

Zhiwei Shi

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

336
citations

1040056

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h-index

940533

16
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37
all docs

37
docs citations

37
times ranked

198
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Stall flutter suppression of NACA 0012 airfoil based on steady blowing. Journal of Fluids and Structures, 2022, 109, 103472.	3.4	8
3	Vortex breakdown characteristics of flying wing aircraft based on jet flow control. Physics of Fluids, 2022, 34, 025112.	4.0	4
4	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
5	Numerical Investigation on Flow Control of a Hypersonic Airfoil by Plasma Synthetic Jet. Journal of Aerospace Engineering, 2022, 35, .	1.4	7
6	Effect of wingtip connection on the energy and flight endurance performance of solar aircraft. Aerospace Science and Technology, 2021, 108, 106404.	4.8	12
7	Nonlinear interactions in a hypersonic boundary layer. AIP Advances, 2021, 11, 035104.	1.3	3
8	Aerodynamic characteristics of hypersonic airfoils based on jet flow control technology. AIP Advances, 2021, 11, 035036.	1.3	1
9	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
10	Modeling and simulation of UAV static soaring based on multi-hole probe. AIP Advances, 2021, 11, 075309.	1.3	1
11	Empirical mode decomposition of ship hull pressure fluctuation induced by cavitating propeller. AIP Advances, 2021, 11, 085008.	1.3	0
12	10.1063/5.0062660.1., 2021, , .		0
13	Investigation of vertical tail buffeting alleviation controlled by nanosecond plasma actuators. Physics of Fluids, 2021, 33, .	4.0	11
14	Self-learned suppression of roll oscillations based on model-free reinforcement learning. Aerospace Science and Technology, 2021, 116, 106850.	4.8	7
15	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
16	Theoretical study on energy performance of a stratospheric solar aircraft with optimum \hat{L} -shaped rotatable wing. Aerospace Science and Technology, 2020, 98, 105670.	4.8	14
17	Study on inner characteristics of plasma synthetic jet actuator and geometric effects. Aerospace Science and Technology, 2020, 105, 106044.	4.8	25
18	Theoretical study on regular reflection of shock wave- \hat{L} -boundary layer interactions. Journal of Fluid Mechanics, 2020, 899, .	3.4	9

#	ARTICLE	IF	CITATIONS
19	Experimental investigation of influence of sliding discharge DBD plasma on low-speed boundary layer. AIP Advances, 2020, 10, 035108.	1.3	3
20	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
21	The suppression of flying-wing roll oscillations with open and closed-loop spanwise blowing. Aerospace Science and Technology, 2020, 99, 105766.	4.8	4
22	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
23	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
24	Study of the airflow induced by a sliding discharge plasma actuator. Modern Physics Letters B, 2019, 33, 1950011.	1.9	3
25	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
26	Experimental investigation of the effects of sideslip on canard-configuration aircraft at high angle of attack. AIP Advances, 2019, 9, 055114.	1.3	1
27	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
28	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
29	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
30	Aerodynamic Characteristics and Flight Testing of a UAV without Control Surfaces Based on Circulation Control. Journal of Aerospace Engineering, 2019, 32, .	1.4	11
31	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
32	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
33	Aerodynamic actuation characteristic research of array plasma synthetic jet actuator. , 2017, , .		0
34	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
35	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
36	The study of flow separation control by a nanosecond pulse discharge actuator. Experimental Thermal and Fluid Science, 2016, 74, 110-121.	2.7	34

#	ARTICLE	IF	CITATIONS
37	Experimental investigation of flow control of a curved-surface jet at Mach 5 hypersonic flow. Physics of Fluids, 0, , .	4.0	3