Kazuo Kitamura

List of Publications by Year
in descending order

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 Flp-dependent G-CaMP9a transgenic mouse for neuronal imaging inÂvivo. Cell Reports Methods, 2022, 2, 100168.	2.9	9
2	A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. Nature Neuroscience, 2021, 24, 1324-1337.	14.8	57
3	Improved hyperacuity estimation of spike timing from calcium imaging. Scientific Reports, 2020, 10, 17844.	3.3	15
4	Activation of the reward system ameliorates passive cutaneous anaphylactic reaction in mice. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 3275-3279.	5.7	2
5	Rational Engineering of XCaMPs, a Multicolor GECI Suite for InÂVivo Imaging of Complex Brain Circuit Dynamics. Cell, 2019, 177, 1346-1360.e24.	28.9	199
6	mGluR1 in cerebellar Purkinje cells is essential for the formation but not expression of associative eyeblink memory. Scientific Reports, 2019, 9, 7353.	3.3	10
7	Modular organization of cerebellar climbing fiber inputs during goal-directed behavior. ELife, 2019, 8, .	6.0	40
8	Patchwork-Type Spontaneous Activity in Neonatal Barrel Cortex Layer 4 Transmitted via Thalamocortical Projections. Cell Reports, 2018, 22, 123-135.	6.4	74
9	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. Science Advances, 2017, 3, e1603001.	10.3	64
10	Maturation of Cerebellar Purkinje Cell Population Activity during Postnatal Refinement of Climbing Fiber Network. Cell Reports, 2017, 21, 2066-2073.	6.4	19
11	Dendritic Spikes in Sensory Perception. Frontiers in Cellular Neuroscience, 2017, 11, 29.	3.7	21
12	Structureâ€"Function Relationships between Aldolase C/Zebrin II Expression and Complex Spike Synchrony in the Cerebellum. Journal of Neuroscience, 2015, 35, 843-852.	3.6	66
13	Rational design of a high-affinity, fast, red calcium indicator R-CaMP2. Nature Methods, 2015, 12, 64-70.	19.0	234
14	A highly sensitive fluorescent indicator dye for calcium imaging of neural activity <i>in vitro</i> and <i>in vivo</i>. European Journal of Neuroscience, 2014, 39, 1720-1728.	2.6	120
15	Two distinct layer-specific dynamics of cortical ensembles during learning of a motor task. Nature Neuroscience, 2014, 17, 987-994.	14.8	139
16	Functional labeling of neurons and their projections using the synthetic activityâ€"dependent promoter E-SARE. Nature Methods, 2013, 10, 889-895.	19.0	166
17	Dendritic calcium signaling in cerebellar Purkinje cell. Neural Networks, 2013, 47, 11-17.	5.9	35
18	Nonlinear Decoding and Asymmetric Representation of Neuronal Input Information by CaMKIIÎ± and Calcineurin. Cell Reports, 2013, 3, 978-987.	6.4	85

