

Kazuo Kitamura

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,628
citations

147801

31
h-index

182427

51
g-index

58
all docs

58
docs citations

58
times ranked

5093
citing authors

#	ARTICLE	IF	CITATIONS
1	A single myosin head moves along an actin filament with regular steps of 5.3 nanometres. <i>Nature</i> , 1999, 397, 129-134.	27.8	543
2	Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. <i>Nature Methods</i> , 2008, 5, 61-67.	19.0	332
3	Single Molecule Imaging of Fluorophores and Enzymatic Reactions Achieved by Objective-Type Total Internal Reflection Fluorescence Microscopy. <i>Biochemical and Biophysical Research Communications</i> , 1997, 235, 47-53.	2.1	309
4	Bistability of cerebellar Purkinje cells modulated by sensory stimulation. <i>Nature Neuroscience</i> , 2005, 8, 202-211.	14.8	292
5	Locally Synchronized Synaptic Inputs. <i>Science</i> , 2012, 335, 353-356.	12.6	280
6	Rational design of a high-affinity, fast, red calcium indicator R-CaMP2. <i>Nature Methods</i> , 2015, 12, 64-70.	19.0	234
7	Rational Engineering of XCaMPs, a Multicolor GECI Suite for In Vivo Imaging of Complex Brain Circuit Dynamics. <i>Cell</i> , 2019, 177, 1346-1360.e24.	28.9	199
8	Functional labeling of neurons and their projections using the synthetic activity-dependent promoter E-SARE. <i>Nature Methods</i> , 2013, 10, 889-895.	19.0	166
9	Translocation of a "Winner" Climbing Fiber to the Purkinje Cell Dendrite and Subsequent Elimination of "Losers" from the Soma in Developing Cerebellum. <i>Neuron</i> , 2009, 63, 106-118.	8.1	161
10	<i>In vivo</i> two-photon uncaging of glutamate revealing the structure-function relationships of dendritic spines in the neocortex of adult mice. <i>Journal of Physiology</i> , 2011, 589, 2447-2457.	2.9	157
11	Two distinct layer-specific dynamics of cortical ensembles during learning of a motor task. <i>Nature Neuroscience</i> , 2014, 17, 987-994.	14.8	139
12	Targeted single-cell electroporation of mammalian neurons in vivo. <i>Nature Protocols</i> , 2009, 4, 862-869.	12.0	131
13	Spatial Pattern Coding of Sensory Information by Climbing Fiber-Evoked Calcium Signals in Networks of Neighboring Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2009, 29, 8005-8015.	3.6	125
14	A highly sensitive fluorescent indicator dye for calcium imaging of neural activity <i>in vitro</i> and <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2014, 39, 1720-1728.	2.6	120
15	Postsynaptic P/Q-type Ca ²⁺ channel in Purkinje cell mediates synaptic competition and elimination in developing cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9987-9992.	7.1	103
16	Dendritic Calcium Signaling Triggered by Spontaneous and Sensory-Evoked Climbing Fiber Input to Cerebellar Purkinje Cells In Vivo. <i>Journal of Neuroscience</i> , 2011, 31, 10847-10858.	3.6	99
17	GABAergic Inhibition Regulates Developmental Synapse Elimination in the Cerebellum. <i>Neuron</i> , 2012, 74, 384-396.	8.1	90
18	Spatiotemporal Dynamics of Functional Clusters of Neurons in the Mouse Motor Cortex during a Voluntary Movement. <i>Journal of Neuroscience</i> , 2013, 33, 1377-1390.	3.6	86

