

Sawyer B Fuller

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,740
citations

759233

12
h-index

1058476

14
g-index

30
all docs

30
docs citations

30
times ranked

1728
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Flight of a Biologically Inspired, Insect-Scale Robot. <i>Science</i> , 2013, 340, 603-607.	12.6	873
2	A fast flexible ink-jet printing method for patterning dissociated neurons in culture. <i>Journal of Neuroscience Methods</i> , 2004, 136, 151-163.	2.5	205
3	Controlling free flight of a robotic fly using an onboard vision sensor inspired by insect ocelli. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140281.	3.4	98
4	Liftoff of a 190 mg Laser-Powered Aerial Vehicle: The Lightest Wireless Robot to Fly. , 2018, , .		78
5	Living IoT. , 2019, , .		61
6	Wireless steerable vision for live insects and insect-scale robots. <i>Science Robotics</i> , 2020, 5, .	17.6	50
7	Four Wings: An Insect-Sized Aerial Robot With Steering Ability and Payload Capacity for Autonomy. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 570-577.	5.1	48
8	A bio-hybrid odor-guided autonomous palm-sized air vehicle. <i>Bioinspiration and Biomimetics</i> , 2020, 16, 026002.	2.9	36
9	Estimating attitude and wind velocity using biomimetic sensors on a microrobotic bee. , 2013, , .		33
10	Spiking neural network (SNN) control of a flapping insect-scale robot. , 2016, , .		33
11	RoboFly: An Insect-Sized Robot With Simplified Fabrication That Is Capable of Flight, Ground, and Water Surface Locomotion. <i>IEEE Transactions on Robotics</i> , 2021, 37, 2025-2040.	10.3	26
12	A Device for Rapid, Automated Trimming of Insect-Sized Flying Robots. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 1373-1380.	5.1	19
13	A hovercraft robot that uses insect-inspired visual autocorrelation for motion control in a corridor. , 2011, , .		18
14	A New Robot Fly Design That is Easier to Fabricate and Capable of Flight and Ground Locomotion. , 2018, , .		18
15	Yaw Control of a Hovering Flapping-Wing Aerial Vehicle With a Passive Wing Hinge. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1864-1871.	5.1	15
16	Biologically Inspired Feedback Design for <i>Drosophila</i> Flight. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	14
17	Stabilizing air dampers for hovering aerial robotics: design, insect-scale flight tests, and scaling. <i>Autonomous Robots</i> , 2017, 41, 1555-1573.	4.8	13
18	A laser-microfabricated electrohydrodynamic thruster for centimeter-scale aerial robots. <i>PLoS ONE</i> , 2020, 15, e0231362.	2.5	13

#	ARTICLE	IF	CITATIONS
19	A bio-plausible design for visual attitude stabilization. , 2009, , .		12
20	An Insect-Sized Robot That Uses a Custom-Built Onboard Camera and a Neural Network to Classify and Respond to Visual Input. , 2018, , .		11
21	The “Smellicopter,” a bio-hybrid odor localizing nano air vehicle. , 2019, , .		11
22	Altitude Estimation and Control of an Insect-Scale Robot with an Onboard Proximity Sensor. Springer Proceedings in Advanced Robotics, 2018, , 57-69.	1.3	9
23	Ultralow-Power Localization of Insect-Scale Drones: Interplay of Probabilistic Filtering and Compute-in-Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 68-80.	3.1	9
24	Rapid Inertial Reorientation of an Aerial Insect-sized Robot Using a Piezo-actuated Tail. , 2019, , .		8
25	Toward battery-free flight: Duty cycled recharging of small drones. , 2021, , .		8
26	Rotating the heading angle of underactuated flapping-wing flyers by wriggle-steering. , 2015, , .		6
27	A blade element approach to modeling aerodynamic flight of an insect-scale robot. , 2017, , .		5
28	A high-voltage power electronics unit for flying insect robots that can modulate wing thrust. , 2021, , .		5
29	Towards Sensor Autonomy in Sub-Gram Flying Insect Robots: A Lightweight and Power-Efficient Avionics System. , 2022, , .		3
30	Quadrobee: Simulating flapping wing aerial vehicle dynamics on a quadrotor. , 2017, , .		2