Kotaro Oka

List of Publications by Year in descending order

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80 2,387 23 46 papers citations h-index g-index

85 85 85 85 2839

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	Dorsolateral prefrontal cortex sensing analgesia. Biophysics and Physicobiology, 2022, , .	1.0	5
2	High responsiveness of auditory neurons to specific combination of acoustic features in female songbirds. European Journal of Neuroscience, 2021, 53, 1412-1427.	2.6	1
3	Development of Near-Infrared Fluorescent Mg2+ Probe and Application to Multicolor Imaging of Intracellular Signals. Methods in Molecular Biology, 2021, 2274, 217-235.	0.9	2
4	Two-Round Ca ²⁺ transient in papillae by mechanical stimulation induces metamorphosis in the ascidian <i>Ciona intestinalis</i> type A. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203207.	2.6	14
5	Peripheral-neuron-like properties of differentiated human dental pulp stem cells (hDPSCs). PLoS ONE, 2021, 16, e0251356.	2.5	11
6	Small Molecule-based Alkaline-earth Metal Ion Fluorescent Probes for Imaging Intracellular and Intercellular Multiple Signals. Chemistry Letters, 2021, 50, 870-887.	1.3	4
7	Mechanical stimulus-evoked signal transduction between keratinocytes and sensory neurons via extracellular ATP. Biochemical and Biophysical Research Communications, 2021, 582, 131-136.	2.1	8
8	Developmental Table and Three-Dimensional Embryological Image Resource of the Ascidian Ascidiella aspersa. Frontiers in Cell and Developmental Biology, 2021, 9, 789046.	3.7	1
9	A single motor neuron determines the rhythm of early motor behavior in <i>Ciona</i> . Science Advances, 2021, 7, eabl6053.	10.3	7
10	Neural properties of fundamental function encoding of sound selectivity in the female avian auditory cortex. European Journal of Neuroscience, 2020, 51, 1770-1783.	2.6	9
11	Near-Infrared Fluorescent Probes for Imaging of Intracellular Mg ²⁺ and Application to Multi-Color Imaging of Mg ²⁺ , ATP, and Mitochondrial Membrane Potential. Analytical Chemistry, 2020, 92, 966-974.	6.5	29
12	Optical Dissection of Synaptic Plasticity for Early Adaptation in Caenorhabditis elegans. Neuroscience, 2020, 428, 112-121.	2.3	3
13	Cellular thermogenesis compensates environmental temperature fluctuations for maintaining intracellular temperature. Biochemical and Biophysical Research Communications, 2020, 533, 70-76.	2.1	5
14	Inhibition of Mg2+ Extrusion Attenuates Glutamate Excitotoxicity in Cultured Rat Hippocampal Neurons. Nutrients, 2020, 12, 2768.	4.1	11
15	Phylogenetic comparison of egg transparency in ascidians by hyperspectral imaging. Scientific Reports, 2020, 10, 20829.	3.3	3
16	Different strategies for tissue scaling in dwarf tailbud embryos revealed by single-cell analysis. Developmental Biology, 2020, 460, 215-223.	2.0	4
17	Rapid differentiation of human dental pulp stem cells to neuron-like cells by high K ⁺ stimulation. Biophysics and Physicobiology, 2020, 17, 132-139.	1.0	11
18	Food Deprivation Changes Chemotaxis Behavior of <i>Caenorhabditis elegans</i> . Seibutsu Butsuri, 2020, 60, 346-348.	0.1	0

