

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	Synaptotagmin I: A major Ca ²⁺ sensor for transmitter release at a central synapse. <i>Cell</i> , 1994, 79, 717-727.	28.9	1,377
2	Heterogeneity of Release Probability, Facilitation, and Depletion at Central Synapses. <i>Neuron</i> , 1997, 18, 995-1008.	8.1	1,036
3	Synaptotagmin I functions as a calcium regulator of release probability. <i>Nature</i> , 2001, 410, 41-49.	27.8	857
4	NMDA and non-NMDA receptors are co-localized at individual excitatory synapses in cultured rat hippocampus. <i>Nature</i> , 1989, 341, 230-233.	27.8	671
5	Presynaptic mechanism for long-term potentiation in the hippocampus. <i>Nature</i> , 1990, 346, 724-729.	27.8	649
6	Inactivity Produces Increases in Neurotransmitter Release and Synapse Size. <i>Neuron</i> , 2001, 32, 673-682.	8.1	537
7	Heterogeneous Release Properties of Visualized Individual Hippocampal Synapses. <i>Neuron</i> , 1997, 18, 599-612.	8.1	526
8	Facilitation and depression at single central synapses. <i>Neuron</i> , 1995, 14, 795-802.	8.1	468
9	Input synchrony and the irregular firing of cortical neurons. <i>Nature Neuroscience</i> , 1998, 1, 210-217.	14.8	462
10	Three modes of synaptic vesicular recycling revealed by single-vesicle imaging. <i>Nature</i> , 2003, 423, 607-613.	27.8	418
11	The small GTP-binding protein Rab3A regulates a late step in synaptic vesicle fusion. <i>Nature</i> , 1997, 387, 810-814.	27.8	399
12	Changes in reliability of synaptic function as a mechanism for plasticity. <i>Nature</i> , 1994, 371, 704-707.	27.8	340
13	What is memory? The present state of the engram. <i>BMC Biology</i> , 2016, 14, 40.	3.8	277
14	Synaptic vesicles retain their identity through the endocytic cycle. <i>Nature</i> , 1998, 392, 497-501.	27.8	254
15	Reversal of synaptic vesicle docking at central synapses. <i>Nature Neuroscience</i> , 1999, 2, 503-507.	14.8	209
16	A neural algorithm for a fundamental computing problem. <i>Science</i> , 2017, 358, 793-796.	12.6	150
17	The Synaptotagmin C2A Domain Is Part of the Calcium Sensor Controlling Fast Synaptic Transmission. <i>Neuron</i> , 2003, 39, 299-308.	8.1	138
18	Neurotransmitter Release at Central Synapses. <i>Neuron</i> , 2003, 40, 381-388.	8.1	137

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19	An evolutionary scaling law for the primate visual system and its basis in cortical function. <i>Nature</i> , 2001, 411, 193-195.	27.8	109
20	Structural uniformity of neocortex, revisited. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1488-1493.	7.1	103
21	What the fly's nose tells the fly's brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9460-9465.	7.1	92
22	Estimating the Distribution of Synaptic Reliabilities. <i>Journal of Neurophysiology</i> , 1997, 78, 2870-2880.	1.8	54
23	Predicting visual acuity from the structure of visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7815-7820.	7.1	50
24	Presynaptic function. <i>Current Opinion in Neurobiology</i> , 2004, 14, 341-345.	4.2	49
25	Darwin and Huxley revisited: the origin of allometry. <i>Journal of Biology</i> , 2009, 8, 14.	2.7	47
26	Short-term plasticity constrains spatial organization of a hippocampal presynaptic terminal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14657-14662.	7.1	46
27	A Universal Property of Axonal and Dendritic Arbors. <i>Neuron</i> , 2010, 66, 45-56.	8.1	40
28	General design principle for scalable neural circuits in a vertebrate retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12931-12935.	7.1	36
29	Synaptotagmin mutants Y311N and K326/327A alter the calcium dependence of neurotransmission. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 462-470.	2.2	34
30	A neural data structure for novelty detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13093-13098.	7.1	29
31	Probing synaptic vesicle fusion by altering mechanical properties of the neuronal surface membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18018-18022.	7.1	27
32	A statistical property of fly odor responses is conserved across odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6737-6742.	7.1	27
33	A Statistical Description of Plant Shoot Architecture. <i>Current Biology</i> , 2017, 27, 2078-2088.e3.	3.9	27
34	The distributed circuit within the piriform cortex makes odor discrimination robust. <i>Journal of Comparative Neurology</i> , 2018, 526, 2725-2743.	1.6	26
35	Predicting Functional Properties of Visual Cortex from an Evolutionary Scaling Law. <i>Neuron</i> , 2002, 36, 139-142.	8.1	18
36	Conserved features of the primate face code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 584-588.	7.1	17

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37	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
38	Scaling Principles of Distributed Circuits. Current Biology, 2019, 29, 2533-2540.e7.	3.9	15
39	How does the speed of thought compare for brains and digital computers?. Current Biology, 2008, 18, R756-R758.	3.9	14
40	Brain Organization: Wiring Economy Works for the Large and Small. Current Biology, 2012, 22, R24-R25.	3.9	12
41	Deep(er) Learning. Journal of Neuroscience, 2018, 38, 7365-7374.	3.6	10
42	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
43	A Universal Design Principle for Visual System Pinwheels. Brain, Behavior and Evolution, 2011, 77, 132-135.	1.7	3