

Stanley Heinze

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6293239/publications.pdf>

Version: 2024-02-01

50
papers

2,993
citations

304743

22
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Maplike Representation of Celestial <i>E</i> -Vector Orientations in the Brain of an Insect. <i>Science</i> , 2007, 315, 995-997.	12.6	335
2	An Anatomically Constrained Model for Path Integration in the Bee Brain. <i>Current Biology</i> , 2017, 27, 3069-3085.e11.	3.9	290
3	Sun Compass Integration of Skylight Cues in Migratory Monarch Butterflies. <i>Neuron</i> , 2011, 69, 345-358.	8.1	227
4	Central neural coding of sky polarization in insects. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 680-687.	4.0	218
5	Anatomical basis of sun compass navigation II: The neuronal composition of the central complex of the monarch butterfly. <i>Journal of Comparative Neurology</i> , 2013, 521, 267-298.	1.6	159
6	Principles of Insect Path Integration. <i>Current Biology</i> , 2018, 28, R1043-R1058.	3.9	145
7	Neuroarchitecture of the central complex of the desert locust: Intrinsic and columnar neurons. <i>Journal of Comparative Neurology</i> , 2008, 511, 454-478.	1.6	144
8	The insect central complex and the neural basis of navigational strategies. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	141
9	Anatomical basis of sun compass navigation I: The general layout of the monarch butterfly brain. <i>Journal of Comparative Neurology</i> , 2012, 520, 1599-1628.	1.6	132
10	Unraveling the neural basis of insect navigation. <i>Current Opinion in Insect Science</i> , 2017, 24, 58-67.	4.4	113
11	Transformation of Polarized Light Information in the Central Complex of the Locust. <i>Journal of Neuroscience</i> , 2009, 29, 11783-11793.	3.6	105
12	Integration of polarization and chromatic cues in the insect sky compass. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 575-89.	1.6	104
13	Linking the Input to the Output: New Sets of Neurons Complement the Polarization Vision Network in the Locust Central Complex. <i>Journal of Neuroscience</i> , 2009, 29, 4911-4921.	3.6	102
14	The Earth's Magnetic Field and Visual Landmarks Steer Migratory Flight Behavior in the Nocturnal Australian Bogong Moth. <i>Current Biology</i> , 2018, 28, 2160-2166.e5.	3.9	94
15	The Australian Bogong Moth <i>Agrotis infusa</i> : A Long-Distance Nocturnal Navigator. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 77.	2.0	80
16	Differential investment in visual and olfactory brain areas reflects behavioural choices in hawk moths. <i>Scientific Reports</i> , 2016, 6, 26041.	3.3	72
17	The locust standard brain: a 3D standard of the central complex as a platform for neural network analysis. <i>Frontiers in Systems Neuroscience</i> , 2009, 3, 21.	2.5	63
18	Anatomical organization of the brain of a diurnal and a nocturnal dung beetle. <i>Journal of Comparative Neurology</i> , 2017, 525, 1879-1908.	1.6	63

#	ARTICLE	IF	CITATIONS
19	Unraveling navigational strategies in migratory insects. <i>Current Opinion in Neurobiology</i> , 2012, 22, 353-361.	4.2	58
20	The head direction circuit of two insect species. <i>ELife</i> , 2020, 9, .	6.0	50
21	A projectome of the bumblebee central complex. <i>ELife</i> , 2021, 10, .	6.0	36
22	Polarized-Light Processing in Insect Brains: Recent Insights from the Desert Locust, the Monarch Butterfly, the Cricket, and the Fruit Fly. , 2014, , 61-111.		34
23	The brain of a nocturnal migratory insect, the Australian Bogong moth. <i>Journal of Comparative Neurology</i> , 2020, 528, 1942-1963.	1.6	31
24	Comparison of Navigation-Related Brain Regions in Migratory versus Non-Migratory Noctuid Moths. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 158.	2.0	26
25	Topographic organization and possible function of the posterior optic tubercles in the brain of the desert locust <i>Schistocerca gregaria</i> . <i>Journal of Comparative Neurology</i> , 2015, 523, 1589-1607.	1.6	24
26	A unified platform to manage, share, and archive morphological and functional data in insect neuroscience. <i>ELife</i> , 2021, 10, .	6.0	21
27	A clearer view of the insect brain—combining bleaching with standard whole-mount immunocytochemistry allows confocal imaging of pigment-covered brain areas for 3D reconstruction. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 121.	1.7	14
28	Neuroethology: Unweaving the Senses of Direction. <i>Current Biology</i> , 2015, 25, R1034-R1037.	3.9	14
29	Neural Coding: Bumps on the Move. <i>Current Biology</i> , 2017, 27, R409-R412.	3.9	12
30	Vector navigation in walking bumblebees. <i>Current Biology</i> , 2022, 32, 2871-2883.e4.	3.9	11
31	A Novel Major Output Target for Pheromone-Sensitive Projection Neurons in Male Moths. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 147.	3.7	9
32	Editorial: The Insect Central Complex—From Sensory Coding to Directing Movement. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 156.	2.0	8
33	Three-Dimensional Atlases of Insect Brains. <i>Neuromethods</i> , 2020, , 73-124.	0.3	7
34	Visual Navigation: Ants Lose Track without Mushroom Bodies. <i>Current Biology</i> , 2020, 30, R984-R986.	3.9	6
35	Bogong moths. <i>Current Biology</i> , 2016, 26, R263-R265.	3.9	5
36	Implementing an Insect Brain Computational Circuit Using III“V Nanowire Components in a Single Shared Waveguide Optical Network. <i>ACS Photonics</i> , 2020, 7, 2787-2798.	6.6	5

#	ARTICLE	IF	CITATIONS
37	Maplike representation of celestial E-vector orientations in the brain of an insect. E-Neuroforum, 2007, 13, 62-63.	0.1	3
38	Polarization Vision. , 2013, , 1-30.		3
39	Mapping the fly's brain in the brain. ELife, 2021, 10, .	6.0	3
40	Polarization Vision. , 2014, , 1-30.		2
41	Anatomical basis of sun compass navigation II: The neuronal composition of the central complex of the monarch butterfly. Journal of Comparative Neurology, 2013, 521, Spc1-Spc1.	1.6	1
42	Neurobiology: Jumping Spiders Getting On Board. Current Biology, 2014, 24, R1042-R1044.	3.9	1
43	Stanley Heinze. Current Biology, 2019, 29, R268-R270.	3.9	1
44	Why flies look to the skies. ELife, 2021, 10, .	6.0	1
45	Anatomical basis of sun compass navigation I: The general layout of the monarch butterfly brain. Journal of Comparative Neurology, 2012, 520, Spc1-Spc1.	1.6	0
46	Editorial overview: Recent advances in insect neuroethology: from sensory processing to circuits controlling internal states. Current Opinion in Insect Science, 2017, 24, iv-vi.	4.4	0
47	Cover Image, Volume 528, Issue 11. Journal of Comparative Neurology, 2020, 528, C4.	1.6	0
48	Optoelectronic III-V nanowire implementation of a neural network in a shared waveguide. , 2020, , .		0
49	Fly navigation: Yet another ring. Current Biology, 2021, 31, R1381-R1383.	3.9	0
50	Polarization Vision. , 2022, , 2812-2838.		0