# Zhiwei Shi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1818677/publications.pdf

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| 37 | 336 | 1040056 | 940533 |
|---|---|---|---|
| papers | citations | 9 h-index | 16 g-index |

| 37 | 37 | 37 | 198 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Energy optimization and investigation for Z-shaped sun-tracking morphing-wing solar-powered UAV. Aerospace Science and Technology, 2019, 91, 1-11. | 4.8 | 38 |
| 2 | The study of flow separation control by a nanosecond pulse discharge actuator. Experimental Thermal and Fluid Science, 2016, 74, 110-121. | 2.7 | 34 |
| 3 | Topological structures of vortex flow on a flying wing aircraft, controlled by a nanosecond pulse discharge plasma actuator. Applied Physics Letters, 2016, 108, . | 3.3 | 25 |
| 4 | Study on inner characteristics of plasma synthetic jet actuator and geometric effects. Aerospace Science and Technology, 2020, 105, 106044. | 4.8 | 25 |
| 5 | Experimental study on frequency characteristics of the actuations produced by plasma synthetic jet actuator and its geometric effects. Physics of Fluids, 2021, 33, . | 4.0 | 25 |
| 6 | Effect of solar cell efficiency and flight condition on optimal flight control and energy performance for Z-shaped wing stratospheric solar aircraft. Acta Astronautica, 2019, 164, 366-375. | 3.2 | 14 |
| 7 | Theoretical study on energy performance of a stratospheric solar aircraft with optimum Î›-shaped rotatable wing. Aerospace Science and Technology, 2020, 98, 105670. | 4.8 | 14 |
| 8 | Effect of wingtip connection on the energy and flight endurance performance of solar aircraft. Aerospace Science and Technology, 2021, 108, 106404. | 4.8 | 12 |
| 9 | Aerodynamic Characteristics and Flight Testing of a UAV without Control Surfaces Based on Circulation Control. Journal of Aerospace Engineering, 2019, 32, . | 1.4 | 11 |
| 10 | Investigation of vertical tail buffeting alleviation controlled by nanosecond plasma actuators. Physics of Fluids, 2021, 33, . | 4.0 | 11 |
| 11 | An internal model frame-based disturbance attenuation control scheme for quad-rotors transporting unknown payloads. Transactions of the Institute of Measurement and Control, 2019, 41, 3991-4000. | 1.7 | 10 |
| 12 | Virtual flight test techniques to predict a blended-wing-body aircraft in-flight departure characteristics. Chinese Journal of Aeronautics, 2022, 35, 215-225. | 5.3 | 10 |
| 13 | Study on propagation mechanisms of the actuations generated by plasma synthetic jet actuator in a supersonic flow. Aerospace Science and Technology, 2022, 126, 107644. | 4.8 | 10 |
| 14 | Theoretical study on regular reflection of shock waveâ€“boundary layer interactions. Journal of Fluid Mechanics, 2020, 899, . | 3.4 | 9 |
| 15 | Aerodynamic interference test of quad tilt rotor aircraft in wind tunnel. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5553-5566. | 1.3 | 8 |
| 16 | On evolution of flow structures induced by nanosecond pulse discharge inside a plasma synthetic jet actuator. Japanese Journal of Applied Physics, 2019, 58, 028002. | 1.5 | 8 |
| 17 | Stall flutter suppression of NACA 0012 airfoil based on steady blowing. Journal of Fluids and Structures, 2022, 109, 103472. | 3.4 | 8 |
| 18 | Analytical Model: Characteristics of Nanosecond Pulsed Plasma Synthetic Jet Actuator in Multiple-Pulsed Mode. Advances in Applied Mathematics and Mechanics, 2017, 9, 439-462. | 1.2 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Self-learned suppression of roll oscillations based on model-free reinforcement learning. Aerospace Science and Technology, 2021, 116, 106850. | 4.8 | 7 |
| 20 | Numerical Investigation on Flow Control of a Hypersonic Airfoil by Plasma Synthetic Jet. Journal of Aerospace Engineering, 2022, 35, . | 1.4 | 7 |
| 21 | Roll aerodynamic characteristics study of an unmanned aerial vehicle based on circulation control technology. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 871-882. | 1.3 | 5 |
| 22 | Flight trajectory optimization of sun-tracking solar aircraft under the constraint of mission region. Chinese Journal of Aeronautics, 2021, 34, 140-153. | 5.3 | 5 |
| 23 | Experimental investigation of wing-body rock with nonzero equilibrium roll angles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 771-782. | 1.3 | 4 |
| 24 | Yaw control of a flying-wing unmanned aerial vehicle based on reverse jet control. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 1237-1255. | 1.3 | 4 |
| 25 | The suppression of flying-wing roll oscillations with open and closed-loop spanwise blowing. Aerospace Science and Technology, 2020, 99, 105766. | 4.8 | 4 |
| 26 | Vortex breakdown characteristics of flying wing aircraft based on jet flow control. Physics of Fluids, 2022, 34, 025112. | 4.0 | 4 |
| 27 | Study of the airflow induced by a sliding discharge plasma actuator. Modern Physics Letters B, 2019, 33, 1950011. | 1.9 | 3 |
| 28 | Experimental investigation of influence of sliding discharge DBD plasma on low-speed boundary layer. AIP Advances, 2020, 10, 035108. | 1.3 | 3 |
| 29 | Nonlinear interactions in a hypersonic boundary layer. AIP Advances, 2021, 11, 035104. | 1.3 | 3 |
| 30 | Experimental investigation of flow control of a curved-surface jet at Mach 5 hypersonic flow. Physics of Fluids, 0, , . | 4.0 | 3 |
| 31 | A new hybrid mechanism for dynamic wind tunnel test of high maneuverable air vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1964-1974. | 1.3 | 2 |
| 32 | Experimental investigation of the effects of sideslip on canard-configuration aircraft at high angle of attack. AIP Advances, 2019, 9, 055114. | 1.3 | 1 |
| 33 | Aerodynamic characteristics of hypersonic airfoils based on jet flow control technology. AIP Advances, 2021, 11, 035036. | 1.3 | 1 |
| 34 | Modeling and simulation of UAV static soaring based on multi-hole probe. AIP Advances, 2021, 11, 075309. | 1.3 | 1 |
| 35 | Aerodynamic actuation characteristic research of array plasma synthetic jet actuator. , 2017, , . | | 0 |
| 36 | Empirical mode decomposition of ship hull pressure fluctuation induced by cavitating propeller. AIP Advances, 2021, 11, 085008. | 1.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 10.1063/5.0062660.1. , 2021, , . | | 0 |