

Mark A Frye

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,319
citations

159358

30
h-index

168136

53
g-index

84
all docs

84
docs citations

84
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	A visual pathway for skylight polarization processing in <i>Drosophila</i> . <i>ELife</i> , 2021, 10, .	2.8	72
2	Odour boosts visual object approach in flies. <i>Biology Letters</i> , 2021, 17, 20200770.	1.0	6
3	Neuromodulation of insect motion vision. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2020, 206, 125-137.	0.7	28
4	Serotonergic modulation of visual neurons in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2020, 16, e1009003.	1.5	13
5	Fly eyes are not still: a motion illusion in <i>Drosophila</i> flight supports parallel visual processing. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	10
6	Inhibitory Interactions and Columnar Inputs to an Object Motion Detector in <i>Drosophila</i> . <i>Cell Reports</i> , 2020, 30, 2115-2124.e5.	2.9	37
7	Non-canonical Receptive Field Properties and Neuromodulation of Feature-Detecting Neurons in Flies. <i>Current Biology</i> , 2020, 30, 2508-2519.e6.	1.8	36
8	Serotonergic modulation of visual neurons in <i>Drosophila melanogaster</i> . , 2020, 16, e1009003.		0
9	Serotonergic modulation of visual neurons in <i>Drosophila melanogaster</i> . , 2020, 16, e1009003.		0
10	Serotonergic modulation of visual neurons in <i>Drosophila melanogaster</i> . , 2020, 16, e1009003.		0
11	Serotonergic modulation of visual neurons in <i>Drosophila melanogaster</i> . , 2020, 16, e1009003.		0
12	Object features and T4/T5 motion detectors modulate the dynamics of bar tracking by <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	10
13	Visuomotor strategies for object approach and aversion in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	14
14	<i>Drosophila</i> Neuroscience: Should I Land or Should I Jump?. <i>Current Biology</i> , 2019, 29, R1089-R1091.	1.8	0
15	Cell-type-Specific Patterned Stimulus-Independent Neuronal Activity in the <i>Drosophila</i> Visual System during Synapse Formation. <i>Neuron</i> , 2019, 101, 894-904.e5.	3.8	55
16	Olfactory and Neuromodulatory Signals Reverse Visual Object Avoidance to Approach in <i>Drosophila</i> . <i>Current Biology</i> , 2019, 29, 2058-2065.e2.	1.8	32
17	Object-Detecting Neurons in <i>Drosophila</i> . <i>Current Biology</i> , 2017, 27, 680-687.	1.8	105
18	Visual Input to the <i>Drosophila</i> Central Complex by Developmentally and Functionally Distinct Neuronal Populations. <i>Current Biology</i> , 2017, 27, 1098-1110.	1.8	149

