

Ryohei Kanzaki

List of Publications by Year in descending order

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papers

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679
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Exploration and Exploitation Balance in the Silkworm Olfactory Search Behavior by Information-Theoretic Modeling. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 629380.	2.1	7
2	Modeling of the Adaptive Chemical Plume Tracing Algorithm of an Insect Using Fuzzy Inference. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 72-84.	9.8	15
3	Analysis of the role of wind information for efficient chemical plume tracing based on optogenetic silkworm moth behavior. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 046006.	2.9	9
4	Time-Varying Moth-Inspired Algorithm for Chemical Plume Tracing in Turbulent Environment. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 76-83.	5.1	37
5	Development of neural population activity toward self-organized criticality. <i>Neuroscience</i> , 2017, 343, 55-65.	2.3	30
6	A novel method for full locomotion compensation of an untethered walking insect. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 016005.	2.9	17
7	Cell-Based Odorant Sensor Array for Odor Discrimination Based on Insect Odorant Receptors. <i>Journal of Chemical Ecology</i> , 2016, 42, 716-724.	1.8	54
8	Reconstruction of Bursting Activity in Cultured Neuronal Network from State-space Model and Leader Spatial Activity Pattern. <i>Electronics and Communications in Japan</i> , 2016, 99, 98-106.	0.5	1
9	Condition interference in rats performing a choice task with switched variable- and fixed-reward conditions. <i>Frontiers in Neuroscience</i> , 2015, 9, 27.	2.8	5
10	Chronic Co-variation of Neural Network Configuration and Activity in Mature Dissociated Cultures. <i>Electronics and Communications in Japan</i> , 2015, 98, 34-42.	0.5	0
11	Novel cell-based odorant sensor elements based on insect odorant receptors. <i>Biosensors and Bioelectronics</i> , 2015, 65, 287-294.	10.1	85
12	Reconstruction of Bursting Activity in Cultured Neuronal Network from State-space Model and Leader Spatial Activity Pattern. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015, 135, 971-978.	0.2	0
13	Postsynaptic Odorant Concentration Dependent Inhibition Controls Temporal Properties of Spike Responses of Projection Neurons in the Moth Antennal Lobe. <i>PLoS ONE</i> , 2014, 9, e89132.	2.5	10
14	Odorant Concentration Differentiator for Intermittent Olfactory Signals. <i>Journal of Neuroscience</i> , 2014, 34, 16581-16593.	3.6	22
15	Decoding of Auditory Information from Steady-state Neural Activity in Rat Auditory Cortex. <i>Electronics and Communications in Japan</i> , 2014, 97, 17-27.	0.5	4
16	Information flow through neural circuits for pheromone orientation. <i>Nature Communications</i> , 2014, 5, 5919.	12.8	65
17	Dynamic use of optic flow during pheromone tracking by the male silkworm, <i>Bombyx mori</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 1811-1820.	1.7	34
18	Pheromone responsiveness threshold depends on temporal integration by antennal lobe projection neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15455-15460.	7.1	50

#	ARTICLE	IF	CITATIONS
19	Stimulus Phase Locking of Cortical Oscillation for Auditory Stream Segregation in Rats. PLoS ONE, 2013, 8, e83544.	2.5	24
20	Cortical Mapping of Mismatch Negativity with Deviance Detection Property in Rat. PLoS ONE, 2013, 8, e82663.	2.5	62
21	Use of bilateral information to determine the walking direction during orientation to a pheromone source in the silkworm <i>Bombyx mori</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 295-307.	1.6	50
22	Substructure of Functional Network for Auditory Stream Segregation in Auditory Cortex. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1079-1087.	0.2	0
23	Optimization of thin-film configuration for light-addressable stimulation electrode. Electronics and Communications in Japan, 2011, 94, 61-68.	0.5	2
24	Direction control of information transfer between neuronal populations with asymmetric three-dimensional microstructure. Electronics and Communications in Japan, 2010, 93, 17-25.	0.5	6
25	Different neural activities require different decoders. , 2009, , .		0
26	Direction Control of Information Transfer between Neuronal Populations with Asymmetric Three-Dimensional Microstructure. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 1036-1042.	0.2	0
27	Optimization of Thin-Film Configuration for Light-Addressable Stimulation Electrode. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 1043-1049.	0.2	0
28	Photoelectric Properties of a Light-Addressable Electrode with a Low-Conductive Passivation Layer and Spatial Resolution of the Light-Addressed Electrical Stimulation. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1581-1587.	0.2	1
29	On Self-Organizing Map Based Classification of Insect Neurons. , 2006, , .		3
30	Neural Basis of Odor-source Searching Behavior in Insect Brain Systems Evaluated with a Mobile Robot. Chemical Senses, 2005, 30, i285-i286.	2.0	21
31	Nervous System and Adaptive Behavior in Insects. Journal of the Robotics Society of Japan, 2005, 23, 27-31.	0.1	3
32	Serotonin modifies the sensitivity of the male silkworm to pheromone. Journal of Experimental Biology, 2004, 207, 2487-2496.	1.7	74