Charles F Stevens

List of Publications by Year
in descending order

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43 papers	9,820 citations	172457 29 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	7417 citing authors

#	Article	IF	Citations
1	Scaling Principles of Distributed Circuits. Current Biology, 2019, 29, 2533-2540.e7.	3.9	15
2	Conserved features of the primate face code. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 584-588.	7.1	17
3	A neural data structure for novelty detection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13093-13098.	7.1	29
4	Deep(er) Learning. Journal of Neuroscience, 2018, 38, 7365-7374.	3.6	10
5	The distributed circuit within the piriform cortex makes odor discrimination robust. Journal of Comparative Neurology, 2018, 526, 2725-2743.	1.6	26
6	A neural algorithm for a fundamental computing problem. Science, 2017, 358, 793-796.	12.6	150
7	A Statistical Description of Plant Shoot Architecture. Current Biology, 2017, 27, 2078-2088.e3.	3.9	27
8	What is memory? The present state of the engram. BMC Biology, 2016, 14, 40.	3.8	277
9	A statistical property of fly odor responses is conserved across odors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6737-6742.	7.1	27
10	Predicting visual acuity from the structure of visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7815-7820.	7.1	50
11	Novel neural circuit mechanism for visual edge detection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 875-880.	7.1	5
12	What the flyâ€™s nose tells the flyâ€™s brain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9460-9465.	7.1	92
13	Structural uniformity of neocortex, revisited. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1488-1493.	7.1	103
14	Short-term plasticity constrains spatial organization of a hippocampal presynaptic terminal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14657-14662.	7.1	46
15	Brain Organization: Wiring Economy Works for the Large and Small. Current Biology, 2012, 22, R24-R25.	3.9	12
16	A Universal Design Principle for Visual System Pinwheels. Brain, Behavior and Evolution, 2011, 77, 132-135.	1.7	3
17	A Universal Property of Axonal and Dendritic Arbors. Neuron, 2010, 66, 45-56.	8.1	40
18	Darwin and Huxley revisited: the origin of allometry. Journal of Biology, 2009, 8, 14.	2.7	47

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19	How does the speed of thought compare for brains and digital computers?. Current Biology, 2008, 18, R756-R758.	3.9	14
20	Probing synaptic vesicle fusion by altering mechanical properties of the neuronal surface membrane. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18018-18022.	7.1	27
21	General design principle for scalable neural circuits in a vertebrate retina. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12931-12935.	7.1	36
22	Synaptotagmin mutants Y311N and K326/327A alter the calcium dependence of neurotransmission. Molecular and Cellular Neurosciences, 2005, 29, 462-470.	2.2	34
23	Preserving properties of object shape by computations in primary visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15524-15529.	7.1	16
24	Presynaptic function. Current Opinion in Neurobiology, 2004, 14, 341-345.	4.2	49
25	Three modes of synaptic vesicular recycling revealed by single-vesicle imaging. Nature, 2003, 423, 607-613.	27.8	418
26	The Synaptotagmin C2A Domain Is Part of the Calcium Sensor Controlling Fast Synaptic Transmission. Neuron, 2003, 39, 299-308.	8.1	138
27	Neurotransmitter Release at Central Synapses. Neuron, 2003, 40, 381-388.	8.1	137
28	Predicting Functional Properties of Visual Cortex from an Evolutionary Scaling Law. Neuron, 2002, 36, 139-142.	8.1	18
29	Inactivity Produces Increases in Neurotransmitter Release and Synapse Size. Neuron, 2001, 32, 673-682.	8.1	537
30	Synaptotagmin I functions as a calcium regulator of release probability. Nature, 2001, 410, 41-49.	27.8	857
31	An evolutionary scaling law for the primate visual system and its basis in cortical function. Nature, 2001, 411, 193-195.	27.8	109
32	Reversal of synaptic vesicle docking at central synapses. Nature Neuroscience, 1999, 2, 503-507.	14.8	209
33	Synaptic vesicles retain their identity through the endocytic cycle. Nature, 1998, 392, 497-501.	27.8	254
34	Input synchrony and the irregular firing of cortical neurons. Nature Neuroscience, 1998, 1, 210-217.	14.8	462
35	Heterogeneous Release Properties of Visualized Individual Hippocampal Synapses. Neuron, 1997, 18, 599-612.	8.1	526
36	Heterogeneity of Release Probability, Facilitation, and Depletion at Central Synapses. Neuron, 1997, 18, 995-1008.	8.1	1,036

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37	Estimating the Distribution of Synaptic Reliabilities. Journal of Neurophysiology, 1997, 78, 2870-2880.	1.8	54
38	The small GTP-binding protein Rab3A regulates a late step in synaptic vesicle fusion. Nature, 1997, 387, 810-814.	27.8	399
39	Facilitation and depression at single central synapses. Neuron, 1995, 14, 795-802.	8.1	468
40	Changes in reliability of synaptic function as a mechanism for plasticity. Nature, 1994, 371, 704-707.	27.8	340
41	Synaptotagmin I: A major Ca2+ sensor for transmitter release at a central synapse. Cell, 1994, 79, 717-727.	28.9	1,377
42	Presynaptic mechanism for long-term potentiation in the hippocampus. Nature, 1990, 346, 724-729.	27.8	649
43	NMDA and non-NMDA receptors are co-localized at individual excitatory synapses in cultured rat hippocampus. Nature, 1989, 341, 230-233.	27.8	671