

Shihe Yi

List of Publications by Year in descending order

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citations

361413

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all docs

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docs citations

62
times ranked

322
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Backward-Facing Step Shape on Hypersonic Flow Characteristics. Journal of Thermophysics and Heat Transfer, 2022, 36, 296-302.	1.6	2
2	Effects of steps on the hypersonic boundary layer transition over a cone at 10° angle-of-attack. Physics of Fluids, 2022, 34, .	4.0	5
3	Delaying hypersonic boundary layer transition using forward-facing step arrays: An experimental work. Physics of Fluids, 2022, 34, .	4.0	3
4	A swept fin-induced flow field with different height mounting gaps. Chinese Journal of Aeronautics, 2021, 34, 148-162.	5.3	10
5	Aero-optical testing of a Mach 3 cooling film. Optik, 2021, 225, 165721.	2.9	3
6	Influences of Steps on the Hypersonic Boundary-Layer Transition on a Cone. AIAA Journal, 2021, 59, 439-446.	2.6	9
7	Multi-resolution analysis of aero-optical effects in a supersonic turbulent boundary layer. Applied Optics, 2021, 60, 2242.	1.8	8
8	Experimental investigation of supersonic turbulent flow over cylinders with various heights. Journal of Visualization, 2021, 24, 461-470.	1.8	7
9	Research on head cooling of high-speed aircraft by liquid nitrogen. Aeronautical Journal, 2021, 125, 389-409.	1.6	1
10	Experimental study on the influence of attitude angle on the aero-optical effects of a hypersonic optical dome. Optik, 2020, 201, 163448.	2.9	6
11	Complex Interaction Between a Fin and a Transverse Jet at Mach 5. AIAA Journal, 2020, 58, 802-813.	2.6	1
12	Influence of turbulence structure with different scale on aero-optics induced by supersonic turbulent boundary layer. Optik, 2020, 202, 163565.	2.9	11
13	Research on correction of imaging deviation based on background-oriented schlieren technique. Optik, 2020, 224, 165692.	2.9	0
14	Experimental investigation of nose-tip bluntness effects on the hypersonic crossflow instability over a cone. International Journal of Heat and Fluid Flow, 2020, 86, 108746.	2.4	9
15	Experimental investigation of boundary layer transition over a delta wing at Mach number 6. Chinese Journal of Aeronautics, 2020, 33, 1889-1902.	5.3	21
16	Research on velocity measurements of the hypersonic turbulent boundary layer based on the nano-tracer-based planar laser scattering technique. Measurement Science and Technology, 2020, 31, 085302.	2.6	3
17	Experimental Investigation of the Hypersonic Boundary Layer Transition on a 45° Swept Flat Plate. Fluid Dynamics, 2020, 55, 111-120.	0.9	7
18	Experimental investigation about the second-mode waves in hypersonic boundary layer over a cone at small angle of attack. Experimental Thermal and Fluid Science, 2020, 118, 110143.	2.7	10

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19	Influence of cooling film pressure on the imaging quality of a hypersonic optical dome. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	5
20	Experimental investigation on aero-optical effects of a hypersonic optical dome under different exposure times. <i>Applied Optics</i> , 2020, 59, 3842.	1.8	17
21	Experimental study of second-mode wave on a flared cone at Mach 6. <i>Physics of Fluids</i> , 2019, 31, .	4.0	26
22	Experimental Study of Crossflow Instability over a Delta Flat Plate at Mach 6. <i>AIAA Journal</i> , 2019, 57, 5566-5574.	2.6	18
23	Experimental Investigation on Aero-Optical Mitigation of Hypersonic Optical Dome Using Microvortex Generators. <i>AIAA Journal</i> , 2019, 57, 2653-2658.	2.6	19
24	Structures and aero-optical effects of supersonic flow over a backward facing step with vortex generators. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 74, 302-311.	2.5	6
25	Experimental investigation of aero-optics induced by supersonic film based on near-field background-oriented schlieren. <i>Applied Optics</i> , 2019, 58, 2948.	1.8	20
26	Numerical simulation of film cooling effect and aero-optical effect of optical window. , 2019, , .		0
27	Solvent-assisted thermal reduction of microcrystalline graphene oxide with excellent microwave absorption performance. <i>RSC Advances</i> , 2018, 8, 15315-15325.	3.6	23
28	Research on aero-optical prediction of supersonic turbulent boundary layer based on aero-optical linking equation. <i>Optics Express</i> , 2018, 26, 31317.	3.4	29
29	Design and performance of a hypersonic quiet wind tunnel at NUDT. , 2017, , .		7
30	Cost-effective fabrication of graphene-like nanosheets from natural microcrystalline graphite minerals by liquid oxidation-reduction method. <i>RSC Advances</i> , 2017, 7, 32008-32019.	3.6	13
31	Experimental investigation on aero-optics of supersonic turbulent boundary layers. <i>Applied Optics</i> , 2017, 56, 7604.	1.8	38
32	Experimental investigation on aero-optical aberration of shock wave/boundary layer interactions. , 2016, , .		3
33	Preparation of Disperse Silver Particles by Chemical Reduction. <i>Russian Journal of Physical Chemistry A</i> , 2016, 90, 848-855.	0.6	9
34	Analyzing the structure of the optical path difference of the supersonic film cooling. , 2016, , .		3
35	Flow visualization of Mach 3 compression ramp with different upstream boundary layers. <i>Journal of Visualization</i> , 2015, 18, 631-644.	1.8	20
36	Visualisation on supersonic flow over backward-facing step with or without roughness. <i>Journal of Turbulence</i> , 2015, 16, 633-649.	1.4	11

