

John E Lewis

List of Publications by Year in descending order

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36
papers

1,187
citations

394421

19
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

708
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of a neuronal pacemaker in the weakly electric fish <i>Apteronotus</i> . <i>Scientific Reports</i> , 2020, 10, 16707.	3.3	3
2	Electrosensory Contrast Signals for Interacting Weakly Electric Fish. <i>Frontiers in Integrative Neuroscience</i> , 2019, 13, 36.	2.1	12
3	ELFENN: A Generalized Platform for Modeling Ephaptic Coupling in Spiking Neuron Models. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 35.	2.5	11
4	Neuronal Dynamics Underlying Communication Signals in a Weakly Electric Fish: Implications for Connectivity in a Pacemaker Network. <i>Neuroscience</i> , 2019, 401, 21-34.	2.3	10
5	Spatiotemporal model for depth perception in electric sensing. <i>Journal of Theoretical Biology</i> , 2019, 461, 157-169.	1.7	2
6	The complexity of high-frequency electric fields degrades electrosensory inputs: implications for the jamming avoidance response in weakly electric fish. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170633.	3.4	8
7	Motion parallax in electric sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 573-577.	7.1	31
8	A model for studying the energetics of sustained high frequency firing. <i>PLoS ONE</i> , 2018, 13, e0196508.	2.5	2
9	What does a butterfly hear? Physiological characterization of auditory afferents in <i>Morpho peleides</i> (Nymphalidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2018, 204, 791-799.	1.6	10
10	Short-term synaptic plasticity across topographic maps in the electrosensory system. <i>Neuroscience</i> , 2016, 318, 1-11.	2.3	3
11	Ultrafast traveling wave dominates the electric organ discharge of <i>Apteronotus leptorhynchus</i> : an inverse modelling study. <i>Scientific Reports</i> , 2015, 5, 15780.	3.3	9
12	Electrophysiological characterization of male goldfish (<i>Carassius auratus</i>) ventral preoptic area neurons receiving olfactory inputs. <i>Frontiers in Neuroscience</i> , 2014, 8, 185.	2.8	3
13	Action Potential Energetics at the Organismal Level Reveal a Trade-Off in Efficiency at High Firing Rates. <i>Journal of Neuroscience</i> , 2014, 34, 197-201.	3.6	44
14	The neuroethology of electrocommunication: How signal background influences sensory encoding and behaviour in <i>Apteronotus leptorhynchus</i> . <i>Journal of Physiology (Paris)</i> , 2013, 107, 13-25.	2.1	34
15	The energetics of electric organ discharge generation in gymnotiform weakly electric fish. <i>Journal of Experimental Biology</i> , 2013, 216, 2459-2468.	1.7	57
16	Coding Conspecific Identity and Motion in the Electric Sense. <i>PLoS Computational Biology</i> , 2012, 8, e1002564.	3.2	49
17	Zebrafish (<i>Danio rerio</i>) gill neuroepithelial cells are sensitive chemoreceptors for environmental CO ₂ . <i>Journal of Physiology</i> , 2010, 588, 861-872.	2.9	90
18	Burst-Induced Anti-Hebbian Depression Acts through Short-Term Synaptic Dynamics to Cancel Redundant Sensory Signals. <i>Journal of Neuroscience</i> , 2010, 30, 6152-6169.	3.6	52

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19	Broadband Coding with Dynamic Synapses. <i>Journal of Neuroscience</i> , 2009, 29, 2076-2087.	3.6	62
20	Electric field interactions in pairs of electric fish: modeling and mimicking naturalistic inputs. <i>Biological Cybernetics</i> , 2008, 98, 479-490.	1.3	38
21	In vitro studies of closed-loop feedback and electrosensory processing in <i>Apteronotus leptorhynchus</i> . <i>Journal of Physiology (Paris)</i> , 2008, 102, 173-180.	2.1	3
22	The effect of difference frequency on electrocommunication: Chirp production and encoding in a species of weakly electric fish, <i>Apteronotus leptorhynchus</i> . <i>Journal of Physiology (Paris)</i> , 2008, 102, 164-172.	2.1	39
23	Electrocommunication signals in free swimming brown ghost knifefish, <i>Apteronotus leptorhynchus</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 1657-1667.	1.7	106
24	Control of neuronal firing by dynamic parallel fiber feedback: implications for electrosensory reafference suppression. <i>Journal of Experimental Biology</i> , 2007, 210, 4437-4447.	1.7	11
25	Spatial Acuity and Prey Detection in Weakly Electric Fish. <i>PLoS Computational Biology</i> , 2007, 3, e38.	3.2	69
26	Modeling the electric field of weakly electric fish. <i>Journal of Experimental Biology</i> , 2006, 209, 3636-3651.	1.7	66
27	Synaptic Dynamics on Different Time Scales in a Parallel Fiber Feedback Pathway of the Weakly Electric Fish. <i>Journal of Neurophysiology</i> , 2004, 91, 1064-1070.	1.8	31
28	Blurring of the senses: common cues for distance perception in diverse sensory systems. <i>Neuroscience</i> , 2002, 114, 19-22.	2.3	25
29	Dynamics of Electrosensory Feedback: Short-Term Plasticity and Inhibition in a Parallel Fiber Pathway. <i>Journal of Neurophysiology</i> , 2002, 88, 1695-1706.	1.8	47
30	Dynamically Interacting Processes Underlie Synaptic Plasticity in a Feedback Pathway. <i>Journal of Neurophysiology</i> , 2002, 87, 2450-2463.	1.8	21
31	Neuronal Population Codes and the Perception of Object Distance in Weakly Electric Fish. <i>Journal of Neuroscience</i> , 2001, 21, 2842-2850.	3.6	44
32	The dynamics inside the box. <i>Nature Neuroscience</i> , 2000, 3, 309-309.	14.8	0
33	A neuronal network for computing population vectors in the leech. <i>Nature</i> , 1998, 391, 76-79.	27.8	121
34	Phase resetting and fixed-delay stimulation of a simple model of respiratory rhythm generation. <i>Journal of Theoretical Biology</i> , 1992, 159, 491-506.	1.7	18
35	The effects of superior laryngeal nerve stimulation on the respiratory rhythm: phase-resetting and aftereffects. <i>Brain Research</i> , 1990, 517, 44-50.	2.2	37
36	Complex dynamics resulting from repeated stimulation of nonlinear oscillators at a fixed phase. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 125, 119-122.	2.1	18