

Suguru N Kudoh

List of Publications by Year in descending order

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papers

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citations

687363

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67
all docs

67
docs citations

67
times ranked

384
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Particle Tracking Analysis of Optical Trapping Dynamics of AMPA-type Glutamate Receptors. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 668-675.	0.2	0
2	Two-Photon-Excited Emission of Quantum Dots with a Plasmonic Chip. Journal of Physical Chemistry C, 2020, 124, 16076-16082.	3.1	3
3	Convection Dynamics Forced by Optical Trapping with a Focused Laser Beam. Journal of Physical Chemistry C, 2020, 124, 8323-8333.	3.1	16
4	Real-time fluorescence measurement of spontaneous activity in a high-density hippocampal network cultivated on a plasmonic dish. Journal of Chemical Physics, 2020, 152, 014706.	3.0	6
5	Elucidation of EEG Characteristics of Fuzzy Reasoning-Based Heuristic BCI and Its Application to Patient With Brain Infarction. Frontiers in Neurobotics, 2020, 14, 607706.	2.8	2
6	Bisphenol A and rotenone induce S-nitrosylation of protein disulfide isomerase (PDI) and inhibit neurite outgrowth of primary cultured cells of the rat hippocampus and PC12 cells. Journal of Toxicological Sciences, 2020, 45, 783-794.	1.5	5
7	Long-term real-time imaging of a voltage sensitive dye in cultured hippocampal neurons using the silver plasmonic dish. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 384, 111949.	3.9	4
8	Prototype of an Ankle Neurorehabilitation System with Heuristic BCI Using Simplified Fuzzy Reasoning. Applied Sciences (Switzerland), 2019, 9, 2429.	2.5	2
9	Relationship Between Autonomous and Evoked Activities in a Living Neuronal Network of a Neurorobot, "Vitaenoid".., 2018, , .		0
10	14,15-epoxyicosatrienoic acid produced by cytochrome P450s enhances neurite outgrowth of PC12 and rat hippocampal neuronal cells. Pharmacology Research and Perspectives, 2018, 6, e00428.	2.4	10
11	Identification of multiple-tasks-induced-EEG by heuristic BCI with learning type fuzzy-template-matching method. , 2017, , .		4
12	Analysis of transition and reproducibility of spontaneous electrical activity pattern in a living neuronal network. , 2017, , .		0
13	Molecular dynamics in an optical trap of glutamate receptors labeled with quantum-dots on living neurons. Proceedings of SPIE, 2017, , .	0.8	1
14	Does Representation of Outer Objects in Living Neuronal Network Synthesize the concept?. , 2016, , .		0
15	Surface plasmon-enhanced optical trapping of quantum-dot-conjugated surface molecules on neurons cultured on a plasmonic chip. Japanese Journal of Applied Physics, 2016, 55, 06GN04.	1.5	10
16	Analysis of Structure Characteristic in Rat Cultured Neuronal Network Using Fuzzy Operator. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2016, 28, 675-684.	0.0	0
17	Relationship between Autonomous Activity in Cultured Neuronal Networks and Glucose Concentration of Culture Condition. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1335-1342.	0.2	0
18	Relationship between inter-stimulus-intervals and intervals of autonomous activities in a neuronal network. , 2015, 2015, 1536-9.		0

#	ARTICLE	IF	CITATIONS
19	Laser-induced perturbation into molecular dynamics localized in neuronal cell. , 2015, , .		1
20	Description of activity of living neuronal network by fuzzy bio-indicator. , 2014, , .		1
21	Validation of long-term changes of evoked response with self-organization map. , 2014, , .		0
22	Raman study of analysis for the states of maturation of neural cell. , 2014, , .		0
23	The effects of transient abolishment of electrical activity on dynamics in a dissociated neuronal network. , 2014, , .		0
24	The Glucose Concentration Dependency of Spontaneous Activity in a Cultured Neuronal Network. Electronics and Communications in Japan, 2014, 97, 35-41.	0.5	3
25	Trapping of Neural Cell Adhesion Molecules in Neurons with Resonant Optical Tweezers. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 1071-1077.	0.2	1
26	Femtosecond laser-induced stimulation of a single neuron in a neuronal network. Applied Physics A: Materials Science and Processing, 2013, 110, 607-612.	2.3	18
27	Fundamental short-term memory of semi-artificial neuronal network. , 2013, 2013, 811-4.		1
28	Neuronal cell patterning on a multi-electrode array for a network analysis platform. Biomaterials, 2013, 34, 5210-5217.	11.4	31
29	Neurorobot Vitroid as a model of brain-body interaction. , 2013, , .		1
30	Design for Information Processing in Living Neuronal Networks. Advances in Mechatronics and Mechanical Engineering, 2013, , 25-40.	1.0	1
31	Functional connections between avian and mammalian neurons. , 2012, , .		0
32	Electrochemical stimulation of a single neuron in a neuronal network. Applied Physics A: Materials Science and Processing, 2012, 110, 607-612.		1
33	ANN generation according to a connection map of cultured network of living neurons on a dish. , 2011, , .		0
34	Modification of activity pattern induced by synaptic enhancements in a semi-artificial network of living neurons. , 2011, , .		1
35	Cell Patterning Using a Template of Microstructured Organosilane Layer Fabricated by Vacuum Ultraviolet Light Lithography. Langmuir, 2011, 27, 12521-12532.	3.5	25
36	Vitroid – the robot system with an interface between a living neuronal network and outer world. International Journal of Mechatronics and Manufacturing Systems, 2011, 4, 135.	0.1	22