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37	Experimental Investigation on the Effects of Swept Angles on Blunt Fin-Induced Flow. AIAA Journal, 2015, 53, 2805-2810.	2.6	8
38	Modeling the temporal evolution of an aero-optical aberration with the minimum description length principle. Optics Letters, 2014, 39, 3126.	3.3	4
39	Investigation on flows in a supersonic isolator with an adjustable cowl convergence angle. Experimental Thermal and Fluid Science, 2014, 52, 182-190.	2.7	12
40	Flow visualization of supersonic laminar flow over a backward-facing step via NPLS. Shock Waves, 2013, 23, 299-306.	1.9	29
41	Structure of the refractive index distribution of the supersonic turbulent boundary layer. Optics and Lasers in Engineering, 2013, 51, 1113-1119.	3.8	26
42	Experimental investigation of supersonic flow over elliptic surface. Open Physics, 2013, 11, .	1.7	0
43	Statistical characteristics of the tilts of the aero-optical aberration caused by the supersonic turbulent boundary layer. Optics Letters, 2013, 38, 751.	3.3	14
44	Hierarchical structure of the optical path length of the supersonic turbulent boundary layer. Optics Express, 2012, 20, 16494.	3.4	27
45	Correcting the aero-optical aberration of the supersonic mixing layer with adaptive optics: concept validation. Applied Optics, 2012, 51, 3922.	1.8	17
46	Optical transfer function of the supersonic mixing layer. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2628.	1.5	6
47	An experimental study on fine structures of supersonic laminar/turbulent flow over a backward-facing step based on NPLS. Science Bulletin, 2012, 57, 584-590.	1.7	30
48	Experimental study of a supersonic turbulent boundary layer using PIV. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1702-1709.	5.1	32
49	Visualization of coherent structures in a supersonic flat-plate boundary layer. Science Bulletin, 2011, 56, 489-494.	1.7	54
50	Aero-optical wavefront measurement technique based on BOS and its applications. Science Bulletin, 2011, 56, 2320-2326.	1.7	16
51	Study on the temporal and spatial characteristics of high-speed turbulent flow field and its optical transmission effects. Proceedings of SPIE, 2011, , .	0.8	0
52	Multiresolution analysis of density fluctuation in supersonic mixing layer. Science China Technological Sciences, 2010, 53, 584-591.	4.0	20
53	An experimental study of aero-optical aberration and dithering of supersonic mixing layer via BOS. Science China: Physics, Mechanics and Astronomy, 2010, 53, 81-94.	5.1	14
54	Density field measurement and approximate reconstruction of supersonic mixing layer. Science Bulletin, 2010, 55, 2004-2009.	1.7	24

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55	Aero-optical aberration measuring method based on NPLS and its application. Science Bulletin, 2010, 55, 3545-3549.	1.7	32
56	Optical path difference of the supersonic mixing layer. Applied Optics, 2010, 49, 3786.	2.1	20
57	Study of density field measurement based on NPLS technique in supersonic flow. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1357-1363.	0.2	57
58	Experimental and numerical study on instability structure of the supersonic mixing layer ($M_c = 0.5$). Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1624-1631.	0.2	12
59	Supersonic flow imaging via nanoparticles. Science in China Series D: Earth Sciences, 2009, 52, 3640-3648.	0.9	185
60	A flow control study of a supersonic mixing layer via NPLS. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 2001-2006.	0.2	41
61	The fractal measurement of experimental images of supersonic turbulent mixing layer. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 1134-1143.	0.2	43
62	The experimental study of interaction between shock wave and turbulence. Science Bulletin, 2007, 52, 1297-1301.	1.7	33