

Greg J Stephens

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,183
citations

516710

16
h-index

642732

23
g-index

42
all docs

42
docs citations

42
times ranked

2525
citing authors

#	ARTICLE	IF	CITATIONS
1	Capturing the continuous complexity of behaviour in <i>Caenorhabditis elegans</i> . <i>Nature Physics</i> , 2021, 17, 275-283.	16.7	46
2	Flow-mediated olfactory communication in honeybee swarms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
3	Markerless tracking of an entire honey bee colony. <i>Nature Communications</i> , 2021, 12, 1733.	12.8	20
4	WormPose: Image synthesis and convolutional networks for pose estimation in <i>C. elegans</i> . <i>PLoS Computational Biology</i> , 2021, 17, e1008914.	3.2	34
5	Energy consumption and cooperation for optimal sensing. <i>Nature Communications</i> , 2020, 11, 975.	12.8	11
6	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. <i>PLoS ONE</i> , 2020, 15, e0240802.	2.5	46
7	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
8	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
9	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
10	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
11	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
12	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. , 2020, 15, e0240802.		0
13	Modelling the ballistic-to-diffusive transition in nematode motility reveals variation in exploratory behaviour across species. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190174.	3.4	7
14	Adaptive, locally linear models of complex dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1501-1510.	7.1	51
15	Towards Dense Object Tracking in a 2D Honeybee Hive. , 2018, , .		23
16	Exploiting ecology in drug pulse sequences in favour of population reduction. <i>PLoS Computational Biology</i> , 2017, 13, e1005747.	3.2	8
17	Bias, belief, and consensus: Collective opinion formation on fluctuating networks. <i>Physical Review E</i> , 2016, 94, 052312.	2.1	7
18	Hierarchical compression of <i>Caenorhabditis elegans</i> locomotion reveals phenotypic differences in the organization of behaviour. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160466.	3.4	43

#	ARTICLE	IF	CITATIONS
19	Resolving coiled shapes reveals new reorientation behaviors in <i>C. elegans</i> . <i>ELife</i> , 2016, 5, .	6.0	65
20	A place for time: the spatiotemporal structure of neural dynamics during natural audition. <i>Journal of Neurophysiology</i> , 2013, 110, 2019-2026.	1.8	148
21	Statistical Thermodynamics of Natural Images. <i>Physical Review Letters</i> , 2013, 110, 018701.	7.8	49
22	Emergence of long timescales and stereotyped behaviors in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7286-7289.	7.1	82
23	Searching for simplicity in the analysis of neurons and behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15565-15571.	7.1	28
24	Statistical mechanics of letters in words. <i>Physical Review E</i> , 2010, 81, 066119.	2.1	37
25	Speaker-listener neural coupling underlies successful communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14425-14430.	7.1	805
26	From Modes to Movement in the Behavior of <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2010, 5, e13914.	2.5	47
27	Dimensionality and Dynamics in the Behavior of <i>C. elegans</i> . <i>PLoS Computational Biology</i> , 2008, 4, e1000028.	3.2	411
28	Functional structure of cortical neuronal networks grown in vitro. <i>Physical Review E</i> , 2007, 75, 021915.	2.1	152
29	See globally, spike locally: oscillations in a retinal model encode large visual features. <i>Biological Cybernetics</i> , 2006, 95, 327-348.	1.3	15
30	Vortex description of the first-order phase transition in the two-dimensional Abelian-Higgs model. <i>Physical Review E</i> , 2003, 67, 066105.	2.1	1