Sanjay P Sane

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6354890/publications.pdf

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44	6,443	361045	301761
papers	citations	20 h-index	39 g-index

56	56	56	2591
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wing Rotation and the Aerodynamic Basis of Insect Flight. Science, 1999, 284, 1954-1960.	6.0	2,314
2	The aerodynamics of insect flight. Journal of Experimental Biology, 2003, 206, 4191-4208.	0.8	1,012
3	The aerodynamic effects of wing rotation and a revised quasi-steady model of flapping flight. Journal of Experimental Biology, 2002, 205, 1087-1096.	0.8	616
4	The control of flight force by a flapping wing: lift and drag production. Journal of Experimental Biology, 2001, 204, 2607-2626.	0.8	601
5	The aerodynamic effects of wing rotation and a revised quasi-steady model of flapping flight. Journal of Experimental Biology, 2002, 205, 1087-96.	0.8	368
6	Antennal Mechanosensors Mediate Flight Control in Moths. Science, 2007, 315, 863-866.	6.0	260
7	Aerodynamic effects of flexibility in flapping wings. Journal of the Royal Society Interface, 2010, 7, 485-497.	1.5	222
8	The aerodynamic effects of wingâ€“wing interaction in flapping insect wings. Journal of Experimental Biology, 2005, 208, 3075-3092.	0.8	172
9	Induced airflow in flying insects II. Measurement of induced flow. Journal of Experimental Biology, 2006, 209, 43-56.	0.8	90
10	Biomechanical basis of wing and haltere coordination in flies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1481-1486.	3.3	71
11	The biomechanics of sensory organs. Integrative and Comparative Biology, 2009, 49, i8-i23.	0.9	55
12	The neural mechanisms of antennal positioning in flying moths. Journal of Experimental Biology, 2012, 215, 3096-105.	0.8	53
13	Mechanics of the thorax in flies. Journal of Experimental Biology, 2017, 220, 1382-1395.	0.8	51
14	Neural Control of Wing Coordination in Flies. Current Biology, 2015, 25, 80-86.	1.8	43
15	Induced airflow in flying insects I. A theoretical model of the induced flow. Journal of Experimental Biology, 2006, 209, 32-42.	0.8	42
16	The biomechanics of fast prey capture in aquatic bladderworts. Biology Letters, 2011, 7, 547-550.	1.0	40
17	Neurobiology and biomechanics of flight in miniature insects. Current Opinion in Neurobiology, 2016, 41, 158-166.	2.0	39
18	Flies land upside down on a ceiling using rapid visually mediated rotational maneuvers. Science Advances, 2019, 5, eaax1877.	4.7	35

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19	Odor source localization in complex visual environments by fruit flies. Journal of Experimental Biology, 2018, 221, .	0.8	33
20	Orientation in high-flying migrant insects in relation to flows: mechanisms and strategies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150392.	1.8	31
21	The roles of vision and antennal mechanoreception in hawkmoth flight control. ELife, 2018, 7, .	2.8	27
22	Airflow and optic flow mediate antennal positioning in flying honeybees. ELife, 2016, 5, .	2.8	25
23	Antennal Mechanosensors and Their Evolutionary Antecedents. Advances in Insect Physiology, 2015, 49, 59-99.	1.1	24
24	Encoding properties of the mechanosensory neurons in the Johnston's organ of the hawk moth, Manduca sexta. Journal of Experimental Biology, 2014, 217, 3045-56.	0.8	22
25	Visual feedback influences antennal positioning in flying hawk moths. Journal of Experimental Biology, 2014, 217, 908-17.	0.8	19
26	Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. Current Biology, 2019, 29, 283-293.e5.	1.8	19
27	Pitching Moment Generation in an Insect-Mimicking Flapping-Wing System. Journal of Bionic Engineering, 2014, 11, 36-51.	2.7	18
28	Antennal regulation of migratory flight in the neotropical mothUrania fulgens. Biology Letters, 2010, 6, 406-409.	1.0	17
29	The mechanosensoryâ€motor apparatus of antennae in the Oleander hawk moth (Daphnis nerii,) Tj ETQq1 1 0.784314 rgBT /Ov	0.9	17
30	Landing maneuvers of houseflies on vertical and inverted surfaces. PLoS ONE, 2019, 14, e0219861.	1.1	17
31	STEADY OR UNSTEADY? UNCOVERING THE AERODYNAMIC MECHANISMS OF INSECT FLIGHT. Journal of Experimental Biology, 2011, 214, 349-351.	0.8	15
32	Tuneable reflexes control antennal positioning in flying hawkmoths. Nature Communications, 2019, 10, 5593.	5.8	12
33	Wings and halteres act as coupled dual oscillators in flies. ELife, 2021, 10, .	2.8	10
34	Gene Regulation and Species-Specific Evolution of Free Flight Odor Tracking in Drosophila. Molecular Biology and Evolution, 2018, 35, 3-15.	3.5	9
35	Evidence for facultative migratory flight behavior in Helicoverpa armigera (Noctuidae: Lepidoptera) in India. PLoS ONE, 2021, 16, e0245665.	1.1	8
36	Effectiveness and efficiency of two distinct mechanisms for take-off in a derbid planthopper insect. Journal of Experimental Biology, 2019, 222, .	0.8	7

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37	Evolutionary constraints on flicker fusion frequency in Lepidoptera. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 671-681.	0.7	7
38	Insect architecture: structural diversity and behavioral principles. Current Opinion in Insect Science, 2020, 42, 39-46.	2.2	6
39	Integration of visual and antennal mechanosensory feedback during head stabilization in hawkmoths. ELife, 0, 11, .	2.8	5
40	Enhancing insect flight research with a lab-on-cables. Science Robotics, 2020, 5, .	9.9	1
41	Eppur si vola (and yet it flies). Journal of Experimental Biology, 2017, 220, 514-516.	0.8	0
42	Fairyflies. Current Biology, 2018, 28, R1331-R1332.	1.8	0
43	Editorial overview: Insect-inspired engineering: mechanisms, processes and algorithms. Current Opinion in Insect Science, 2020, 42, vi-viii.	2.2	0
44	Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. SSRN Electronic Journal, 0, , .	0.4	0