

Bruno van Swinderen

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,003
citations

136950

32
h-index

144013

57
g-index

111
all docs

111
docs citations

111
times ranked

2979
citing authors

#	ARTICLE	IF	CITATIONS
1	A conserved role for sleep in supporting Spatial Learning in <i>Drosophila</i> . <i>Sleep</i> , 2021, 44, .	1.1	16
2	Integrated information structure collapses with anesthetic loss of conscious arousal in <i>Drosophila melanogaster</i> . <i>PLoS Computational Biology</i> , 2021, 17, e1008722.	3.2	15
3	A Paradoxical Kind of Sleep in <i>Drosophila melanogaster</i> . <i>Current Biology</i> , 2021, 31, 578-590.e6.	3.9	47
4	Tracking Single Molecule Dynamics in the Adult <i>Drosophila</i> Brain. <i>ENeuro</i> , 2021, 8, ENEURO.0057-21.2021.	1.9	4
5	A deep sleep stage in <i>Drosophila</i> with a functional role in waste clearance. <i>Science Advances</i> , 2021, 7, .	10.3	51
6	Balancing Prediction and Surprise: A Role for Active Sleep at the Dawn of Consciousness?. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 768762.	2.5	7
7	Oscillations in the central brain of <i>Drosophila</i> are phase locked to attended visual features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29925-29936.	7.1	16
8	Down-regulation of a cytokine secreted from peripheral fat bodies improves visual attention while reducing sleep in <i>Drosophila</i> . <i>PLoS Biology</i> , 2020, 18, e3000548.	5.6	10
9	Activity-Dependent Global Downscaling of Evoked Neurotransmitter Release across Glutamatergic Inputs in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2020, 40, 8025-8041.	3.6	6
10	Perceptual rivalry across animal species. <i>Journal of Comparative Neurology</i> , 2020, 528, 3123-3133.	1.6	7
11	Sleep restores place learning to the adenylyl cyclase mutant <i>rutabaga</i> . <i>Journal of Neurogenetics</i> , 2020, 34, 83-91.	1.4	5
12	General anesthesia reduces complexity and temporal asymmetry of the informational structures derived from neural recordings in <i>Drosophila</i> . <i>Physical Review Research</i> , 2020, 2, .	3.6	17
13	Proportional Downscaling of Glutamatergic Release Sites by the General Anesthetic Propofol at <i>Drosophila</i> Motor Nerve Terminals. <i>ENeuro</i> , 2020, 7, ENEURO.0422-19.2020.	1.9	13
14	Turning to <i>Drosophila</i> for help in resolving general anesthesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24627-24628.	7.1	3
15	Title is missing!. , 2020, 18, e3000548.		0
16	Title is missing!. , 2020, 18, e3000548.		0
17	Title is missing!. , 2020, 18, e3000548.		0
18	Title is missing!. , 2020, 18, e3000548.		0

