

# Jianghao Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

532  
citations

623734

14  
h-index

677142

22  
g-index

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39  
docs citations

39  
times ranked

274  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Reynolds number on leading-edge vortex formation dynamics and stability in revolving wings. <i>Journal of Fluid Mechanics</i> , 2022, 931, .	3.4	17
2	Aerodynamic performance of a self-propelled airfoil with a non-zero angle of attack. <i>Physics of Fluids</i> , 2022, 34, 031901.	4.0	5
3	Effects of bore-hole design on the aerodynamics of a flapping rotary wing in forward flight. <i>Aerospace Science and Technology</i> , 2022, 127, 107671.	4.8	3
4	Energy-Based Aerodynamic Analysis on the Blended-Wing-Body Aircraft with Boundary Layer Ingestion. <i>International Journal of Aerospace Engineering</i> , 2022, 2022, 1-19.	0.9	0
5	Unsteady aerodynamics of a micro flapping rotary wing in forward flight. <i>Aerospace Science and Technology</i> , 2021, 111, 106530.	4.8	7
6	Elastodynamic model for flapping-wing micro aerial vehicle. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 065009.	2.9	3
7	Power Fan Design of Blended-Wing-Body Aircraft with Distributed Propulsion System. <i>International Journal of Aerospace Engineering</i> , 2021, 2021, 1-18.	0.9	2
8	Effect of passive wing pitching on flight control in a hovering model insect and flapping-wing micro air vehicle. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 065003.	2.9	2
9	Kinematics, Deformation, and Aerodynamics of a Flexible Flapping Rotary Wing in Hovering Flight. <i>Journal of Bionic Engineering</i> , 2021, 18, 197-209.	5.0	6
10	Effect of flexibility on unsteady aerodynamics forces of a purely plunging airfoil. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 88-101.	5.3	16
11	Leading-edge vortex formation and transient lift generation on a revolving wing at low Reynolds number. <i>Aerospace Science and Technology</i> , 2020, 97, 105589.	4.8	24
12	Topology optimization in lightweight design of a 3D-printed flapping-wing micro aerial vehicle. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 3206-3219.	5.3	16
13	Wing rapid responses and aerodynamics of fruit flies during headwind gust perturbations. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056001.	2.9	8
14	Aerodynamics and dynamic stability of micro-air-vehicle with four flapping wings in hovering flight. <i>Advances in Aerodynamics</i> , 2020, 2, .	2.5	4
15	The role of effective angle of attack in hovering pitching-flapping-perturbed revolving wings at low Reynolds number. <i>Physics of Fluids</i> , 2020, 32, .	4.0	14
16	Effects of timing and magnitude of wing stroke-plane tilt on the escape maneuverability of flapping wing. <i>Bioinspiration and Biomimetics</i> , 2020, 16, 016010.	2.9	1
17	An Automated Visible / Infrared Image Analysis System of Unmanned Aerial Vehicles (UAVs). , 2020, , .		2
18	Aerodynamic mechanisms in bio-inspired micro air vehicles: a review in the light of novel compound layouts. <i>IET Cyber-Systems and Robotics</i> , 2019, 1, 2-12.	1.8	9

#	ARTICLE	IF	CITATIONS
19	Aerodynamic Performance of a Passive Pitching Model on Bionic Flapping Wing Micro Air Vehicles. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-12.	1.1	6
20	Volumetric measurement and vorticity dynamics of leading-edge vortex formation on a revolving wing. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	23
21	Structural integrity analysis of transmission structure in flapping-wing micro aerial vehicle via 3D printing. <i>Engineering Failure Analysis</i> , 2019, 96, 18-30.	4.0	16
22	Aerodynamics of a Flapping-Perturbed Revolving Wing. <i>AIAA Journal</i> , 2019, 57, 3728-3743.	2.6	23
23	Multiple Ship Targets Association Method of Remote Sensing Images Based on SIFT and Bags of Visual Words Model. , 2019, , .		1
24	Effects of Geometric Parameters on Flapping Rotary Wings at Low Reynolds Numbers. <i>AIAA Journal</i> , 2018, 56, 1372-1387.	2.6	10
25	Unsteady Aerodynamic Forces and Power Consumption of a Micro Flapping Rotary Wing in Hovering Flight. <i>Journal of Bionic Engineering</i> , 2018, 15, 298-312.	5.0	12
26	Study on lift enhancement of a flapping rotary wing by a bore-hole design. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2018, 232, 1315-1333.	1.3	9
27	Aerodynamics and Propulsive Efficiency of a Blended-Wing-Body Aircraft with Distributed Propulsion System During Takeoff. <i>International Journal of Aeronautical and Space Sciences</i> , 2018, 19, 799-804.	2.0	3
28	Unsteady aerodynamics of a pitching-flapping-perturbed revolving wing at low Reynolds number. <i>Physics of Fluids</i> , 2018, 30, 051903.	4.0	34
29	Automated Kinematics Measurement and Aerodynamics of a Bioinspired Flapping Rotary Wing. <i>Journal of Bionic Engineering</i> , 2017, 14, 726-737.	5.0	11
30	Aerodynamic Analysis of a Flapping Rotary Wing at a Low Reynolds Number. <i>AIAA Journal</i> , 2015, 53, 2951-2966.	2.6	44
31	Effects of kinematics on aerodynamic periodicity for a periodically plunging airfoil. <i>Theoretical and Computational Fluid Dynamics</i> , 2015, 29, 433-454.	2.2	4
32	Experimental study on the lift generated by a flapping rotary wing applied in a micro air vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2014, 228, 2083-2093.	1.3	37
33	Aerodynamics On Flapping Rotary Wing In Low Reynolds Number. , 2013, , .		4
34	Theoretical and experimental study of a piezoelectric flapping wing rotor for micro aerial vehicle. <i>Aerospace Science and Technology</i> , 2012, 23, 429-438.	4.8	67
35	Control for going from hovering to small speed flight of a model insect. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009, 25, 295-302.	3.4	21
36	An improved known vicinity algorithm based on geometry test for particle localization in arbitrary grid. <i>Journal of Computational Physics</i> , 2009, 228, 9001-9019.	3.8	5

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37	Aerodynamic Characteristics of the Crest with Membrane Attachment on Cretaceous Pterodactyloid <i>Nyctosaurus</i> . <i>Acta Geologica Sinica</i> , 2009, 83, 25-32.	1.4	9
38	Unsteady aerodynamic forces and power requirements of a bumblebee in forward flight. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 207-217.	3.4	19
39	The influence of the wake of a flapping wing on the production of aerodynamic forces. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 411-418.	3.4	35