Zhuoyi Song

List of Publications by Year
in descending order

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14 papers	258 citations	1478505 6 h-index	1199594 12 g-index
17 all docs	17 docs citations	17 times ranked	256 citing authors

#	Article	IF	Citations
1	Stochastic, Adaptive Sampling of Information by Microvilli in Fly Photoreceptors. Current Biology, 2012, 22, 1371-1380.	3.9	79
2	Microsaccadic sampling of moving image information provides Drosophila hyperacute vision. ELife, 2017, 6, .	6.0	55
3	Refractory Sampling Links Efficiency and Costs of Sensory Encoding to Stimulus Statistics. Journal of Neuroscience, 2014, 34, 7216-7237.	3.6	35
4	How a fly photoreceptor samples light information in time. Journal of Physiology, 2017, 595, 5427-5437.	2.9	18
5	Modelling the mechanoreceptor's dynamic behaviour. Journal of Anatomy, 2015, 227, 243-254.	1.5	14
6	A biomimetic fly photoreceptor model elucidates how stochastic adaptive quantal sampling provides a large dynamic range. Journal of Physiology, 2017, 595, 5439-5456.	2.9	11
7	Binocular mirrorâ€“symmetric microsaccadic sampling enables Drosophila hyperacute 3D vision. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2109717119.	7.1	8
8	Ca²⁺-Activated K⁺ Channels Reduce Network Excitability, Improving Adaptability and Energetics for Transmitting and Perceiving Sensory Information. Journal of Neuroscience, 2019, 39, 7132-7154.	3.6	7
9	Random Photon Absorption Model Elucidates How Early Gain Control in Fly Photoreceptors Arises from Quantal Sampling. Frontiers in Computational Neuroscience, 2016, 10, 61.	2.1	6
10	Modeling elucidates how refractory period can provide profound nonlinear gain control to graded potential neurons. Physiological Reports, 2017, 5, e13306.	1.7	6
11	Phototransduction Biophysics. , 2015, , 2359-2376.		6
12	Biophysical Modeling of a Drosophila Photoreceptor. Lecture Notes in Computer Science, 2009, , 57-71.	1.3	6
13	Multiscale â€˜whole-cellâ€™ models to study neural information processing â€“ New insights from fly photoreceptor studies. Journal of Neuroscience Methods, 2021, 357, 109156.	2.5	2
14	Shining new light into the workings of photoreceptors and visual interneurons. Journal of Physiology, 2017, 595, 5425-5426.	2.9	0