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19	Drosophila Spatiotemporally Integrates Visual Signals to Control Saccades. <i>Current Biology</i> , 2017, 27, 2901-2914.e2.	1.8	49
20	Insect Vision: A Neuron that Anticipates an Object's Path. <i>Current Biology</i> , 2017, 27, R1076-R1078.	1.8	0
21	The eyes have it. <i>ELife</i> , 2017, 6, .	2.8	8
22	Group Behavior: Social Context Modulates Behavioral Responses to Sensory Stimuli. <i>Current Biology</i> , 2015, 25, R467-R469.	1.8	1
23	Olfactory Neuromodulation of Motion Vision Circuitry in <i>Drosophila</i> . <i>Current Biology</i> , 2015, 25, 467-472.	1.8	52
24	Neurons Forming Optic Glomeruli Compute Figure-Ground Discriminations in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2015, 35, 7587-7599.	1.7	64
25	Elementary motion detectors. <i>Current Biology</i> , 2015, 25, R215-R217.	1.8	11
26	Figure-ground discrimination behavior in <i>Drosophila</i> . I. Spatial organization of wing steering responses. <i>Journal of Experimental Biology</i> , 2014, 217, 558-69.	0.8	32
27	Figure-ground discrimination behavior in <i>Drosophila</i> . II. Visual influences on head movement. <i>Journal of Experimental Biology</i> , 2014, 217, 570-9.	0.8	38
28	Method and software for using m-sequences to characterize parallel components of higher-order visual tracking behavior in <i>Drosophila</i> . <i>Frontiers in Neural Circuits</i> , 2014, 8, 130.	1.4	13
29	Higher-Order Figure-Discrimination in Fly and Human Vision. <i>Current Biology</i> , 2013, 23, R694-R700.	1.8	14
30	<i>Drosophila</i> Tracks Carbon Dioxide in Flight. <i>Current Biology</i> , 2013, 23, 301-306.	1.8	60
31	Visual Attention: A Cell that Focuses on One Object at a Time. <i>Current Biology</i> , 2013, 23, R61-R63.	1.8	4
32	Animal Behavior: Fly Flight Moves Forward. <i>Current Biology</i> , 2013, 23, R278-R279.	1.8	2
33	Flies dynamically anti-track, rather than ballistically escape, aversive odor during flight. <i>Journal of Experimental Biology</i> , 2012, 215, 2833-2840.	0.8	23
34	Binocular interactions underlying the classic optomotor responses of flying flies. <i>Frontiers in Behavioral Neuroscience</i> , 2012, 6, 6.	1.0	33
35	Figure-Tracking by Flies Is Supported by Parallel Visual Streams. <i>Current Biology</i> , 2012, 22, 482-487.	1.8	61
36	Odor identity influences tracking of temporally patterned plumes in <i>Drosophila</i> . <i>BMC Neuroscience</i> , 2011, 12, 62.	0.8	18

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37	MEMS-enabled multi-unit neural recording from <i>Drosophila melanogaster</i> . , 2011, , .		0
38	An Olfactory Circuit Increases the Fidelity of Visual Behavior. <i>Journal of Neuroscience</i> , 2011, 31, 15035-15047.	1.7	35
39	Multisensory systems integration for high-performance motor control in flies. <i>Current Opinion in Neurobiology</i> , 2010, 20, 347-352.	2.0	27
40	Theta motion processing in fruit flies. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, .	1.0	19
41	Mechanisms of odor-tracking: multiple sensors for enhanced perception and behavior. <i>Frontiers in Cellular Neuroscience</i> , 2010, 4, 6.	1.8	52
42	Mutation of the <i>Drosophila</i> vesicular GABA transporter disrupts visual figure detection. <i>Journal of Experimental Biology</i> , 2010, 213, 1717-1730.	0.8	48
43	Visual stabilization dynamics are enhanced by standing flight velocity. <i>Biology Letters</i> , 2010, 6, 410-413.	1.0	8
44	Multisensory integration for odor tracking by flying <i>Drosophila</i> . <i>Communicative and Integrative Biology</i> , 2010, 3, 60-63.	0.6	23
45	Dynamics of optomotor responses in <i>Drosophila</i> to perturbations in optic flow. <i>Journal of Experimental Biology</i> , 2010, 213, 1366-1375.	0.8	66
46	Visually Mediated Odor Tracking During Flight in <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	5
47	Neurogenetics and the "fly-stampede": dissecting neural circuits involved in visual behaviors. <i>Fly</i> , 2009, 3, 209-211.	0.9	1
48	The neuro-ecology of resource localization in <i>Drosophila</i> : Behavioral components of perception and search. <i>Fly</i> , 2009, 3, 50-61.	0.9	26
49	Invertebrate solutions for sensing gravity. <i>Current Biology</i> , 2009, 19, R186-R190.	1.8	25
50	Peripheral Visual Circuits Functionally Segregate Motion and Phototaxis Behaviors in the Fly. <i>Current Biology</i> , 2009, 19, 613-619.	1.8	66
51	Flies Require Bilateral Sensory Input to Track Odor Gradients in Flight. <i>Current Biology</i> , 2009, 19, 1301-1307.	1.8	133
52	Flies Require Bilateral Sensory Input to Track Odor Gradients in Flight. <i>Current Biology</i> , 2009, 19, 1774-1775.	1.8	3
53	Neurobiology: Fly Gyro-Vision. <i>Current Biology</i> , 2009, 19, R1119-R1121.	1.8	3
54	Animal Behavior: Flying Back to Front. <i>Current Biology</i> , 2008, 18, R169-R170.	1.8	1