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19	The Input-Output Relationship of AIY Interneurons in Caenorhabditis elegans in Noisy Environment. IScience, 2019, 19, 191-203.	4.1	6
20	Magnesium Is a Key Player in Neuronal Maturation and Neuropathology. International Journal of Molecular Sciences, 2019, 20, 3439.	4.1	90
21	Multiple tracking and machine learning reveal dopamine modulation for area-restricted foraging behaviors via velocity change in Caenorhabditis elegans. Neuroscience Letters, 2019, 706, 68-74.	2.1	4
22	Food deprivation changes chemotaxis behavior in <i>Caenorhabditis elegans</i> . Biophysics and Physicobiology, 2019, 16, 167-172.	1.0	4
23	Serotonin modulates behavior-related neural activity of RID interneuron inÂCaenorhabditis elegans. PLoS ONE, 2019, 14, e0226044.	2.5	3
24	Stochastic thermodynamic limit on E.Âcoli adaptation by information geometric approach. Biochemical and Biophysical Research Communications, 2019, 508, 690-694.	2.1	4
25	A Transient Rise in Free Mg2+ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. Current Biology, 2018, 28, 444-451.e6.	3.9	116
26	Effect of interactions among individuals on the chemotaxis behaviours of <i>Caenorhabditis elegans</i> . Journal of Experimental Biology, 2018, 221, .	1.7	8
27	GABA-Induced Intracellular Mg2+ Mobilization Integrates and Coordinates Cellular Information Processing for the Maturation of Neural Networks. Current Biology, 2018, 28, 3984-3991.e5.	3.9	27
28	14-3-3εa directs the pulsatile transport of basal factors toward the apical domain for lumen growth in tubulogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8873-E8881.	7.1	17
29	Compartmentalized cGMP Responses of Olfactory Sensory Neurons in <i>Caenorhabditis elegans </i> Journal of Neuroscience, 2017, 37, 3753-3763.	3.6	24
30	Characterization of calcium transients during early embryogenesis in ascidians Ciona robusta (Ciona) Tj ETQq0 C) 0 rgBT /C	Overlock 10 Tf
31	Detection of Temperature Difference in Neuronal Cells. Scientific Reports, 2016, 6, 22071.	3.3	93
32	Qualitative and quantitative estimation of comprehensive synaptic connectivity in short- and long-term cultured rat hippocampal neurons with new analytical methods inspired by Scatchard and Hill plots. Biochemical and Biophysical Research Communications, 2016, 471, 486-491.	2.1	1
33	Mitochondrial Mg2+ homeostasis decides cellular energy metabolism and vulnerability to stress. Scientific Reports, 2016, 6, 30027.	3.3	107
34	Altered expression of Mg2+ transport proteins during Parkinson's disease-like dopaminergic cell degeneration in PC12 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1979-1984.	4.1	16
35	Neural depolarization triggers Mg2+ influx in rat hippocampal neurons. Neuroscience, 2015, 310, 731-741.	2.3	11
36	Electrical stimulation of cultured neurons using a simply patterned indium-tin-oxide (ITO) glass electrode. Journal of Neuroscience Methods, 2015, 253, 272-278.	2.5	16

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37	Intracellular magnesium level determines cell viability in the MPP+ model of Parkinson's disease. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 3182-3191.	4.1	30
38	Direction-Specific Adaptation in Neuronal and Behavioral Responses of an Insect Mechanosensory System. Journal of Neuroscience, 2015, 35, 11644-11655.	3.6	15
39	Comprehensive morphological analysis of individual peripheral neuron dendritic arbors in ascidian larvae using the photoconvertible protein kaede. Developmental Dynamics, 2014, 243, 1362-1373.	1.8	17
40	Identification of oscillatory firing neurons associated with locomotion in the earthworm through synapse imaging. Neuroscience, 2014, 268, 149-158.	2.3	3
41	Design and Synthesis of a FlAsH-Type Mg ²⁺ Fluorescent Probe for Specific Protein Labeling. Journal of the American Chemical Society, 2014, 136, 2374-2381.	13.7	71
42	Development of UV-Excitable Red and Near-Infrared Fluorescent Labels and Their Application for Simultaneous Multicolor Bioimaging by Single-Wavelength Excitation. Journal of Fluorescence, 2013, 23, 1007-1018.	2.5	8
43	NO/cGMP/PKG signaling pathway induces magnesium release mediated by mitoK _{ATP} channel opening in rat hippocampal neurons. FEBS Letters, 2013, 587, 2643-2648.	2.8	23
44	Odorant-induced membrane potential depolarization of AIY interneuron in Caenorhabditis elegans. Neuroscience Letters, 2013, 541, 199-203.	2.1	7
45	Intracellular activation of acetyl-CoA by an artificial reaction promoter and its fluorescent detection. Chemical Communications, 2013, 49, 2876.	4.1	9
46	A method for selective ablation of neurons in C. elegans using the phototoxic fluorescent protein, KillerRed. Neuroscience Letters, 2013, 548, 261-264.	2.1	35
47	Crosstalk between Second Messengers Predicts the Motility of the Growth Cone. Scientific Reports, 2013, 3, 3118.	3.3	13
48	Optical Imaging Techniques for Investigating the Function of Earthworm Nervous System., 2013,, 89-99.		0
49	Three-dimensional anatomy of the Ciona intestinalis tailbud embryo at single-cell resolution. Developmental Biology, 2012, 372, 274-284.	2.0	47
50	A near-infrared fluorescent calcium probe: a new tool for intracellular multicolour Ca2+ imaging. Chemical Communications, 2011, 47, 10407.	4.1	81
51	Newly Developed Mg2+–Selective Fluorescent Probe Enables Visualization of Mg2+ Dynamics in Mitochondria. PLoS ONE, 2011, 6, e23684.	2.5	48
52	Chromatophore Activity during Natural Pattern Expression by the Squid Sepioteuthis lessoniana: Contributions of Miniature Oscillation. PLoS ONE, 2011, 6, e18244.	2.5	11
53	Network structure of projections extending from peripheral neurons in the tunic of ascidian larva. Developmental Dynamics, 2010, 239, 2278-2287.	1.8	17
54	Glutamateâ€induced calcium increase mediates magnesium release from mitochondria in rat hippocampal neurons. Journal of Neuroscience Research, 2010, 88, 3125-3132.	2.9	25