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19	Calciumâ€dependent regulation of climbing fibre synapse elimination during postnatal cerebellar development. Journal of Physiology, 2013, 591, 3151-3158.	2.9	16
20	Spatiotemporal Dynamics of Functional Clusters of Neurons in the Mouse Motor Cortex during a Voluntary Movement. Journal of Neuroscience, 2013, 33, 1377-1390.	3.6	86
21	Spike timing-dependent selective strengthening of single climbing fibre inputs to Purkinje cells during cerebellar development. Nature Communications, 2013, 4, 2732.	12.8	35
22	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. Journal of Neuroscience, 2013, 33, 16818-16827.	3.6	26
23	Disruption of cerebellar microzonal organization in GluD2 (GluRÎ´2) knockout mouse. Frontiers in Neural Circuits, 2013, 7, 130.	2.8	20
24	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
25	Reinforcing operandum: rapid and reliable learning of skilled forelimb movements by head-fixed rodents. Journal of Neurophysiology, 2012, 108, 1781-1792.	1.8	48
26	GABAergic Inhibition Regulates Developmental Synapse Elimination in the Cerebellum. Neuron, 2012, 74, 384-396.	8.1	90
27	Locally Synchronized Synaptic Inputs. Science, 2012, 335, 353-356.	12.6	280
28	Two-Photon Targeted Patch-Clamp Recordings In Vivo. Springer Protocols, 2012, , 183-193.	0.3	0
29	<i>In vivo</i> twoâ€photon uncaging of glutamate revealing the structureâ€"function relationships of dendritic spines in the neocortex of adult mice. Journal of Physiology, 2011, 589, 2447-2457.	2.9	157
30	Postsynaptic P/Q-type Ca ²⁺ channel in Purkinje cell mediates synaptic competition and elimination in developing cerebellum. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9987-9992.	7.1	103
31	Dendritic Calcium Signaling Triggered by Spontaneous and Sensory-Evoked Climbing Fiber Input to Cerebellar Purkinje Cells In Vivo. Journal of Neuroscience, 2011, 31, 10847-10858.	3.6	99
32	Spatial Pattern Coding of Sensory Information by Climbing Fiber-Evoked Calcium Signals in Networks of Neighboring Cerebellar Purkinje Cells. Journal of Neuroscience, 2009, 29, 8005-8015.	3.6	125
33	Targeted single-cell electroporation of mammalian neurons in vivo. Nature Protocols, 2009, 4, 862-869.	12.0	131
34	Translocation of a â€œWinnerâ€•Climbing Fiber to the Purkinje Cell Dendrite and Subsequent Elimination of â€œLosersâ€•from the Soma in Developing Cerebellum. Neuron, 2009, 63, 106-118.	8.1	161
35	Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. Nature Methods, 2008, 5, 61-67.	19.0	332
36	The diffusive search mechanism of processive myosin class-V motor involves directional steps along actin subunits. Biochemical and Biophysical Research Communications, 2007, 354, 379-384.	2.1	31

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37	Role of Multiple Bonds Between the Single Cell Adhesion Molecules, Nectin and Cadherin, Revealed by High Sensitive Force Measurements. Journal of Molecular Biology, 2007, 367, 996-1006.	4.2	44
38	Purkinje cells in awake behaving animals operate in stable upstate membrane potential. Nature Neuroscience, 2006, 9, 461-461.	14.8	8
39	Bistability of cerebellar Purkinje cells modulated by sensory stimulation. Nature Neuroscience, 2005, 8, 202-211.	14.8	292
40	Mechanism of muscle contraction based on stochastic properties of single actomyosin motors observed in vitro. Biophysics (Nagoya-shi, Japan), 2005, 1, 1-19.	0.4	49
41	Stochastic properties of actomyosin motor. BioSystems, 2003, 71, 101-110.	2.0	22
42	[12] Molecular motors and single-molecule enzymology. Methods in Enzymology, 2003, 361, 228-245.	1.0	6
43	ã,¢ã,¯ãƒˆãƒŸã,ªã,·ãƒ³åˆ†åãƒ¢ãƒ¼ã,¿ãƒ¼ã®1åˆ†åè¨ˆæ¸¬ã«ã‚ˆã‚‹è§£æž. Journal of the Society of Biomechanisms, 2003, 27, 60-66.	0.0	0
44	Imaging And Nano-Manipulation Of Single Actomyosin Motors At Work. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 229-237.	1.9	3
45	Single molecule analysis of the actomyosin motor. Current Opinion in Cell Biology, 2000, 12, 20-25.	5.4	69
46	A Single Myosin Head Moves along an Actin Filament with Regular Steps during One Biochemical Cycle of ATP Hydrolysis. Seibutsu Butsuri, 2000, 40, 89-93.	0.1	1
47	Singleâ€"motor mechanics and models of the myosin motor. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 441-447.	4.0	45
48	A single myosin head moves along an actin filament with regular steps of 5.3 nanometres. Nature, 1999, 397, 129-134.	27.8	543
49	Myosin Subfragment-1 Is Fully Equipped with Factors Essential for Motor Function. Biochemical and Biophysical Research Communications, 1997, 230, 76-80.	2.1	47
50	Subpiconewton Intermolecular Force Microscopy. Biochemical and Biophysical Research Communications, 1997, 231, 566-569.	2.1	45
51	Single Molecule Imaging of Fluorophores and Enzymatic Reactions Achieved by Objective-Type Total Internal Reflection Fluorescence Microscopy. Biochemical and Biophysical Research Communications, 1997, 235, 47-53.	2.1	309
52	Non-contact scanning probe microscopy with sub-piconewton force sensitivity. Ultramicroscopy, 1997, 70, 45-55.	1.9	32