# Ryohei Kanzaki

List of Publications by Year
in descending order



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|---|---|---|---|
| 32 papers | 691 citations | 623734 14 h-index | 610901 24 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 679 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Novel cell-based odorant sensor elements based on insect odorant receptors. Biosensors and Bioelectronics, 2015, 65, 287-294. | 10.1 | 85 |
| 2 | Serotonin modifies the sensitivity of the male silkmoth to pheromone. Journal of Experimental Biology, 2004, 207, 2487-2496. | 1.7 | 74 |
| 3 | Information flow through neural circuits for pheromone orientation. Nature Communications, 2014, 5, 5919. | 12.8 | 65 |
| 4 | Cortical Mapping of Mismatch Negativity with Deviance Detection Property in Rat. PLoS ONE, 2013, 8, e82663. | 2.5 | 62 |
| 5 | Cell-Based Odorant Sensor Array for Odor Discrimination Based on Insect Odorant Receptors. Journal of Chemical Ecology, 2016, 42, 716-724. | 1.8 | 54 |
| 6 | Use of bilateral information to determine the walking direction during orientation to a pheromone source in the silkmoth Bombyx mori. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 295-307. | 1.6 | 50 |
| 7 | Pheromone responsiveness threshold depends on temporal integration by antennal lobe projection neurons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15455-15460. | 7.1 | 50 |
| 8 | Time-Varying Moth-Inspired Algorithm for Chemical Plume Tracing in Turbulent Environment. IEEE Robotics and Automation Letters, 2018, 3, 76-83. | 5.1 | 37 |
| 9 | Dynamic use of optic flow during pheromone tracking by the male silkmoth, Bombyx mori. Journal of Experimental Biology, 2014, 217, 1811-1820. | 1.7 | 34 |
| 10 | Development of neural population activity toward self-organized criticality. Neuroscience, 2017, 343, 55-65. | 2.3 | 30 |
| 11 | Stimulus Phase Locking of Cortical Oscillation for Auditory Stream Segregation in Rats. PLoS ONE, 2013, 8, e83544. | 2.5 | 24 |
| 12 | Odorant Concentration Differentiator for Intermittent Olfactory Signals. Journal of Neuroscience, 2014, 34, 16581-16593. | 3.6 | 22 |
| 13 | 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 |
| 14 | A novel method for full locomotion compensation of an untethered walking insect. Bioinspiration and Biomimetics, 2017, 12, 016005. | 2.9 | 17 |
| 15 | Modeling of the Adaptive Chemical Plume Tracing Algorithm of an Insect Using Fuzzy Inference. IEEE Transactions on Fuzzy Systems, 2020, 28, 72-84. | 9.8 | 15 |
| 16 | Postsynaptic Odorant Concentration Dependent Inhibition Controls Temporal Properties of Spike Responses of Projection Neurons in the Moth Antennal Lobe. PLoS ONE, 2014, 9, e89132. | 2.5 | 10 |
| 17 | Analysis of the role of wind information for efficient chemical plume tracing based on optogenetic silkworm moth behavior. Bioinspiration and Biomimetics, 2019, 14, 046006. | 2.9 | 9 |
| 18 | Identification of Exploration and Exploitation Balance in the Silkmoth Olfactory Search Behavior by Information-Theoretic Modeling. Frontiers in Computational Neuroscience, 2021, 15, 629380. | 2.1 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Direction control of information transfer between neuronal populations with asymmetric threeâ€dimensional microstructure. Electronics and Communications in Japan, 2010, 93, 17-25. | 0.5 | 6 |
| 20 | Condition interference in rats performing a choice task with switched variable- and fixed-reward conditions. Frontiers in Neuroscience, 2015, 9, 27. | 2.8 | 5 |
| 21 | Decoding of Auditory Information from Steadyâ€State Neural Activity in Rat Auditory Cortex. Electronics and Communications in Japan, 2014, 97, 17-27. | 0.5 | 4 |
| 22 | On Self-Organizing Map Based Classification of Insect Neurons. , 2006, , . | | 3 |
| 23 | Nervous System and Adaptive Behavior in Insects. Journal of the Robotics Society of Japan, 2005, 23, 27-31. | 0.1 | 3 |
| 24 | Optimization of thinâ€film configuration for lightâ€addressable stimulation electrode. Electronics and Communications in Japan, 2011, 94, 61-68. | 0.5 | 2 |
| 25 | Reconstruction of Bursting Activity in Cultured Neuronal Network from Stateâ€Space Model and Leader Spatial Activity Pattern. Electronics and Communications in Japan, 2016, 99, 98-106. | 0.5 | 1 |
| 26 | 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 |
| 27 | Different neural activities require different decoders. , 2009, , . | | 0 |
| 28 | Chronic Coâ€Variation of Neural Network Configuration and Activity in Mature Dissociated Cultures. Electronics and Communications in Japan, 2015, 98, 34-42. | 0.5 | 0 |
| 29 | 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 |
| 30 | Optimization of Thin-Film Configuration for Light-Addressable Stimulation Electrode. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 1043-1049. | 0.2 | 0 |
| 31 | 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 |
| 32 | Reconstruction of Bursting Activity in Cultured Neuronal Network from State-space Model and Leader Spatial Activity Pattern. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 971-978. | 0.2 | 0 |