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55	Crossmodal Visual Input for Odor Tracking during Fly Flight. <i>Current Biology</i> , 2008, 18, 270-275.	1.8	58
56	Flies see second-order motion. <i>Current Biology</i> , 2008, 18, R464-R465.	1.8	91
57	Context-dependent olfactory enhancement of optomotor flight control in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 2478-2485.	0.8	56
58	A Magnetic Tether System to Investigate Visual and Olfactory Mediated Flight Control in <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2008, , .	0.2	22
59	Visual Edge Orientation Shapes Free-Flight Behavior in <i>Drosophila</i> . <i>Fly</i> , 2007, 1, 153-154.	0.9	14
60	The spatial, temporal and contrast properties of expansion and rotation flight optomotor responses in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2007, 210, 3218-3227.	0.8	52
61	A Placebo-Controlled Evaluation of Adjunctive Modafinil in the Treatment of Bipolar Depression. <i>American Journal of Psychiatry</i> , 2007, 164, 1242-1249.	4.0	224
62	Free-Flight Odor Tracking in <i>Drosophila</i> Is Consistent with an Optimal Intermittent Scale-Free Search. <i>PLoS ONE</i> , 2007, 2, e354.	1.1	338
63	Behavioral Neurobiology: A Vibrating Gyroscope Controls Fly Steering Maneuvers. <i>Current Biology</i> , 2007, 17, R134-R136.	1.8	11
64	Dynamic properties of large-field and small-field optomotor flight responses in <i>Drosophila</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2007, 193, 787-799.	0.7	34
65	Bipolar disorder and comorbid alcoholism: prevalence rate and treatment considerations. <i>Bipolar Disorders</i> , 2006, 8, 677-685.	1.1	122
66	Molecular dynamics of cyclically contracting insect flight muscle in vivo. <i>Nature</i> , 2005, 433, 330-334.	13.7	85
67	Spatial organization of visuomotor reflexes in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 113-122.	0.8	151
68	Closing the loop between neurobiology and flight behavior in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2004, 14, 729-736.	2.0	48
69	Motor output reflects the linear superposition of visual and olfactory inputs in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 123-131.	0.8	83
70	Mechanosensory Integration for Flight Control in Insects. <i>Frontiers in Neuroscience</i> , 2004, , .	0.0	2
71	A signature of salience in the <i>Drosophila</i> brain. <i>Nature Neuroscience</i> , 2003, 6, 544-546.	7.1	2
72	Odor localization requires visual feedback during free flight in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 843-855.	0.8	109

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73	Fly Flight. <i>Neuron</i> , 2001, 32, 385-388.	3.8	75
74	Effects of stretch receptor ablation on the optomotor control of lift in the hawkmoth <i>Manduca sexta</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 3683-3691.	0.8	27
75	Encoding properties of the wing hinge stretch receptor in the hawkmoth <i>Manduca sexta</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 3693-3702.	0.8	18
76	Sensory response patterns and the evolution of visual signal design in anoline lizards. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1999, 184, 585-607.	0.7	58
77	Visual receptive field properties of feature detecting neurons in the dragonfly. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1995, 177, 569.	0.7	40
78	Cell-Type Specific Patterned Stimulus-Independent Neuronal Activity in the <i>Drosophila</i> Visual System During Synapse Formation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1