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19	Nonlinear Decoding and Asymmetric Representation of Neuronal Input Information by CaMKII β and Calcineurin. <i>Cell Reports</i> , 2013, 3, 978-987.	6.4	85
20	Patchwork-Type Spontaneous Activity in Neonatal Barrel Cortex Layer 4 Transmitted via Thalamocortical Projections. <i>Cell Reports</i> , 2018, 22, 123-135.	6.4	74
21	Single molecule analysis of the actomyosin motor. <i>Current Opinion in Cell Biology</i> , 2000, 12, 20-25.	5.4	69
22	Structure-Function Relationships between Aldolase C/Zeb1 Expression and Complex Spike Synchrony in the Cerebellum. <i>Journal of Neuroscience</i> , 2015, 35, 843-852.	3.6	66
23	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. <i>Science Advances</i> , 2017, 3, e1603001.	10.3	64
24	A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. <i>Nature Neuroscience</i> , 2021, 24, 1324-1337.	14.8	57
25	Mechanism of muscle contraction based on stochastic properties of single actomyosin motors observed in vitro. <i>Biophysics (Nagoya-shi, Japan)</i> , 2005, 1, 1-19.	0.4	49
26	Reinforcing operandum: rapid and reliable learning of skilled forelimb movements by head-fixed rodents. <i>Journal of Neurophysiology</i> , 2012, 108, 1781-1792.	1.8	48
27	Myosin Subfragment-1 Is Fully Equipped with Factors Essential for Motor Function. <i>Biochemical and Biophysical Research Communications</i> , 1997, 230, 76-80.	2.1	47
28	Subpiconewton Intermolecular Force Microscopy. <i>Biochemical and Biophysical Research Communications</i> , 1997, 231, 566-569.	2.1	45
29	Single-motor mechanics and models of the myosin motor. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 441-447.	4.0	45
30	Role of Multiple Bonds Between the Single Cell Adhesion Molecules, Nectin and Cadherin, Revealed by High Sensitive Force Measurements. <i>Journal of Molecular Biology</i> , 2007, 367, 996-1006.	4.2	44
31	Modular organization of cerebellar climbing fiber inputs during goal-directed behavior. <i>ELife</i> , 2019, 8, .	6.0	40
32	Dendritic calcium signaling in cerebellar Purkinje cell. <i>Neural Networks</i> , 2013, 47, 11-17.	5.9	35
33	Spike timing-dependent selective strengthening of single climbing fibre inputs to Purkinje cells during cerebellar development. <i>Nature Communications</i> , 2013, 4, 2732.	12.8	35
34	Non-contact scanning probe microscopy with sub-piconewton force sensitivity. <i>Ultramicroscopy</i> , 1997, 70, 45-55.	1.9	32
35	The diffusive search mechanism of processive myosin class-V motor involves directional steps along actin subunits. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 379-384.	2.1	31
36	Relationship between the Local Structure of Orientation Map and the Strength of Orientation Tuning of Neurons in Monkey V1: A 2-Photon Calcium Imaging Study. <i>Journal of Neuroscience</i> , 2013, 33, 16818-16827.	3.6	26

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37	Stochastic properties of actomyosin motor. <i>BioSystems</i> , 2003, 71, 101-110.	2.0	22
38	Dendritic Spikes in Sensory Perception. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 29.	3.7	21
39	Disruption of cerebellar microzonal organization in GluD2 (GluR1 ²) knockout mouse. <i>Frontiers in Neural Circuits</i> , 2013, 7, 130.	2.8	20
40	Maturation of Cerebellar Purkinje Cell Population Activity during Postnatal Refinement of Climbing Fiber Network. <i>Cell Reports</i> , 2017, 21, 2066-2073.	6.4	19
41	Calcium-dependent regulation of climbing fibre synapse elimination during postnatal cerebellar development. <i>Journal of Physiology</i> , 2013, 591, 3151-3158.	2.9	16
42	Improved hyperacuity estimation of spike timing from calcium imaging. <i>Scientific Reports</i> , 2020, 10, 17844.	3.3	15
43	mGluR1 in cerebellar Purkinje cells is essential for the formation but not expression of associative eyeblink memory. <i>Scientific Reports</i> , 2019, 9, 7353.	3.3	10
44	A Flp-dependent G-CaMP9a transgenic mouse for neuronal imaging in vivo. <i>Cell Reports Methods</i> , 2022, 2, 100168.	2.9	9
45	Purkinje cells in awake behaving animals operate in stable upstate membrane potential. <i>Nature Neuroscience</i> , 2006, 9, 461-461.	14.8	8
46	[12] Molecular motors and single-molecule enzymology. <i>Methods in Enzymology</i> , 2003, 361, 228-245.	1.0	6
47	Imaging And Nano-Manipulation Of Single Actomyosin Motors At Work. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 229-237.	1.9	3
48	Activation of the reward system ameliorates passive cutaneous anaphylactic reaction in mice. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3275-3279.	5.7	2
49	A Single Myosin Head Moves along an Actin Filament with Regular Steps during One Biochemical Cycle of ATP Hydrolysis. <i>Seibutsu Butsuri</i> , 2000, 40, 89-93.	0.1	1
50	2SH-05 Two-photon imaging of the mouse motor cortex during voluntary skilled movement(2SH Star) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
51	ã,çã,ãf^ãfÿã,ãã,ãf³ã^†ããfçãf¼ã,ããf¼ãã¼ã^†ãéãã«è§æž. <i>Journal of the Society of Biomechanisms</i> , 2003, 27, 60-66.		0
52	Two-Photon Targeted Patch-Clamp Recordings In Vivo. <i>Springer Protocols</i> , 2012, , 183-193.	0.3	0