Ronen Segev

List of Publications by Year
in descending order

61 papers	4,412 citations	201385 27 h-index	133063 59 g-index
64 all docs	64 docs citations	64 times ranked	4184 citing authors

#	Article	IF	Citations
1	From fish out of water to new insights on navigation mechanisms in animals. Behavioural Brain Research, 2022, 419, 113711.	1.2	8
2	Recognition of natural objects in the archerfish. Journal of Experimental Biology, 2022, 225, .	0.8	4
3	Feature Integration Theory. , 2022, , 2639-2649.		0
4	Feature Integration Theory. , 2021, , 1-11.		0
5	Feature integration theory in non-humans: Spotlight on the archerfish. Attention, Perception, and Psychophysics, 2020, 82, 752-774.	0.7	11
6	A Generalized Linear Model of a Navigation Network. Frontiers in Neural Circuits, 2020, 14, 56.	1.4	8
7	Representation of edges, head direction, and swimming kinematics in the brain of freely-navigating fish. Scientific Reports, 2020, 10, 14762.	1.6	50
8	Long-range neural inhibition and stimulus competition in the archerfish optic tectum. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 537-552.	0.7	2
9	Wireless Electrophysiological Recording of Neurons by Movable Tetrodes in Freely Swimming Fish. Journal of Visualized Experiments, 2019, , .	0.2	6
10	What pops out for you pops out for fish: Four common visual features. Journal of Vision, 2019, 19, 1.	0.1	9
11	Coding Schemes in the Archerfish Optic Tectum. Frontiers in Neural Circuits, 2018, 12, 18.	1.4	4
12	What a predator can teach us about visual processing: a lesson from the archerfish. Current Opinion in Neurobiology, 2018, 52, 80-87.	2.0	18
13	Wireless electrophysiology of the brain of freely swimming goldfish. Journal of Neuroscience Methods, 2017, 278, 76-86.	1.3	26
14	Symbol-value association and discrimination in the archerfish. PLoS ONE, 2017, 12, e0174044.	1.1	12
15	The Brain of the Archerfish Toxotes chatareus: A Nissl-Based Neuroanatomical Atlas and Catecholaminergic/Cholinergic Systems. Frontiers in Neuroanatomy, 2016, 10, 106.	0.9	28
16	Pharmacological study of direction selectivity in the archer fish retina. Journal of Integrative Neuroscience, 2015, 14, 473-490.	0.8	2
17	Pop-out in visual search of moving targets in the archer fish. Nature Communications, 2015, 6, 6476.	5.8	60
18	Decorrelation of retinal response to natural scenes by fixational eye movements. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3110-3115.	3.3	27

#	Article	IF	Citations
19	A thesaurus for a neural population code. ELife, 2015, 4, .	2.8	45
20	Adaptation to Changes in Higher-Order Stimulus Statistics in the Salamander Retina. PLoS ONE, 2014, 9, e85841.	1.1	15
21	Retinal Metric: A Stimulus Distance Measure Derived from Population Neural Responses. Physical Review Letters, 2013, 110, 058104.	2.9	12
22	Inhibition of return in the archer fish. Nature Communications, 2013, 4, 1657.	5.8	52
23	Visual receptive field properties of cells in the optic tectum of the archer fish. Journal of Neurophysiology, 2013, 110, 748-759.	0.9	20
24	Spike Triggered Covariance in Strongly Correlated Gaussian Stimuli. PLoS Computational Biology, 2013, 9, e1003206.	1.5	8
25	Stimulus-dependent Maximum Entropy Models of Neural Population Codes. PLoS Computational Biology, 2013, 9, e1002922.	1.5	80
26	Adaptive Colour Contrast Coding in the Salamander Retina Efficiently Matches Natural Scene Statistics. PLoS ONE, 2013, 8, e79163.	1.1	4
27	Visual acuity in the archerfish: Behavior, anatomy, and neurophysiology. Journal of Vision, 2012, 12, 18-18.	0.1	30
28	Predictive saccade in the absence of smooth pursuit: interception of moving targets in the archer fish. Journal of Experimental Biology, 2012, 215, 4248-54.	0.8	19
29	The Natural Variation of a Neural Code. PLoS ONE, 2012, 7, e33149.	1.1	3
30	Archer fish fast hunting maneuver may be guided by directionally selective retinal ganglion cells. European Journal of Neuroscience, 2012, 35, 436-444.	1.2	20
31	General properties of transcriptional time series in Escherichia coli. Nature Genetics, 2011, 43, 554-560.	9.4	360
32	The Architecture of Functional Interaction Networks in the Retina. Journal of Neuroscience, 2011, 31, 3044-3054.	1.7	79
33	Synergy from Silence in a Combinatorial Neural Code. Journal of Neuroscience, 2011, 31, 15732-15741.	1.7	64
34	Sparse low-order interaction network underlies a highly correlated and learnable neural population code. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9679-9684.	3.3	181
35	Orientation saliency without visual cortex and target selection in archer fish. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16726-16731.	3.3	30
36	Coding â€œWhatâ€•and â€œWhenâ€•in the Archer Fish Retina. PLoS Computational Biology, 2010, 6, e1000977.	1.5	23