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19	Title is missing!. , 2020, 18, e3000548.		0
20	Title is missing!. , 2020, 18, e3000548.		0
21	Title is missing!. , 2020, 18, e3000548.		0
22	Title is missing!. , 2020, 18, e3000548.		0
23	Sleep in <i>Drosophila</i> . Handbook of Behavioral Neuroscience, 2019, 30, 333-347.	0.7	6
24	Visual experience drives sleep need in <i>Drosophila</i> . Sleep, 2019, 42, .	1.1	17
25	Syntaxin1A Neomorphic Mutations Promote Rapid Recovery from Isoflurane Anesthesia in <i>Drosophila melanogaster</i> . Anesthesiology, 2019, 131, 555-568.	2.5	14
26	Trapping of Syntaxin1a in Presynaptic Nanoclusters by a Clinically Relevant General Anesthetic. Cell Reports, 2018, 22, 427-440.	6.4	45
27	&em>In Vivo Single-Molecule Tracking at the <i>Drosophila</i> Presynaptic Motor Nerve Terminal. Journal of Visualized Experiments, 2018, , .	0.3	10
28	Using <i>Drosophila</i> to Understand General Anesthesia: From Synapses to Behavior. Methods in Enzymology, 2018, 602, 153-176.	1.0	5
29	Sleep regulates visual selective attention in <i>Drosophila</i> . Journal of Experimental Biology, 2018, 221, .	1.7	19
30	Innate visual preferences and behavioral flexibility in <i>Drosophila</i> . Journal of Experimental Biology, 2018, 221, .	1.7	10
31	Isoflurane Impairs Low-Frequency Feedback but Leaves High-Frequency Feedforward Connectivity Intact in the Fly Brain. ENeuro, 2018, 5, ENEURO.0329-17.2018.	1.9	21
32	Acute control of the sleep switch in <i>Drosophila</i> reveals a role for gap junctions in regulating behavioral responsiveness. ELife, 2018, 7, .	6.0	32
33	Oscillatory brain activity in spontaneous and induced sleep stages in flies. Nature Communications, 2017, 8, 1815.	12.8	103
34	Enhanced sleep reverses memory deficits and underlying pathology in <i>Drosophila</i> models of Alzheimer's disease. Neurobiology of Sleep and Circadian Rhythms, 2017, 2, 15-26.	2.8	47
35	Transient Dysregulation of Dopamine Signaling in a Developing <i>Drosophila</i> Arousal Circuit Permanently Impairs Behavioral Responsiveness in Adults. Frontiers in Psychiatry, 2017, 8, 22.	2.6	22
36	Response to: Comment on Rohrscheib et al. 2016 "Intensity of mutualism breakdown is determined by temperature not amplification of <i>Wolbachia</i> genes". PLoS Pathogens, 2017, 13, e1006521.	4.7	5

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37	Flux of signalling endosomes undergoing axonal retrograde transport is encoded by presynaptic activity and TrkB. <i>Nature Communications</i> , 2016, 7, 12976.	12.8	59
38	In vivo single-molecule imaging of syntaxin1A reveals polyphosphoinositide- and activity-dependent trapping in presynaptic nanoclusters. <i>Nature Communications</i> , 2016, 7, 13660.	12.8	55
39	What is unconsciousness in a fly or a worm? A review of general anesthesia in different animal models. <i>Consciousness and Cognition</i> , 2016, 44, 72-88.	1.5	22
40	Evidence for selective attention in the insect brain. <i>Current Opinion in Insect Science</i> , 2016, 15, 9-15.	4.4	55
41	Intensity of Mutualism Breakdown Is Determined by Temperature Not Amplification of Wolbachia Genes. <i>PLoS Pathogens</i> , 2016, 12, e1005888.	4.7	21
42	Local Versus Global Effects of Isoflurane Anesthesia on Visual Processing in the Fly Brain. <i>ENeuro</i> , 2016, 3, ENEURO.0116-16.2016.	1.9	18
43	Neurexin ¹ regulates sleep and synaptic plasticity in <i>Drosophila melanogaster</i> . <i>European Journal of Neuroscience</i> , 2015, 42, 2455-2466.	2.6	28
44	Syntaxin1A-mediated Resistance and Hypersensitivity to Isoflurane in <i>Drosophila melanogaster</i> . <i>Anesthesiology</i> , 2015, 122, 1060-1074.	2.5	27
45	Dscam2 affects visual perception in <i>Drosophila melanogaster</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 149.	2.0	8
46	Closed-Loop Behavioral Control Increases Coherence in the Fly Brain. <i>Journal of Neuroscience</i> , 2015, 35, 10304-10315.	3.6	48
47	Sleep Restores Behavioral Plasticity to <i>Drosophila</i> Mutants. <i>Current Biology</i> , 2015, 25, 1270-1281.	3.9	116
48	Wolbachia Influences the Production of Octopamine and Affects <i>Drosophila</i> Male Aggression. <i>Applied and Environmental Microbiology</i> , 2015, 81, 4573-4580.	3.1	46
49	Using an abstract geometry in virtual reality to explore choice behaviour: visual flicker preferences in honeybees. <i>Journal of Experimental Biology</i> , 2015, 218, 3448-60.	1.7	15
50	Insects modify their behaviour depending on the feedback sensor used when walking on a trackball in virtual-reality. <i>Journal of Experimental Biology</i> , 2015, 218, 3118-27.	1.7	24
51	The Yin and Yang of Sleep and Attention. <i>Trends in Neurosciences</i> , 2015, 38, 776-786.	8.6	62
52	Behavioral and electrophysiological analysis of general anesthesia in 3 background strains of <i>Drosophila melanogaster</i> . <i>Fly</i> , 2015, 9, 7-15.	1.7	12
53	Selective attention in the honeybee optic lobes precedes behavioral choices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5006-5011.	7.1	81
54	Explaining general anesthesia: A two-step hypothesis linking sleep circuits and the synaptic release machinery. <i>BioEssays</i> , 2014, 36, 372-381.	2.5	25

