Physics of Fluids, 2022, 34, .	4.0	3
11	Wall shear stress, pressure, and heat flux fluctuations in compressible wall-bounded turbulence, part I: One-point statistics. Physics of Fluids, 2022, 34, .	4.0	12
12	Stationary cross-flow breakdown in a high-speed swept-wing boundary layer. Physics of Fluids, 2021, 33, .	4.0	14
13	Identification of traveling crossflow waves under real hypersonic flight conditions. Physics of Fluids, 2021, 33, .	4.0	14
14	Receptivity of a hypersonic flow over a blunt wedge to a slow acoustic wave. Physics of Fluids, 2021, 33, .	4.0	7
15	Design and transition characteristics of a standard model for hypersonic boundary layer transition research. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1637-1647.	3.4	10
16	Hypersonic boundary layer transitions over a yawed, blunt cone. Aerospace Science and Technology, 2021, 119, 107170.	4.8	7
17	A decomposition formula for the wall heat flux of a compressible boundary layer. Advances in Aerodynamics, 2021, 3, .	2.5	19
18	Progress in flight tests of hypersonic boundary layer transition. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1589-1609.	3.4	16

#	Article	IF	Citations
19	On the wake structure of a micro-ramp vortex generator in hypersonic flow. Physics of Fluids, 2020, 32, .	4.0	17
20	The coherent structure of the kinetic energy transfer in shear turbulence. Journal of Fluid Mechanics, 2020, 892, .	3.4	23
21	Wall pressure beneath a transitional hypersonic boundary layer over an inclined straight circular cone. Advances in Aerodynamics, 2020, 2, .	2.5	15
22	From primary instabilities to secondary instabilities in GÃ¶rtler vortex flows. Advances in Aerodynamics, 2019, 1, .	2.5	15
23	Recent progresses on hypersonic boundary-layer transition. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 114701.	0.4	12