Jianghao Wu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3181548/publications.pdf

Version: 2024-02-01

39 papers	532 citations	623734 14 h-index	677142 22 g-index
39 all docs	39 docs citations	39 times ranked	274 citing authors

#	Article	IF	Citations
1	Theoretical and experimental study of a piezoelectric flapping wing rotor for micro aerial vehicle. Aerospace Science and Technology, 2012, 23, 429-438.	4.8	67
2	Aerodynamic Analysis of a Flapping Rotary Wing at a Low Reynolds Number. AIAA Journal, 2015, 53, 2951-2966.	2.6	44
3	Experimental study on the lift generated by a flapping rotary wing applied in a micro air vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 2083-2093.	1.3	37
4	The influence of the wake of a flapping wing on the production of aerodynamic forces. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 411-418.	3.4	35
5	Unsteady aerodynamics of a pitching-flapping-perturbed revolving wing at low Reynolds number. Physics of Fluids, 2018, 30, 051903.	4.0	34
6	Leading-edge vortex formation and transient lift generation on a revolving wing at low Reynolds number. Aerospace Science and Technology, 2020, 97, 105589.	4.8	24
7	Volumetric measurement and vorticity dynamics of leading-edge vortex formation on a revolving wing. Experiments in Fluids, 2019, 60, 1.	2.4	23
8	Aerodynamics of a Flapping-Perturbed Revolving Wing. AIAA Journal, 2019, 57, 3728-3743.	2.6	23
9	Control for going from hovering to small speed flight of a model insect. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 295-302.	3.4	21
10	Unsteady aerodynamic forces and power requirements of a bumblebee in forward flight. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 207-217.	3.4	19
11	Effects of Reynolds number on leading-edge vortex formation dynamics and stability in revolving wings. Journal of Fluid Mechanics, 2022, 931, .	3.4	17
12	Structural integrity analysis of transmission structure in flapping-wing micro aerial vehicle via 3D printing. Engineering Failure Analysis, 2019, 96, 18-30.	4.0	16
13	Effect of flexibility on unsteady aerodynamics forces of a purely plunging airfoil. Chinese Journal of Aeronautics, 2020, 33, 88-101.	5.3	16
14	Topology optimization in lightweight design of a 3D-printed flapping-wing micro aerial vehicle. Chinese Journal of Aeronautics, 2020, 33, 3206-3219.	5.3	16
15	The role of effective angle of attack in hovering pitching-flapping-perturbed revolving wings at low Reynolds number. Physics of Fluids, 2020, 32, .	4.0	14
16	Unsteady Aerodynamic Forces and Power Consumption of a Micro Flapping Rotary Wing in Hovering Flight. Journal of Bionic Engineering, 2018, 15, 298-312.	5.0	12
17	Automated Kinematics Measurement and Aerodynamics of a Bioinspired Flapping Rotary Wing. Journal of Bionic Engineering, 2017, 14, 726-737.	5.0	11
18	Effects of Geometric Parameters on Flapping Rotary Wings at Low Reynolds Numbers. AIAA Journal, 2018, 56, 1372-1387.	2.6	10

#	Article	IF	Citations
19	Aerodynamic Characteristics of the Crest with Membrane Attachment on Cretaceous Pterodactyloid Nyctosaurus. Acta Geologica Sinica, 2009, 83, 25-32.	1.4	9
20	Study on lift enhancement of a flapping rotary wing by a bore-hole design. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 1315-1333.	1.3	9
21	Aerodynamic mechanisms in bioâ€inspired micro air vehicles: a review in the light of novel compound layouts. IET Cyber-Systems and Robotics, 2019, 1, 2-12.	1.8	9
22	Wing rapid responses and aerodynamics of fruit flies during headwind gust perturbations. Bioinspiration and Biomimetics, 2020, 15, 056001.	2.9	8
23	Unsteady aerodynamics of a micro flapping rotary wing in forward flight. Aerospace Science and Technology, 2021, 111, 106530.	4.8	7
24	Aerodynamic Performance of a Passive Pitching Model on Bionic Flapping Wing Micro Air Vehicles. Applied Bionics and Biomechanics, 2019, 2019, 1-12.	1.1	6
25	Kinematics, Deformation, and Aerodynamics of a Flexible Flapping Rotary Wing in Hovering Flight. Journal of Bionic Engineering, 2021, 18, 197-209.	5.0	6
26	An improved known vicinity algorithm based on geometry test for particle localization in arbitrary grid. Journal of Computational Physics, 2009, 228, 9001-9019.	3.8	5
27	Aerodynamic performance of a self-propelled airfoil with a non-zero angle of attack. Physics of Fluids, 2022, 34, 031901.	4.0	5
28	Aerodynamics On Flapping Rotary Wing In Low Reynolds Number. , 2013, , .		4
29	Effects of kinematics on aerodynamic periodicity for a periodically plunging airfoil. Theoretical and Computational Fluid Dynamics, 2015, 29, 433-454.	2.2	4
30	Aerodynamics and dynamic stability of micro-air-vehicle with four flapping wings in hovering flight. Advances in Aerodynamics, 2020, 2, .	2.5	4
31	Aerodynamics and Propulsive Efficiency of a Blended-Wing-Body Aircraft with Distributed Propulsion System During Takeoff. International Journal of Aeronautical and Space Sciences, 2018, 19, 799-804.	2.0	3
32	Elastodynamic model for flapping-wing micro aerial vehicle. Bioinspiration and Biomimetics, 2021, 16, 065009.	2.9	3
33	Effects of bore-hole design on the aerodynamics of a flapping rotary wing in forward flight. Aerospace Science and Technology, 2022, 127, 107671.	4.8	3
34	Power Fan Design of Blended-Wing-Body Aircraft with Distributed Propulsion System. International Journal of Aerospace Engineering, 2021, 2021, 1-18.	0.9	2
35	Effect of passive wing pitching on flight control in a hovering model insect and flapping-wing micro air vehicle. Bioinspiration and Biomimetics, 2021, 16, 065003.	2.9	2
36	An Automated Visible / Infrared Image Analysis System of Unmanned Aerial Vehicles (UAVs). , 2020, , .		2

#	Article	IF	Citations
37	Multiple Ship Targets Association Method of Remote Sensing Images Based on SIFT and Bags of Visual Words Model. , 2019, , .		1
38	Effects of timing and magnitude of wing stroke-plane tilt on the escape maneuverability of flapping wing. Bioinspiration and Biomimetics, 2020, 16, 016010.	2.9	1
39	Energy-Based Aerodynamic Analysis on the Blended-Wing-Body Aircraft with Boundary Layer Ingestion. International Journal of Aerospace Engineering, 2022, 2022, 1-19.	0.9	0