

Shihe Yi

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,139
citations

361413

20
h-index

434195

31
g-index

62
all docs

62
docs citations

62
times ranked

322
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Supersonic flow imaging via nanoparticles. Science in China Series D: Earth Sciences, 2009, 52, 3640-3648. | 0.9 | 185 |
| 2 | 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 |
| 3 | Visualization of coherent structures in a supersonic flat-plate boundary layer. Science Bulletin, 2011, 56, 489-494. | 1.7 | 54 |
| 4 | 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 |
| 5 | 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 |
| 6 | Experimental investigation on aero-optics of supersonic turbulent boundary layers. Applied Optics, 2017, 56, 7604. | 1.8 | 38 |
| 7 | The experimental study of interaction between shock wave and turbulence. Science Bulletin, 2007, 52, 1297-1301. | 1.7 | 33 |
| 8 | Aero-optical aberration measuring method based on NPLS and its application. Science Bulletin, 2010, 55, 3545-3549. | 1.7 | 32 |
| 9 | Experimental study of a supersonic turbulent boundary layer using PIV. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1702-1709. | 5.1 | 32 |
| 10 | 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 |
| 11 | Flow visualization of supersonic laminar flow over a backward-facing step via NPLS. Shock Waves, 2013, 23, 299-306. | 1.9 | 29 |
| 12 | Research on aero-optical prediction of supersonic turbulent boundary layer based on aero-optical linking equation. Optics Express, 2018, 26, 31317. | 3.4 | 29 |
| 13 | Hierarchical structure of the optical path length of the supersonic turbulent boundary layer. Optics Express, 2012, 20, 16494. | 3.4 | 27 |
| 14 | Structure of the refractive index distribution of the supersonic turbulent boundary layer. Optics and Lasers in Engineering, 2013, 51, 1113-1119. | 3.8 | 26 |
| 15 | Experimental study of second-mode wave on a flared cone at Mach 6. Physics of Fluids, 2019, 31, . | 4.0 | 26 |
| 16 | Density field measurement and approximate reconstruction of supersonic mixing layer. Science Bulletin, 2010, 55, 2004-2009. | 1.7 | 24 |
| 17 | Solvent-assisted thermal reduction of microcrystalline graphene oxide with excellent microwave absorption performance. RSC Advances, 2018, 8, 15315-15325. | 3.6 | 23 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Multiresolution analysis of density fluctuation in supersonic mixing layer. Science China Technological Sciences, 2010, 53, 584-591. | 4.0 | 20 |
| 20 | Optical path difference of the supersonic mixing layer. Applied Optics, 2010, 49, 3786. | 2.1 | 20 |
| 21 | Flow visualization of Mach 3 compression ramp with different upstream boundary layers. Journal of Visualization, 2015, 18, 631-644. | 1.8 | 20 |
| 22 | Experimental investigation of aero-optics induced by supersonic film based on near-field background-oriented schlieren. Applied Optics, 2019, 58, 2948. | 1.8 | 20 |
| 23 | Experimental Investigation on Aero-Optical Mitigation of Hypersonic Optical Dome Using Microvortex Generators. AIAA Journal, 2019, 57, 2653-2658. | 2.6 | 19 |
| 24 | Experimental Study of Crossflow Instability over a Delta Flat Plate at Mach 6. AIAA Journal, 2019, 57, 5566-5574. | 2.6 | 18 |
| 25 | Correcting the aero-optical aberration of the supersonic mixing layer with adaptive optics: concept validation. Applied Optics, 2012, 51, 3922. | 1.8 | 17 |
| 26 | Experimental investigation on aero-optical effects of a hypersonic optical dome under different exposure times. Applied Optics, 2020, 59, 3842. | 1.8 | 17 |
| 27 | Aero-optical wavefront measurement technique based on BOS and its applications. Science Bulletin, 2011, 56, 2320-2326. | 1.7 | 16 |
| 28 | 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 |
| 29 | 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 |
| 30 | Cost-effective fabrication of graphene-like nanosheets from natural microcrystalline graphite minerals by liquid oxidation-reduction method. RSC Advances, 2017, 7, 32008-32019. | 3.6 | 13 |
| 31 | 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 |
| 32 | 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 |
| 33 | Visualisation on supersonic flow over backward-facing step with or without roughness. Journal of Turbulence, 2015, 16, 633-649. | 1.4 | 11 |
| 34 | Influence of turbulence structure with different scale on aero-optics induced by supersonic turbulent boundary layer. Optik, 2020, 202, 163565. | 2.9 | 11 |
| 35 | 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 |
| 36 | A swept fin-induced flow field with different height mounting gaps. Chinese Journal of Aeronautics, 2021, 34, 148-162. | 5.3 | 10 |