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37	Measuring and tracking eye movements of a behaving archer fish by real-time stereo vision. Journal of Neuroscience Methods, 2009, 184, 235-243.	1.3	18
38	How fast can we learn maximum entropy models of neural populations?. Journal of Physics: Conference Series, 2009, 197, 012020.	0.3	3
39	Magnetic Tracking of Eye Motion in Small, Fast-Moving Animals. IEEE Transactions on Magnetics, 2008, 44, 4492-4495.	1.2	32
40	Role of Eye Movements in the Retinal Code for a Size Discrimination Task. Journal of Neurophysiology, 2007, 98, 1380-1391.	0.9	41
41	Functional Organization of Ganglion Cells in the Salamander Retina. Journal of Neurophysiology, 2006, 95, 2277-2292.	0.9	103
42	Weak pairwise correlations imply strongly correlated network states in a neural population. Nature, 2006, 440, 1007-1012.	13.7	1,377
43	How silent is the brain: is there a â€œdark matterâ€• problem in neuroscience?. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2006, 192, 777-784.	0.7	197
44	How Much the Eye Tells the Brain. Current Biology, 2006, 16, 1428-1434.	1.8	193
45	Self-Regulated Complexity in Cultured Neuronal Networks. Physical Review Letters, 2004, 92, 198105.	2.9	36
46	Modeling of Synchronized Bursting Events: The Importance of Inhomogeneity. Neural Computation, 2004, 16, 2577-2595.	1.3	29
47	Recording spikes from a large fraction of the ganglion cells in a retinal patch. Nature Neuroscience, 2004, 7, 1155-1162.	7.1	195
48	Neural modeling of synchronized bursting events. Neurocomputing, 2004, 58-60, 179-184.	3.5	10
49	Hidden Neuronal Correlations in Cultured Networks. Physical Review Letters, 2004, 92, 118102.	2.9	130
50	Evolvable hardware: genetic search in a physical realm. Physica A: Statistical Mechanics and Its Applications, 2003, 326, 265-285.	1.2	12
51	Formation of Electrically Active Clusterized Neural Networks. Physical Review Letters, 2003, 90, 168101.	2.9	80
52	Long Term Behavior of Lithographically PreparedIn VitroNeuronal Networks. Physical Review Letters, 2002, 88, 118102.	2.9	186
53	A method for spike sorting and detection based on wavelet packets and Shannon's mutual information. Journal of Neuroscience Methods, 2002, 117, 1-12.	1.3	170
54	Spontaneous synchronized bursting in 2D neural networks. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 64-69.	1.2	21

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55	Chemical waves and internal energy during cooperative self-wiring of neural nets. Neurocomputing, 2001, 38-40, 875-879.	3.5	2
56	Observations and modeling of synchronized bursting in two-dimensional neural networks. Physical Review E, 2001, 64, 011920.	0.8	110
57	Generic modeling of chemotactic based self-wiring of neural networks. Neural Networks, 2000, 13, 185-199.	3.3	46
58	Detection and Sorting of Neural Spikes Using Wavelet Packets. Physical Review Letters, 2000, 85, 4637-4640.	2.9	71
59	Self-wiring of neural networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 237, 307-313.	0.9	16
60	Addendum to: "From Neurons to Brain: Adaptive Self-Wiring of Neurons". International Journal of Modeling, Simulation, and Scientific Computing, 1998, 01, 283-285.	0.9	1
61	From Neurons to Brain: Adaptive Self-Wiring of Neurons. International Journal of Modeling, Simulation, and Scientific Computing, 1998, 01, 67-78.	0.9	6