

Aimy Wissa

List of Publications by Year in descending order

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34
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docs citations

34
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Design and Evaluation of a Novel Modular Origami-Enabled Mobile Robot (OSCAR). Journal of Mechanisms and Robotics, 2023, 15, .	2.2	2
2	Addressing Diverse Motivations to Enable Bioinspired Design. Integrative and Comparative Biology, 2022, 62, 1192-1201.	2.0	2
3	Numerical and Experimental Study of a Covert-Inspired Passively Deployable Flap for Aerodynamic Lift Enhancement. , 2022, , .		3
4	Nonlinear elasticity and damping govern ultrafast dynamics in click beetles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
5	Covert-inspired flaps for lift enhancement and stall mitigation. Bioinspiration and Biomimetics, 2021, 16, .	2.9	10
6	Model-based design of a multistable origami-enabled crawling robot. Smart Materials and Structures, 2020, 29, 015013.	3.5	16
7	Dynamic characterization of a bio-inspired variable stiffness multi-winglet device. , 2020, , .		2
8	The function of the alula on engineered wings: a detailed experimental investigation of a bioinspired leading-edge device. Bioinspiration and Biomimetics, 2019, 14, 056015.	2.9	21
9	Latching of the click beetle (Coleoptera: Elateridae) thoracic hinge enabled by the morphology and mechanics of conformal structures. Journal of Experimental Biology, 2019, 222, .	1.7	27
10	Path Following for the Soft Origami Crawling Robot. , 2019, , .		2
11	Adaptive and compliant wingtip devices enabled by additive manufacturing and multistable structures. , 2019, , .		1
12	Bioinspired wingtip devices: a pathway to improve aerodynamic performance during low Reynolds number flight. Bioinspiration and Biomimetics, 2018, 13, 036003.	2.9	27
13	Design Optimization of a Covert Feather-Inspired Deployable Structure for Increased Lift. , 2018, , .		4
14	A Metameric Crawling Robot Enabled by Origami and Smart Materials. , 2017, , .		4
15	Recent advances in adaptive and active materials 2016. Smart Materials and Structures, 2017, 26, 090201.	3.5	0
16	Pop! Observing and Modeling the Legless Self-righting Jumping Mechanism of Click Beetles. Lecture Notes in Computer Science, 2017, , 35-47.	1.3	10
17	Adaptive and active materials: selected papers from the ASME 2015 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 15) (Colorado Springs, CO, USA, 21â€“23 September) Tj ETQ 0.784314 rgB	2.1	10
18	Analytical model and stability analysis of the leading edge spar of a passively morphing ornithopter wing. Bioinspiration and Biomimetics, 2015, 10, 065003.	2.9	9

#	ARTICLE	IF	CITATIONS
19	Wings of a Feather Stick Together: Morphing Wings with Barbule-Inspired Latching. Lecture Notes in Computer Science, 2015, , 123-134.	1.3	8
20	Free Flight Testing and Performance Evaluation of a Passively Morphing Ornithopter. International Journal of Micro Air Vehicles, 2015, 7, 21-40.	1.3	10
21	Design optimization of a twist compliant mechanism with nonlinear stiffness. Smart Materials and Structures, 2014, 23, 104010.	3.5	6
22	Optimization of a Bend-Twist-and-Sweep Compliant Mechanism. , 2014, , .		2
23	Design and Optimization of a Contact-Aided Compliant Mechanism for Passive Bending. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	21
24	Stability Analysis of the Wing Leading Edge Spar of a Passively Morphing Ornithopter. , 2014, , .		1
25	Inertial Effects Due to Passive Wing Morphing in Ornithopters. , 2014, , .		2
26	Design and optimization of a bend-and-sweep compliant mechanism. Smart Materials and Structures, 2013, 22, 094019.	3.5	16
27	Design Optimization of a Twist Compliant Mechanism With Nonlinear Stiffness. , 2013, , .		3
28	Flight Testing of Novel Compliant Spines for Passive Wing Morphing on Ornithopters. , 2013, , .		7
29	Design and Optimization of a Bend-and-Sweep Compliant Mechanism. , 2013, , .		1
30	Passively morphing ornithopter wings constructed using a novel compliant spine: design and testing. Smart Materials and Structures, 2012, 21, 094028.	3.5	30
31	Design of Bend-and-Sweep Compliant Mechanism for Passive Shape Change. , 2012, , .		2
32	Design Optimization of a Compliant Spine for Dynamic Applications. , 2011, , .		6
33	Testing of Novel Compliant Spines for Passive Wing Morphing. , 2011, , .		8
34	Design of a Passively Morphing Ornithopter Wing Using a Novel Compliant Spine. , 2010, , .		9