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|----|--|-----|-----------|
| 37 | Preparation of Disperse Silver Particles by Chemical Reduction. Russian Journal of Physical Chemistry A, 2016, 90, 848-855. | 0.6 | 9 |
| 38 | 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 |
| 39 | Influences of Steps on the Hypersonic Boundary-Layer Transition on a Cone. AIAA Journal, 2021, 59, 439-446. | 2.6 | 9 |
| 40 | Experimental Investigation on the Effects of Swept Angles on Blunt Fin-Induced Flow. AIAA Journal, 2015, 53, 2805-2810. | 2.6 | 8 |
| 41 | Multi-resolution analysis of aero-optical effects in a supersonic turbulent boundary layer. Applied Optics, 2021, 60, 2242. | 1.8 | 8 |
| 42 | Design and performance of a hypersonic quiet wind tunnel at NUDT. , 2017, , . | | 7 |
| 43 | Experimental Investigation of the Hypersonic Boundary Layer Transition on a 45° Swept Flat Plate. Fluid Dynamics, 2020, 55, 111-120. | 0.9 | 7 |
| 44 | Experimental investigation of supersonic turbulent flow over cylinders with various heights. Journal of Visualization, 2021, 24, 461-470. | 1.8 | 7 |
| 45 | 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 |
| 46 | Structures and aero-optical effects of supersonic flow over a backward facing step with vortex generators. European Journal of Mechanics, B/Fluids, 2019, 74, 302-311. | 2.5 | 6 |
| 47 | 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 |
| 48 | Influence of cooling film pressure on the imaging quality of a hypersonic optical dome. Optical Engineering, 2020, 59, 1. | 1.0 | 5 |
| 49 | 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 |
| 50 | Modeling the temporal evolution of an aero-optical aberration with the minimum description length principle. Optics Letters, 2014, 39, 3126. | 3.3 | 4 |
| 51 | Experimental investigation on aero-optical aberration of shock wave/boundary layer interactions. , 2016, , . | | 3 |
| 52 | 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 |
| 53 | Aero-optical testing of a Mach 3 cooling film. Optik, 2021, 225, 165721. | 2.9 | 3 |
| 54 | Analyzing the structure of the optical path difference of the supersonic film cooling. , 2016, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Delaying hypersonic boundary layer transition using forward-facing step arrays: An experimental work. <i>Physics of Fluids</i> , 2022, 34, . | 4.0 | 3 |
| 56 | Effects of Backward-Facing Step Shape on Hypersonic Flow Characteristics. <i>Journal of Thermophysics and Heat Transfer</i> , 2022, 36, 296-302. | 1.6 | 2 |
| 57 | Complex Interaction Between a Fin and a Transverse Jet at Mach 5. <i>AIAA Journal</i> , 2020, 58, 802-813. | 2.6 | 1 |
| 58 | Research on head cooling of high-speed aircraft by liquid nitrogen. <i>Aeronautical Journal</i> , 2021, 125, 389-409. | 1.6 | 1 |
| 59 | Study on the temporal and spatial characteristics of high-speed turbulent flow field and its optical transmission effects. <i>Proceedings of SPIE</i> , 2011, , . | 0.8 | 0 |
| 60 | Experimental investigation of supersonic flow over elliptic surface. <i>Open Physics</i> , 2013, 11, . | 1.7 | 0 |
| 61 | Research on correction of imaging deviation based on background-oriented schlieren technique. <i>Optik</i> , 2020, 224, 165692. | 2.9 | 0 |
| 62 | Numerical simulation of film cooling effect and aero-optical effect of optical window. , 2019, , . | | 0 |