

Takeshi Sakaba

List of Publications by Year in descending order

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45
papers

4,343
citations

186265

28
h-index

243625

44
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45
all docs

45
docs citations

45
times ranked

3231
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple Roles of Calcium Ions in the Regulation of Neurotransmitter Release. <i>Neuron</i> , 2008, 59, 861-872.	8.1	750
2	Calmodulin Mediates Rapid Recruitment of Fast-Releasing Synaptic Vesicles at a Calyx-Type Synapse. <i>Neuron</i> , 2001, 32, 1119-1131.	8.1	314
3	Vesicle pools and short-term synaptic depression: lessons from a large synapse. <i>Trends in Neurosciences</i> , 2002, 25, 206-212.	8.6	312
4	The Coupling between Synaptic Vesicles and Ca ²⁺ Channels Determines Fast Neurotransmitter Release. <i>Neuron</i> , 2007, 53, 563-575.	8.1	229
5	Calcium Dependence of Exo- and Endocytotic Coupling at a Glutamatergic Synapse. <i>Neuron</i> , 2009, 63, 216-229.	8.1	227
6	Direct modulation of synaptic vesicle priming by GABAB receptor activation at a glutamatergic synapse. <i>Nature</i> , 2003, 424, 775-778.	27.8	217
7	Quantitative Relationship between Transmitter Release and Calcium Current at the Calyx of Held Synapse. <i>Journal of Neuroscience</i> , 2001, 21, 462-476.	3.6	175
8	Combining Deconvolution and Noise Analysis for the Estimation of Transmitter Release Rates at the Calyx of Held. <i>Journal of Neuroscience</i> , 2001, 21, 444-461.	3.6	162
9	Submillisecond Kinetics of Glutamate Release from a Sensory Synapse. <i>Neuron</i> , 1998, 21, 1177-1188.	8.1	160
10	Dynamic Control of Synaptic Vesicle Replenishment and Short-Term Plasticity by Ca ²⁺ -Calmodulin-Munc13-1 Signaling. <i>Neuron</i> , 2013, 79, 82-96.	8.1	149
11	Synaptic Vesicle Endocytosis Occurs on Multiple Timescales and Is Mediated by Formin-Dependent Actin Assembly. <i>Neuron</i> , 2017, 93, 854-866.e4.	8.1	144
12	Distinct Kinetic Changes in Neurotransmitter Release After SNARE Protein Cleavage. <i>Science</i> , 2005, 309, 491-494.	12.6	133
13	Quantitative Analysis of Calcium-Dependent Vesicle Recruitment and Its Functional Role at the Calyx of Held Synapse. <i>Journal of Neuroscience</i> , 2007, 27, 14286-14298.	3.6	124
14	Roles of the Fast-Releasing and the Slowly Releasing Vesicles in Synaptic Transmission at the Calyx of Held. <i>Journal of Neuroscience</i> , 2006, 26, 5863-5871.	3.6	116
15	Involvement of Actin Polymerization in Vesicle Recruitment at the Calyx of Held Synapse. <i>Journal of Neuroscience</i> , 2003, 23, 837-846.	3.6	104
16	Two Ca ²⁺ -Dependent Steps Controlling Synaptic Vesicle Fusion and Replenishment at the Cerebellar Basket Cell Terminal. <i>Neuron</i> , 2008, 57, 406-419.	8.1	86
17	Control of Inhibitory Synaptic Outputs by Low Excitability of Axon Terminals Revealed by Direct Recording. <i>Neuron</i> , 2015, 85, 1273-1288.	8.1	76
18	Estimation of quantal parameters at the calyx of Held synapse. <i>Neuroscience Research</i> , 2002, 44, 343-356.	1.9	73

