

# Ko Matsui

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

2,480  
citations

257101

24  
h-index

360668

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optogenetic stimulus-triggered acquisition of seizure resistance. <i>Neurobiology of Disease</i> , 2022, 163, 105602.	2.1	12
2	Exacerbation of Epilepsy by Astrocyte Alkalinization and Gap Junction Uncoupling. <i>Journal of Neuroscience</i> , 2021, 41, 2106-2118.	1.7	27
3	Glial amplification of synaptic signals. <i>Journal of Physiology</i> , 2021, 599, 2085-2102.	1.3	17
4	Differential pial and penetrating arterial responses examined by optogenetic activation of astrocytes and neurons. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2676-2689.	2.4	13
5	Region-Specific and State-Dependent Astrocyte $Ca^{2+}$ Dynamics during the Sleep-Wake Cycle in Mice. <i>Journal of Neuroscience</i> , 2021, 41, 5440-5452.	1.7	28
6	Intracellular ATP levels in mouse cortical excitatory neurons varies with sleep-wake states. <i>Communications Biology</i> , 2020, 3, 491.	2.0	24
7	Targeted expression of step-function opsins in transgenic rats for optogenetic studies. <i>Scientific Reports</i> , 2018, 8, 5435.	1.6	14
8	Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. <i>Glia</i> , 2018, 66, 2013-2023.	2.5	72
9	The number and distribution of AMPA receptor channels containing fast kinetic GluA3 and GluA4 subunits at auditory nerve synapses depend on the target cells. <i>Brain Structure and Function</i> , 2017, 222, 3375-3393.	1.2	25
10	Extending the Use of Optogenetics Beyond Neuroscience. <i>Nippon Laser Igakkaishi</i> , 2016, 36, 473-477.	0.0	0
11	Unveiling astrocytic control of cerebral blood flow with optogenetics. <i>Scientific Reports</i> , 2015, 5, 11455.	1.6	72
12	Nanoscale Distribution of Presynaptic $Ca^{2+}$ Channels and Its Impact on Vesicular Release during Development. <i>Neuron</i> , 2015, 85, 145-158.	3.8	214
13	Na, K-ATPase $\beta 3$ is a death target of Alzheimer patient amyloid- $\beta$ assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4465-74.	3.3	112
14	In Vivo Visualization of Subtle, Transient, and Local Activity of Astrocytes Using an Ultrasensitive $Ca^{2+}$ Indicator. <i>Cell Reports</i> , 2014, 8, 311-318.	2.9	158
15	Optogenetic Countering of Glial Acidosis Suppresses Glial Glutamate Release and Ischemic Brain Damage. <i>Neuron</i> , 2014, 81, 314-320.	3.8	154
16	Kv4.2 potassium channels segregate to extrasynaptic domains and influence intrasynaptic NMDA receptor NR2B subunit expression. <i>Brain Structure and Function</i> , 2013, 218, 1115-1132.	1.2	10
17	Evaluation of glutamate concentration transient in the synaptic cleft of the rat calyx of Held. <i>Journal of Physiology</i> , 2013, 591, 219-239.	1.3	45
18	Quantitative Localization of $Ca^{2+}$ (P/Q-Type) Voltage-Dependent Calcium Channels in Purkinje Cells: Somatodendritic Gradient and Distinct Somatic Co-clustering with Calcium-Activated Potassium Channels. <i>Journal of Neuroscience</i> , 2013, 33, 3668-3678.	1.7	117

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19	Application of an optogenetic byway for perturbing neuronal activity via glial photostimulation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20720-20725.	3.3	139
20	Quantitative Regional and Ultrastructural Localization of the Ca <sup>v</sup> 2.3 Subunit of R-type Calcium Channel in Mouse Brain. Journal of Neuroscience, 2012, 32, 13555-13567.	1.7	78
21	Mechanisms Underlying Signal Filtering at a Multisynapse Contact. Journal of Neuroscience, 2012, 32, 2357-2376.	1.7	49
22	Expanding the Repertoire of Optogenetically Targeted Cells with an Enhanced Gene Expression System. Cell Reports, 2012, 2, 397-406.	2.9	159
23	Thin Dendrites of Cerebellar Interneurons Confer Sublinear Synaptic Integration and a Gradient of Short-Term Plasticity. Neuron, 2012, 73, 1159-1172.	3.8	114
24	Virus-mediated swapping of zolpidem-insensitive with zolpidem-sensitive GABA <sub>A</sub> receptors in cortical pyramidal cells. Journal of Physiology, 2012, 590, 1517-1534.	1.3	8
25	Input-Specific Intrasynaptic Arrangements of Ionotropic Glutamate Receptors and Their Impact on Postsynaptic Responses. Journal of Neuroscience, 2009, 29, 12896-12908.	1.7	102
26	Bioimaging with Two-photon-induced Luminescence from Triangular Nanoplates and Nanoparticle Aggregates of Gold. Advanced Materials, 2009, 21, 2309-2313.	11.1	67
27	The Great Escape of Glutamate from the Depth of Presynaptic Invaginations. Neuron, 2006, 50, 669-671.	3.8	3
28	Exocytosis unbound. Current Opinion in Neurobiology, 2006, 16, 305-311.	2.0	25
29	High-Concentration Rapid Transients of Glutamate Mediate Neural-Glial Communication via Ectopic Release. Journal of Neuroscience, 2005, 25, 7538-7547.	1.7	124
30	Differential Control of Synaptic and Ectopic Vesicular Release of Glutamate. Journal of Neuroscience, 2004, 24, 8932-8939.	1.7	79
31	Ectopic Release of Synaptic Vesicles. Neuron, 2003, 40, 1173-1183.	3.8	134
32	Modulation of Excitatory Synaptic Transmission by GABAC Receptor-Mediated Feedback in the Mouse Inner Retina. Journal of Neurophysiology, 2001, 86, 2285-2298.	0.9	57
33	Active Role of Glutamate Uptake in the Synaptic Transmission from Retinal Nonspiking Neurons. Journal of Neuroscience, 1999, 19, 6755-6766.	1.7	77
34	Excitatory Synaptic Transmission in the Inner Retina: Paired Recordings of Bipolar Cells and Neurons of the Ganglion Cell Layer. Journal of Neuroscience, 1998, 18, 4500-4510.	1.7	93
35	Two components of transmitter release in retinal bipolar cells: exocytosis and mobilization of synaptic vesicles. Neuroscience Research, 1997, 27, 357-370.	1.0	57