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55	Identification of neurons responsible for feeding behavior in the <i>Drosophila</i> brain. <i>Science China Life Sciences</i> , 2014, 57, 391-402.	4.9	7
56	FicTrac: A visual method for tracking spherical motion and generating fictive animal paths. <i>Journal of Neuroscience Methods</i> , 2014, 225, 106-119.	2.5	108
57	Taking a new look at how flies learn. <i>ELife</i> , 2014, 3, e03978.	6.0	2
58	<i>Drosophila</i> strategies to study psychiatric disorders. <i>Brain Research Bulletin</i> , 2013, 92, 1-11.	3.0	67
59	A Dynamic Deep Sleep Stage in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2013, 33, 6917-6927.	3.6	195
60	A Sleep/Wake Circuit Controls Isoflurane Sensitivity in <i>Drosophila</i> . <i>Current Biology</i> , 2013, 23, 594-598.	3.9	56
61	Vision in <i>Drosophila</i> : Seeing the World Through a Model's Eyes. <i>Annual Review of Entomology</i> , 2013, 58, 313-332.	11.8	79
62	Multichannel brain recordings in behaving <i>Drosophila</i> reveal oscillatory activity and local coherence in response to sensory stimulation and circuit activation. <i>Journal of Neurophysiology</i> , 2013, 110, 1703-1721.	1.8	34
63	Transient activation of dopaminergic neurons during development modulates visual responsiveness, locomotion and brain activity in a dopamine ontogeny model of schizophrenia. <i>Translational Psychiatry</i> , 2013, 3, e206-e206.	4.8	18
64	Competing visual flicker reveals attention-like rivalry in the fly brain. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 96.	2.1	32
65	Dopamine in <i>Drosophila</i> : setting arousal thresholds in a miniature brain. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 906-913.	2.6	115
66	Conditioning to Colors: A Population Assay for Visual Learning in <i>Drosophila</i> : Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot066522.	0.3	1
67	Big ideas for small brains: what can psychiatry learn from worms, flies, bees and fish?. <i>Molecular Psychiatry</i> , 2011, 16, 7-16.	7.9	59
68	Attention in <i>Drosophila</i> . <i>International Review of Neurobiology</i> , 2011, 99, 51-85.	2.0	42
69	An Assay for Visual Learning in Individual <i>Drosophila</i> Larvae. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot065888-pdb.prot065888.	0.3	2
70	The Optomotor Maze: A Population Assay for Visual Perception in <i>Drosophila</i> . <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot066530-pdb.prot066530.	0.3	1
71	Single Fly Tethered Paradigms. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot066910.	0.3	1
72	The Aversive Phototaxic Suppression Assay for Individual Adult <i>Drosophila</i> . <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot065896-pdb.prot065896.	0.3	4