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19	Target-Dependent Feedforward Inhibition Mediated by Short-Term Synaptic Plasticity in the Cerebellum. <i>Journal of Neuroscience</i> , 2010, 30, 8171-8179.	3.6	72
20	Kinetics of Releasable Synaptic Vesicles and Their Plastic Changes at Hippocampal Mossy Fiber Synapses. <i>Neuron</i> , 2017, 96, 1033-1040.e3.	8.1	58
21	Two components of transmitter release in retinal bipolar cells: exocytosis and mobilization of synaptic vesicles. <i>Neuroscience Research</i> , 1997, 27, 357-370.	1.9	57
22	Estimating Transmitter Release Rates from Postsynaptic Current Fluctuations. <i>Journal of Neuroscience</i> , 2001, 21, 9638-9654.	3.6	56
23	Fast neurotransmitter release regulated by the endocytic scaffold intersectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8266-8271.	7.1	51
24	Ca ²⁺ -activated K ⁺ current at presynaptic terminals of goldfish retinal bipolar cells. <i>Neuroscience Research</i> , 1997, 27, 219-228.	1.9	45
25	K _v 10.1 opposes activity-dependent increase in Ca ²⁺ influx into the presynaptic terminal of the parallel fibre-Purkinje cell synapse. <i>Journal of Physiology</i> , 2015, 593, 181-196.	2.9	44
26	Readily releasable pool of synaptic vesicles measured at single synaptic contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18138-18143.	7.1	37
27	Imaging Exocytosis of Single Synaptic Vesicles at a Fast CNS Presynaptic Terminal. <i>Neuron</i> , 2015, 88, 492-498.	8.1	37
28	Potentialiation of transmitter release by protein kinase C in goldfish retinal bipolar cells. <i>Journal of Physiology</i> , 1998, 512, 219-225.	2.9	34
29	Activity-dependent modulation of endocytosis by calmodulin at a large central synapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 291-296.	7.1	29
30	Multivesicular Release Differentiates the Reliability of Synaptic Transmission between the Visual Cortex and the Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 11994-12004.	3.6	28
31	cAMP Modulates Intracellular Ca ²⁺ Sensitivity of Fast-Releasing Synaptic Vesicles at the Calyx of Held Synapse. <i>Journal of Neurophysiology</i> , 2010, 104, 3250-3260.	1.8	24
32	Fast Ca ²⁺ Buffer-Dependent Reliable but Plastic Transmission at Small CNS Synapses Revealed by Direct Bouton Recording. <i>Cell Reports</i> , 2017, 21, 3338-3345.	6.4	23
33	Direct imaging of rapid tethering of synaptic vesicles accompanying exocytosis at a fast central synapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14493-14502.	7.1	23
34	Rapid Ca ²⁺ channel accumulation contributes to cAMP-mediated increase in transmission at hippocampal mossy fiber synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
35	Intersectin-Mediated Clearance of SNARE Complexes Is Required for Fast Neurotransmission. <i>Cell Reports</i> , 2020, 30, 409-420.e6.	6.4	22
36	Developmental changes in Ca ²⁺ channel subtypes regulating endocytosis at the calyx of Held. <i>Journal of Physiology</i> , 2014, 592, 3495-3510.	2.9	20

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37	Hapln4/Bral2 is a selective regulator for formation and transmission of <scp>GABA</scp>ergic synapses between Purkinje and deep cerebellar nuclei neurons. Journal of Neurochemistry, 2018, 147, 748-763.	3.9	20
38	Combining deconvolution and fluctuation analysis to determine quantal parameters and release rates. Journal of Neuroscience Methods, 2003, 130, 143-157.	2.5	18
39	Ca ²⁺ current facilitation determines short-term facilitation at inhibitory synapses between cerebellar Purkinje cells. Journal of Physiology, 2015, 593, 4889-4904.	2.9	15
40	Distinct modes of endocytotic presynaptic membrane and protein uptake at the calyx of Held terminal of rats and mice. ELife, 2016, 5, .	6.0	14
41	Ca ²⁺ dependence of synaptic vesicle exocytosis and endocytosis at the hippocampal mossy fibre terminal. Journal of Physiology, 2019, 597, 4373-4386.	2.9	13
42	Kinetics of transmitter release at the calyx of Held synapse. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2018, 94, 139-152.	3.8	12
43	Quantal analysis estimates docking site occupancy determining short-term depression at hippocampal glutamatergic synapses. Journal of Physiology, 2021, 599, 5301-5327.	2.9	10
44	Developmental changes in the excitatory short-term plasticity at input synapses in the rat inferior colliculus. European Journal of Neuroscience, 2019, 50, 2830-2846.	2.6	7
45	Optimal dissection of a model circuit. Journal of Physiology, 2018, 596, 4807-4808.	2.9	0