Takeshi Sakurai

List of Publications by Year
in descending order

20	736	1163117 8	940533 16
papers	citations	h-index	g-index

20	20	20	652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification and functional characterization of a sex pheromone receptor in the silkmoth Bombyx mori. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16653-16658.	7.1	366
2	A Single Sex Pheromone Receptor Determines Chemical Response Specificity of Sexual Behavior in the Silkmoth Bombyx mori. PLoS Genetics, 2011, 7, e1002115.	3.5	110
3	Molecular and neural mechanisms of sex pheromone reception and processing in the silkmoth Bombyx mori. Frontiers in Physiology, 2014, 5, 125.	2.8	68
4	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
5	Time-Varying Moth-Inspired Algorithm for Chemical Plume Tracing in Turbulent Environment. IEEE Robotics and Automation Letters, 2018, 3, 76-83.	5.1	37
6	In vivo functional characterisation of pheromone binding protein-1 in the silkmoth, Bombyx mori. Scientific Reports, 2018, 8, 13529.	3.3	32
7	Odorant Concentration Differentiator for Intermittent Olfactory Signals. Journal of Neuroscience, 2014, 34, 16581-16593.	3.6	22
8	A novel method for full locomotion compensation of an untethered walking insect. Bioinspiration and Biomimetics, 2017, 12, 016005.	2.9	17
9	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
10	Highly effective volatile organic compound dissolving strategy based on mist atomization for odorant biosensors. Analytica Chimica Acta, 2020, 1139, 178-188.	5.4	7
11	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
12	Pheromone binding protein is involved in temporal olfactory resolution in the silkmoth. IScience, 2021, 24, 103334.	4.1	4
13	DETERMINATION OF FACTORS RELATED TO ADOPTION OF MODERN DAIRY FARMING IN SELECTED AREAS OF MYMENSINGH IN BANGLADESH. Journal of Sustainability Science and Management, 2021, 16, 218-228.	0.5	2
14	Application of Insect Odorant Receptors for the Detection of Human-Derived Odorants. , 2019, , .		1
15	Pheromonal activities of the bombykol isomer, (10E,12E)-10,12-hexadecadien-1-ol, in the pheromone gland of the silkmoth Bombyx mori. Journal of Insect Physiology, 2020, 121, 104018.	2.0	1
16	Real-Time Odor Discrimination Using Single Antenna of Insect. , 2020, 4, 1-4.		1
17	Silencing of OBP genes: Generation of loss-of-function mutants of PBP by genome editing. Methods in Enzymology, 2020, 642, 325-344.	1.0	1
18	Reconstruction of Odor Biosensors Based on Insect Olfaction. The Brain & Neural Networks, 2021, 28, 162-171.	0.1	1

#	Article	IF	Citations
19	High-Speed Volatile Odorant Molecule Dissolving Strategy for Cell-Based Odorant Sensors. , 2019, , .		0
20	Development of odorant biosensors based on insect olfactory system. Journal of Japan Association on Odor Environment, 2022, 53, 3-16.	0.0	0