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37	Paradigms representing the relationship between the inner of a brain and the outer world. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 51-57.	1.4	0
38	Effects of electrical stimulation on autonomous electrical activity in a cultured rat hippocampal neuronal network. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 163-167.	1.4	11
39	Discussion about "synthetic intelligence" in dissociated culture system. Electronics and Communications in Japan, 2011, 94, 41-56.	0.5	0
40	Fuzzy bio-interface: Indicating logicity from living neuronal network and learning control of bio-robot. , 2011, , .		2
41	Optical trapping of synaptic vesicles in neurons. Applied Physics Letters, 2011, 98, 163705.	3.3	22
42	Micro-channel fabrication by femtosecond laser to arrange neuronal cells on multi-electrode arrays. Applied Physics A: Materials Science and Processing, 2010, 101, 423-428.	2.3	10
43	Acquisition of logicity in living neuronal networks and its operation to fuzzy bio-robot system. , 2010, , .		3
44	The heterogeneous distribution of functional synaptic connections in rat hippocampal dissociated neuron cultures. Electronics and Communications in Japan, 2009, 92, 41-49.	0.5	13
45	The effects of the current stimulation on electrical activity in dissociated neurons. , 2009, , .		3
46	Relationship Between Evoked and Spontaneous Activity in Cultured Neuronal Circuits. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1815-1821.	0.2	6
47	Discussions About "Synthetic Intelligence" in Dissociated Culture System. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 32-45.	0.2	0
48	Femtosecond laser modification of living neuronal network. Applied Physics A: Materials Science and Processing, 2008, 93, 57-63.	2.3	23
49	Vitroid - a robot with link between living neuronal network in vitro and robot body. , 2008, , .		2
50	3P-227 The Autonomic Regulation of Spontaneous Activity in Living Neuronal Network(The 46th Annual) Tj ETQq0 0.0 rgBT /Overlock 10 Tf 50 1	0.1	0
51	Resynchronization in neuronal network divided by femtosecond laser processing. NeuroReport, 2008, 19, 771-775.	1.2	21
52	1P210 Vesicle dynamics of hippocampal synapses in optical trapping(Neural network and brain) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	0.1	0
53	Interaction between living neuronal network and outer world by programmable multisite stimulation system. , 2007, , .		1
54	1P204 Involvement of NMDA-Rs in developmental change of spontaneous action potential pattern in a rat hippocampal dissociated neurons(Chemoreception, neuron and sensory system, neural network,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0

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55	Biomodeling System - Interaction Between Living Neuronal Networks and the Outer World. Journal of Robotics and Mechatronics, 2007, 19, 592-600.	1.0	26
56	The Heterogenous Distribution of the Functional Synaptic Connections in a Rat Hippocampal Dissociated Neurons. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1611-1618.	0.2	4
57	Interaction of Self-organized Living Neuronal Circuit and its Environment: Analysis from Hierarchical View. Journal of the Robotics Society of Japan, 2007, 25, 214-214.	0.1	0
58	Operation of Network Dynamics in Cultured Hippocampal Neurons on a Multi-electrode Array. , 2006, , .		1
59	Living Neuronal Network Interacting to Outer World. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 351-358.	0.2	3
60	Network dynamics of cultured hippocampal neurons in a multi-electrode array. , 2005, , .		0
61	Interaction and intelligence in living neuronal networks interfaced with moving robot. , 2005, 6036, 197.		0
62	Operation of Spatiotemporal Patterns Stored in Living Neuronal Networks Cultured on a Microelectrode Array. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2004, 8, 100-107.	0.9	24
63	A synaptic potentiation by a protein factor distinct from those induced by neurotrophins. International Journal of Developmental Neuroscience, 2002, 20, 55-62.	1.6	8
64	A simple exploratory algorithm for the accurate and fast detection of spontaneous synaptic events. Biosensors and Bioelectronics, 2002, 17, 773-782.	10.1	55
65	PKC and CaMKII dependent synaptic potentiation in cultured cerebral neurons. Brain Research, 2001, 915, 79-87.	2.2	22
66	Synaptic potentiation induced by a protein factor in cultured cerebral neurons. Cellular and Molecular Neurobiology, 1999, 19, 575-585.	3.3	4
67	Long-lasting enhancement of synaptic activity in dissociated cerebral neurons induced by brief exposure to Mg ²⁺ -free conditions. Neuroscience Research, 1997, 28, 337-344.	1.9	28