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55	Blue Fluorescent cGMP Sensor for Multiparameter Fluorescence Imaging. PLoS ONE, 2010, 5, e9164.	2.5	28
56	Neural substrate of sound duration discrimination during an auditory sequence in the guinea pig primary auditory cortex. Hearing Research, 2010, 259, 107-116.	2.0	4
57	Simultaneous Visualization of Spatiotemporal Dynamics of Intracellular Signals using Dual FRET Imaging. Seibutsu Butsuri, 2010, 50, 028-029.	0.1	0
58	FMRFamide elicits chromatophore expansion and retraction depending on its type and development in the squid, Sepioteuthis lessoniana. Invertebrate Neuroscience, 2009, 9, 185-193.	1.8	5
59	Simultaneous Live Cell Imaging Using Dual FRET Sensors with a Single Excitation Light. PLoS ONE, 2009, 4, e6036.	2.5	103
60	Ca2+ influx through P2X receptors induces actin cytoskeleton reorganization by the formation of cofilin rods in neurites. Molecular and Cellular Neurosciences, 2008, 37, 261-270.	2.2	24
61	Dendritic Design Implements Algorithm for Synaptic Extraction of Sensory Information. Journal of Neuroscience, 2008, 28, 4592-4603.	3.6	32
62	A web-based interactive developmental table for the ascidianCiona intestinalis, including 3D real-image embryo reconstructions: I. From fertilized egg to hatching larva. Developmental Dynamics, 2007, 236, 1790-1805.	1.8	234
63	Change detection and difference detection of tone duration discrimination. NeuroReport, 2006, 17, 395-399.	1.2	17
64	Serotonin induces the increase in intracellular Ca2+ that enhances neurite outgrowth in PC12 cells via activation of 5-HT3 receptors and voltage-gated calcium channels. Journal of Neuroscience Research, 2006, 84, 316-325.	2.9	40
65	Mitochondria are intracellular magnesium stores: investigation by simultaneous fluorescent imagings in PC12 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1744, 19-28.	4.1	103
66	Single Molecular Multianalyte (Ca2+, Mg2+) Fluorescent Probe and Applications to Bioimaging. Journal of the American Chemical Society, 2005, 127, 10798-10799.	13.7	228
67	Modulation of motor patterns by sensory feedback during earthworm locomotion. Neuroscience Research, 2004, 48, 457-462.	1.9	12
68	Design and Synthesis of Highly Sensitive and Selective Fluorescein-Derived Magnesium Fluorescent Probes and Application to Intracellular 3D Mg2+ Imaging. Journal of the American Chemical Society, 2004, 126, 16353-16360.	13.7	155
69	Investigation of Intracellular Magnesium Mobilization Pathways I Pc12 Cells B Simultaneous Mg-Ca Fluorescent Imaging. Journal of the American College of Nutrition, 2004, 23, 742S-744S.	1.8	3
70	Na+/Mg2+ transporter acts as a Mg2+ buffering mechanism in PC12 cells. Biochemical and Biophysical Research Communications, 2003, 303, 332-336.	2.1	24
71	Design and Synthesis of Mg2+-Selective Fluoroionophores Based on a Coumarin Derivative and Application for Mg2+Measurement in a Living Cell. Analytical Chemistry, 2002, 74, 1423-1428.	6. 5	131
72	Fictive locomotion induced by octopamine in the earthworm. Journal of Experimental Biology, 2002, 205, 265-271.	1.7	23

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73	Fictive locomotion induced by octopamine in the earthworm. Journal of Experimental Biology, 2002, 205, 265-71.	1.7	16
74	Improvement in the Viability of Cryopreserved Cells by Microencapsulation. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 937-945.	0.3	5
75	Bioengineering. Measurement of Surface Topography of Endothelial Cell and Wall Shear Stress Distribution on the Cell JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 972-981.	0.3	13
76	Bioengineering. Secondary Flow Augmentation during Intermittent Oscillatory Flow in Model Human Central Airways JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 1041-1050.	0.3	3
77	Dendritic calcium accumulation regulates wind sensitivity via short-term depression at cercal sensory-to-giant interneuron synapses in the cricket. Journal of Neurobiology, 2001, 46, 301-313.	3.6	24
78	Development of a Coaxial-Type Microelectrode for <i>In vivo</i> Nitric Oxide Measurement. Seibutsu Butsuri, 2001, 41, 32-34.	0.1	0
79	Effect of distribution of tumor vasculature and pO_2 in radiation therapy. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2001, 2001.13, 270-271.	0.0	0
80	Spatial and Temporal Variation of Secondary Flow During Oscillatory Flow in Model Airways. The Proceedings of the Fluids Engineering Conference, 2000, 2000, 160.	0.0	0