

Hiroko Bannai

List of Publications by Year in descending order

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32
papers

1,560
citations

430874

18
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501196

28
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33
all docs

33
docs citations

33
times ranked

2458
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity-Dependent Tuning of Inhibitory Neurotransmission Based on GABAAR Diffusion Dynamics. <i>Neuron</i> , 2009, 62, 670-682.	8.1	252
2	Imaging the lateral diffusion of membrane molecules with quantum dots. <i>Nature Protocols</i> , 2006, 1, 2628-2634.	12.0	147
3	Homeostatic Regulation of Synaptic GlyR Numbers Driven by Lateral Diffusion. <i>Neuron</i> , 2008, 59, 261-273.	8.1	109
4	Astrocytic IP ₃ Rs: Contribution to Ca ²⁺ signalling and hippocampal LTP. <i>Glia</i> , 2017, 65, 502-513.	4.9	105
5	An RNA-interacting Protein, SYNCRIP (Heterogeneous Nuclear Ribonuclear Protein Q1/NSAP1) Is a Component of mRNA Granule Transported with Inositol 1,4,5-Trisphosphate Receptor Type 1 mRNA in Neuronal Dendrites. <i>Journal of Biological Chemistry</i> , 2004, 279, 53427-53434.	3.4	93
6	Kinesin dependent, rapid, bi-directional transport of ER sub-compartment in dendrites of hippocampal neurons. <i>Journal of Cell Science</i> , 2004, 117, 163-175.	2.0	92
7	Bidirectional Control of Synaptic GABAAR Clustering by Glutamate and Calcium. <i>Cell Reports</i> , 2015, 13, 2768-2780.	6.4	88
8	The regulatory domain of the inositol 1,4,5-trisphosphate receptor is necessary to keep the channel domain closed: possible physiological significance of specific cleavage by caspase 3. <i>Biochemical Journal</i> , 2004, 377, 299-307.	3.7	80
9	Lateral Diffusion of Inositol 1,4,5-Trisphosphate Receptor Type 1 Is Regulated by Actin Filaments and 4.1N in Neuronal Dendrites. <i>Journal of Biological Chemistry</i> , 2004, 279, 48976-48982.	3.4	77
10	Protein 4.1N Is Required for Translocation of Inositol 1,4,5-Trisphosphate Receptor Type 1 to the Basolateral Membrane Domain in Polarized Madin-Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 4048-4056.	3.4	72
11	Cluster Formation of Inositol 1,4,5-Trisphosphate Receptor Requires Its Transition to Open State. <i>Journal of Biological Chemistry</i> , 2005, 280, 6816-6822.	3.4	70
12	Spatiotemporal calcium dynamics in single astrocytes and its modulation by neuronal activity. <i>Cell Calcium</i> , 2014, 55, 119-129.	2.4	61
13	Receptor-Selective Diffusion Barrier Enhances Sensitivity of Astrocytic Processes to Metabotropic Glutamate Receptor Stimulation. <i>Science Signaling</i> , 2012, 5, ra27.	3.6	58
14	Diffusion Barriers Constrain Receptors at Synapses. <i>PLoS ONE</i> , 2012, 7, e43032.	2.5	52
15	Gephyrin-Independent GABAAR Mobility and Clustering during Plasticity. <i>PLoS ONE</i> , 2012, 7, e36148.	2.5	47
16	Basal ryanodine receptor activity suppresses autophagic flux. <i>Biochemical Pharmacology</i> , 2017, 132, 133-142.	4.4	31
17	Astroglial Ca ²⁺ signaling is generated by the coordination of IP ₃ R and store-operated Ca ²⁺ channels. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 879-885.	2.1	22
18	4.1N binding regions of inositol 1,4,5-trisphosphate receptor type 1. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 573-576.	2.1	20

#	ARTICLE	IF	CITATIONS
19	Type 2 inositol 1,4,5-trisphosphate receptor is predominantly involved in agonist-induced Ca ²⁺ signaling in Bergmann glia. <i>Neuroscience Research</i> , 2012, 74, 32-41.	1.9	16
20	Molecular membrane dynamics: Insights into synaptic function and neuropathological disease. <i>Neuroscience Research</i> , 2018, 129, 47-56.	1.9	14
21	Dissection of local Ca ²⁺ signals inside cytosol by ER-targeted Ca ²⁺ indicator. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 67-73.	2.1	12
22	Lateral diffusion of inositol 1,4,5-trisphosphate receptor type 1 in Purkinje cells is regulated by calcium and actin filaments. <i>Journal of Neurochemistry</i> , 2010, 114, 1720-1733.	3.9	11
23	Imaging mGluR5 Dynamics in Astrocytes Using Quantum Dots. <i>Current Protocols in Neuroscience</i> , 2014, 66, 2.21.1-2.21.18.	2.6	10
24	Cooperative and Stochastic Calcium Releases from Multiple Calcium Puff Sites Generate Calcium Microdomains in Intact HeLa Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 24563-24572.	3.4	6
25	Optimal microscopic systems for long-term imaging of intracellular calcium using a ratiometric genetically-encoded calcium indicator. <i>Biochemical and Biophysical Research Communications</i> , 2013, 434, 252-257.	2.1	6
26	Dissection of Local Ca ²⁺ Signals in Cultured Cells by Membrane-targeted Ca ²⁺ Indicators. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
27	Inhibitory synaptic transmission tuned by Ca ²⁺ and glutamate through the control of GABA A R lateral diffusion dynamics. <i>Development Growth and Differentiation</i> , 2020, 62, 398-406.	1.5	3
28	Synaptic Function and Neuropathological Disease Revealed by Quantum Dot-Single-Particle Tracking. <i>Neuromethods</i> , 2020, , 131-155.	0.3	2
29	Editorial: Neuroscience and Neurotechnology of Neuronal Cell Surface Molecules in Neural Circuits. <i>Frontiers in Neural Circuits</i> , 2021, 15, 703300.	2.8	0
30	1SH-05 Membrane molecular dynamics supporting brain functions revealed by single molecule imaging in live cells(1SH Visualizing proteins in action -frontiers in biomolecular imaging-,The 49th Annual) Tj ETQq0 0 0 rgBT.1Overlook 10 Tf 50		
31	Biophysics Opens up the Future of Brain Science. <i>Seibutsu Butsuri</i> , 2012, 52, 112-113.	0.1	0
32	Diffusion Barrier Compartmentalizes Signals in Astrocytes. <i>Seibutsu Butsuri</i> , 2013, 53, 105-106.	0.1	0