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73	<i>Slamdance</i> : seizing a fly model for epilepsy. <i>Journal of Neurophysiology</i> , 2011, 106, 15-17.	1.8	0
74	Attentional Switching in Humans and Flies: Rivalry in Large and Miniature Brains. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 188.	2.0	27
75	An Automated Paradigm for <i>Drosophila</i> Visual Psychophysics. <i>PLoS ONE</i> , 2011, 6, e21619.	2.5	9
76	Attention-Like Deficit and Hyperactivity in a <i>Drosophila</i> Memory Mutant. <i>Journal of Neuroscience</i> , 2010, 30, 1003-1014.	3.6	52
77	Fly Memory: A Mushroom Body Story in Parts. <i>Current Biology</i> , 2009, 19, R855-R857.	3.9	17
78	Shared Visual Attention and Memory Systems in the <i>Drosophila</i> Brain. <i>PLoS ONE</i> , 2009, 4, e5989.	2.5	48
79	The Attention Span of a Fly. <i>Fly</i> , 2007, 1, 187-189.	1.7	8
80	Attention-Like Processes in <i>Drosophila</i> Require Short-Term Memory Genes. <i>Science</i> , 2007, 315, 1590-1593.	12.6	96
81	Attention-like processes underlying optomotor performance in a <i>Drosophila</i> choice maze. <i>Developmental Neurobiology</i> , 2007, 67, 129-145.	3.0	33
82	The Remote Roots of Consciousness in Fruit-fly Selective Attention? The remote roots of consciousness in fruit-fly selective attention by Bruno van Swinderen appeared in <i>BioEssays</i> 27:321-330 (2005). Reprinted with permission of Wiley-Liss, Inc., a subsidiary of John Wiley & Sons, Inc., 2007, , 27-44.		0
83	A succession of anesthetic endpoints in the <i>Drosophila</i> brain. <i>Journal of Neurobiology</i> , 2006, 66, 1195-1211.	3.6	30
84	Attention-like processes underlying optomotor performance in a <i>Drosophila</i> choice maze. <i>Journal of Neurobiology</i> , 2006, 67, 129.	3.6	2
85	Dopaminergic Modulation of Arousal in <i>Drosophila</i> . <i>Current Biology</i> , 2005, 15, 1165-1175.	3.9	333
86	The remote roots of consciousness in fruit-fly selective attention?. <i>BioEssays</i> , 2005, 27, 321-330.	2.5	49
87	Flexibility in a Gene Network Affecting a Simple Behavior in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2005, 169, 2151-2163.	2.9	97
88	Cognitive consonance: complex brain functions in the fruit fly and its relatives. <i>Trends in Neurosciences</i> , 2004, 27, 707-711.	8.6	57
89	Saliency modulates 20-30 Hz brain activity in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2003, 6, 579-586.	14.8	175
90	Arousal in <i>Drosophila</i> . <i>Behavioural Processes</i> , 2003, 64, 133-144.	1.1	37

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91	Electrophysiological Correlates of Rest and Activity in <i>Drosophila melanogaster</i> . <i>Current Biology</i> , 2002, 12, 1934-1940.	3.9	248
92	A <i>Caenorhabditis elegans</i> Pheromone Antagonizes Volatile Anesthetic Action Through a Go-Coupled Pathway. <i>Genetics</i> , 2002, 161, 109-119.	2.9	16
93	Go \pm Regulates Volatile Anesthetic Action in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2001, 158, 643-655.	2.9	32
94	A neomorphic syntaxin mutation blocks volatile-anesthetic action in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 2479-2484.	7.1	100
95	A quantitative genetic approach towards volatile anesthetic mechanisms in <i>C. elegans</i> . <i>Toxicology Letters</i> , 1998, 100-101, 309-317.	0.8	4
96	Common Genetic Determinants of Halothane and Isoflurane Potencies in <i>Caenorhabditis elegans</i> . <i>Anesthesiology</i> , 1998, 89, 1509-1517.	2.5	9
97	Quantitative trait loci controlling halothane sensitivity in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8232-8237.	7.1	29
98	Quantitative Trait Loci for Murine Growth. <i>Genetics</i> , 1996, 142, 1305-1319.	2.9	300
99	Analysis of conditioned courtship in dusky-Andante rhythm mutants of <i>Drosophila</i> .. <i>Learning and Memory</i> , 1995, 2, 49-61.	1.3	21