Takeshi Sakaba

List of Publications by Year
in descending order

45	4,343	186265	243625
papers	citations	28 h-index	44 g-index

45	45	45	3231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid Ca ²⁺ channel accumulation contributes to cAMP-mediated increase in transmission at hippocampal mossy fiber synapses. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
2	Quantal analysis estimates docking site occupancy determining shortâ€term depression at hippocampal glutamatergic synapses. Journal of Physiology, 2021, 599, 5301-5327.	2.9	10
3	Direct imaging of rapid tethering of synaptic vesicles accompanying exocytosis at a fast central synapse. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14493-14502.	7.1	23
4	Intersectin-Mediated Clearance of SNARE Complexes Is Required for Fast Neurotransmission. Cell Reports, 2020, 30, 409-420.e6.	6.4	22
5	Caâ€dependence of synaptic vesicle exocytosis and endocytosis at the hippocampal mossy fibre terminal. Journal of Physiology, 2019, 597, 4373-4386.	2.9	13
6	Developmental changes in the excitatory shortâ€term plasticity at input synapses in the rat inferior colliculus. European Journal of Neuroscience, 2019, 50, 2830-2846.	2.6	7
7	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
8	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
9	Optimal dissection of a model circuit. Journal of Physiology, 2018, 596, 4807-4808.	2.9	0
10	Synaptic Vesicle Endocytosis Occurs on Multiple Timescales and Is Mediated by Formin-Dependent Actin Assembly. Neuron, 2017, 93, 854-866.e4.	8.1	144
11	Kinetics of Releasable Synaptic Vesicles and Their Plastic Changes at Hippocampal Mossy Fiber Synapses. Neuron, 2017, 96, 1033-1040.e3.	8.1	58
12	Fast Ca2+ Buffer-Dependent Reliable but Plastic Transmission at Small CNS Synapses Revealed by Direct Bouton Recording. Cell Reports, 2017, 21, 3338-3345.	6.4	23
13	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
14	Ca²⁺ current facilitation determines shortâ€term facilitation at inhibitory synapses between cerebellar Purkinje cells. Journal of Physiology, 2015, 593, 4889-4904.	2.9	15
15	Control of Inhibitory Synaptic Outputs by Low Excitability of Axon Terminals Revealed by Direct Recording. Neuron, 2015, 85, 1273-1288.	8.1	76
16	Imaging Exocytosis of Single Synaptic Vesicles at a Fast CNS Presynaptic Terminal. Neuron, 2015, 88, 492-498.	8.1	37
17	K_V10.1 opposes activityâ€dependent increase in Ca²⁺ influx into the presynaptic terminal of the parallel fibreâ€“Purkinje cell synapse. Journal of Physiology, 2015, 593, 181-196.	2.9	44
18	Developmental changes in Ca²⁺ channel subtypes regulating endocytosis at the calyx of Held. Journal of Physiology, 2014, 592, 3495-3510.	2.9	20

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19	Dynamic Control of Synaptic Vesicle Replenishment and Short-Term Plasticity by Ca2+-Calmodulin-Munc13-1 Signaling. Neuron, 2013, 79, 82-96.	8.1	149
20	Fast neurotransmitter release regulated by the endocytic scaffold intersectin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8266-8271.	7.1	51
21	Activity-dependent modulation of endocytosis by calmodulin at a large central synapse. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 291-296.	7.1	29
22	Readily releasable pool of synaptic vesicles measured at single synaptic contacts. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18138-18143.	7.1	37
23	Target-Dependent Feedforward Inhibition Mediated by Short-Term Synaptic Plasticity in the Cerebellum. Journal of Neuroscience, 2010, 30, 8171-8179.	3.6	72
24	Multivesicular Release Differentiates the Reliability of Synaptic Transmission between the Visual Cortex and the Somatosensory Cortex. Journal of Neuroscience, 2010, 30, 11994-12004.	3.6	28
25	cAMP Modulates Intracellular Ca²⁺ Sensitivity of Fast-Releasing Synaptic Vesicles at the Calyx of Held Synapse. Journal of Neurophysiology, 2010, 104, 3250-3260.	1.8	24
26	Calcium Dependence of Exo- and Endocytotic Coupling at a Glutamatergic Synapse. Neuron, 2009, 63, 216-229.	8.1	227
27	Two Ca2+-Dependent Steps Controlling Synaptic Vesicle Fusion and Replenishment at the Cerebellar BasketÂCell Terminal. Neuron, 2008, 57, 406-419.	8.1	86
28	Multiple Roles of Calcium Ions in the Regulation of Neurotransmitter Release. Neuron, 2008, 59, 861-872.	8.1	750
29	Quantitative Analysis of Calcium-Dependent Vesicle Recruitment and Its Functional Role at the Calyx of Held Synapse. Journal of Neuroscience, 2007, 27, 14286-14298.	3.6	124
30	The Coupling between Synaptic Vesicles and Ca2+ Channels Determines Fast Neurotransmitter Release. Neuron, 2007, 53, 563-575.	8.1	229
31	Roles of the Fast-Releasing and the Slowly Releasing Vesicles in Synaptic Transmission at the Calyx of Held. Journal of Neuroscience, 2006, 26, 5863-5871.	3.6	116
32	Distinct Kinetic Changes in Neurotransmitter Release After SNARE Protein Cleavage. Science, 2005, 309, 491-494.	12.6	133
33	Combining deconvolution and fluctuation analysis to determine quantal parameters and release rates. Journal of Neuroscience Methods, 2003, 130, 143-157.	2.5	18
34	Direct modulation of synaptic vesicle priming by GABAB receptor activation at a glutamatergic synapse. Nature, 2003, 424, 775-778.	27.8	217
35	Involvement of Actin Polymerization in Vesicle Recruitment at the Calyx of Held Synapse. Journal of Neuroscience, 2003, 23, 837-846.	3.6	104
36	Estimation of quantal parameters at the calyx of Held synapse. Neuroscience Research, 2002, 44, 343-356.	1.9	73

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37	Vesicle pools and short-term synaptic depression: lessons from a large synapse. Trends in Neurosciences, 2002, 25, 206-212.	8.6	312
38	Calmodulin Mediates Rapid Recruitment of Fast-Releasing Synaptic Vesicles at a Calyx-Type Synapse. Neuron, 2001, 32, 1119-1131.	8.1	314
39	Estimating Transmitter Release Rates from Postsynaptic Current Fluctuations. Journal of Neuroscience, 2001, 21, 9638-9654.	3.6	56
40	Combining Deconvolution and Noise Analysis for the Estimation of Transmitter Release Rates at the Calyx of Held. Journal of Neuroscience, 2001, 21, 444-461.	3.6	162
41	Quantitative Relationship between Transmitter Release and Calcium Current at the Calyx of Held Synapse. Journal of Neuroscience, 2001, 21, 462-476.	3.6	175
42	Potentiation of transmitter release by protein kinase C in goldfish retinal bipolar cells. Journal of Physiology, 1998, 512, 219-225.	2.9	34
43	Submillisecond Kinetics of Glutamate Release from a Sensory Synapse. Neuron, 1998, 21, 1177-1188.	8.1	160
44	Ca2+-activated K+ current at presynaptic terminals of goldfish retinal bipolar cells. Neuroscience Research, 1997, 27, 219-228.	1.9	45
45	Two components of transmitter release in retinal bipolar cells: exocytosis and mobilization of synaptic vesicles. Neuroscience Research, 1997, 27, 357-370.	1.9	57