

# Xianxu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Wall shear stress and wall heat flux in a supersonic turbulent boundary layer. <i>Physics of Fluids</i> , 2022, 34, .	4.0	26
2	The coherent structure of the kinetic energy transfer in shear turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 892, .	3.4	23
3	A decomposition formula for the wall heat flux of a compressible boundary layer. <i>Advances in Aerodynamics</i> , 2021, 3, .	2.5	19
4	On the wake structure of a micro-ramp vortex generator in hypersonic flow. <i>Physics of Fluids</i> , 2020, 32, .	4.0	17
5	Progress in flight tests of hypersonic boundary layer transition. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1589-1609.	3.4	16
6	Boundary layer transition and linear modal instabilities of hypersonic flow over a lifting body. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	3.4	16
7	From primary instabilities to secondary instabilities in Görtler vortex flows. <i>Advances in Aerodynamics</i> , 2019, 1, .	2.5	15
8	Wall pressure beneath a transitional hypersonic boundary layer over an inclined straight circular cone. <i>Advances in Aerodynamics</i> , 2020, 2, .	2.5	15
9	Stationary cross-flow breakdown in a high-speed swept-wing boundary layer. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
10	Identification of traveling crossflow waves under real hypersonic flight conditions. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
11	Recent progresses on hypersonic boundary-layer transition. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 114701.	0.4	12
12	Wall heat flux in a supersonic shock wave/turbulent boundary layer interaction. <i>Physics of Fluids</i> , 2022, 34, .	4.0	12
13	Wall shear stress, pressure, and heat flux fluctuations in compressible wall-bounded turbulence, part I: One-point statistics. <i>Physics of Fluids</i> , 2022, 34, .	4.0	12
14	Design and transition characteristics of a standard model for hypersonic boundary layer transition research. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1637-1647.	3.4	10
15	Supersonic turbulent channel flows over spanwise-oriented grooves. <i>Physics of Fluids</i> , 2022, 34, .	4.0	8
16	A flight test based deep learning method for transition heat flux prediction in hypersonic flow. <i>Physics of Fluids</i> , 2022, 34, .	4.0	8
17	Receptivity of a hypersonic flow over a blunt wedge to a slow acoustic wave. <i>Physics of Fluids</i> , 2021, 33, .	4.0	7
18	Hypersonic boundary layer transitions over a yawed, blunt cone. <i>Aerospace Science and Technology</i> , 2021, 119, 107170.	4.8	7

#	ARTICLE	IF	CITATIONS
19	Effects of wall temperature on two-point statistics of the fluctuating wall shear stress and heat flux in supersonic turbulent boundary layers. <i>Physics of Fluids</i> , 2022, 34, .	4.0	5
20	Spectral decomposition of wall-attached/detached eddies in compressible and incompressible turbulent channel flows. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	5
21	Stability analysis of streamwise vortices over a blunt inclined cone under a hypersonic flight condition. <i>Physics of Fluids</i> , 2022, 34, .	4.0	4
22	Linear modal global instabilities of hypersonic flow over an inclined cone. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
23	Effect of gas blowing on the head of thermal ablation vehicle. <i>Advances in Aerodynamics</i> , 2022, 4, .	2.5	1