

# Elad Schneidman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1750851/publications.pdf>

Version: 2024-02-01

40  
papers

4,463  
citations

257357

24  
h-index

302012

39  
g-index

48  
all docs

48  
docs citations

48  
times ranked

4219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning the Architectural Features That Predict Functional Similarity of Neural Networks. <i>Physical Review X</i> , 2022, 12, .	2.8	2
2	The geometry of neuronal representations during rule learning reveals complementary roles of cingulate cortex and putamen. <i>Neuron</i> , 2021, 109, 839-851.e9.	3.8	12
3	Learning probabilistic neural representations with randomly connected circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25066-25073.	3.3	24
4	Social interactions drive efficient foraging and income equality in groups of fish. <i>ELife</i> , 2020, 9, .	2.8	29
5	Generalization of Object Localization From Whiskers to Other Body Parts in Freely Moving Rats. <i>Frontiers in Integrative Neuroscience</i> , 2019, 13, 64.	1.0	1
6	Dynamics of social representation in the mouse prefrontal cortex. <i>Nature Neuroscience</i> , 2019, 22, 2013-2022.	7.1	78
7	Probabilistic models of individual and collective animal behavior. <i>PLoS ONE</i> , 2018, 13, e0193049.	1.1	22
8	Information socialtaxis and efficient collective behavior emerging in groups of information-seeking agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5589-5594.	3.3	29
9	Discrete modes of social information processing predict individual behavior of fish in a group. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10149-10154.	3.3	40
10	Ucn3 and CRF-R2 in the medial amygdala regulate complex social dynamics. <i>Nature Neuroscience</i> , 2016, 19, 1489-1496.	7.1	91
11	Towards the design principles of neural population codes. <i>Current Opinion in Neurobiology</i> , 2016, 37, 133-140.	2.0	33
12	A thesaurus for a neural population code. <i>ELife</i> , 2015, 4, .	2.8	45
13	Searching for Collective Behavior in a Large Network of Sensory Neurons. <i>PLoS Computational Biology</i> , 2014, 10, e1003408.	1.5	190
14	Adaptation to Changes in Higher-Order Stimulus Statistics in the Salamander Retina. <i>PLoS ONE</i> , 2014, 9, e85841.	1.1	15
15	Retinal Metric: A Stimulus Distance Measure Derived from Population Neural Responses. <i>Physical Review Letters</i> , 2013, 110, 058104.	2.9	12
16	Stimulus-dependent Maximum Entropy Models of Neural Population Codes. <i>PLoS Computational Biology</i> , 2013, 9, e1002922.	1.5	80
17	High-order feature-based mixture models of classification learning predict individual learning curves and enable personalized teaching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 684-689.	3.3	11
18	Adaptive Colour Contrast Coding in the Salamander Retina Efficiently Matches Natural Scene Statistics. <i>PLoS ONE</i> , 2013, 8, e79163.	1.1	4

#	ARTICLE	IF	CITATIONS
19	High-order social interactions in groups of mice. <i>ELife</i> , 2013, 2, e00759.	2.8	147
20	Perceptual convergence of multi-component mixtures in olfaction implies an olfactory white. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19959-19964.	3.3	117
21	Fast Feedback in Active Sensing: Touch-Induced Changes to Whisker-Object Interaction. <i>PLoS ONE</i> , 2012, 7, e44272.	1.1	76
22	The Natural Variation of a Neural Code. <i>PLoS ONE</i> , 2012, 7, e33149.	1.1	3
23	The Architecture of Functional Interaction Networks in the Retina. <i>Journal of Neuroscience</i> , 2011, 31, 3044-3054.	1.7	79
24	Synergy from Silence in a Combinatorial Neural Code. <i>Journal of Neuroscience</i> , 2011, 31, 15732-15741.	1.7	64
25	Sparse low-order interaction network underlies a highly correlated and learnable neural population code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9679-9684.	3.3	181
26	Neural activity at the human olfactory epithelium reflects olfactory perception. <i>Nature Neuroscience</i> , 2011, 14, 1455-1461.	7.1	86
27	Smart Swarms of Bacteria-Inspired Agents with Performance Adaptable Interactions. <i>PLoS Computational Biology</i> , 2011, 7, e1002177.	1.5	60
28	Optimal population coding by noisy spiking neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14419-14424.	3.3	145
29	Global Features of Neural Activity in the Olfactory System Form a Parallel Code That Predicts Olfactory Behavior and Perception. <i>Journal of Neuroscience</i> , 2010, 30, 9017-9026.	1.7	86
30	Odorant Concentration Dependence in Electroolfactograms Recorded From the Human Olfactory Epithelium. <i>Journal of Neurophysiology</i> , 2009, 102, 2121-2130.	0.9	18
31	Optimal correlation codes in populations of noisy spiking neurons. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	1
32	How fast can we learn maximum entropy models of neural populations?. <i>Journal of Physics: Conference Series</i> , 2009, 197, 012020.	0.3	3
33	Role of Eye Movements in the Retinal Code for a Size Discrimination Task. <i>Journal of Neurophysiology</i> , 2007, 98, 1380-1391.	0.9	41
34	Weak pairwise correlations imply strongly correlated network states in a neural population. <i>Nature</i> , 2006, 440, 1007-1012.	13.7	1,377
35	Redundancy in the Population Code of the Retina. <i>Neuron</i> , 2005, 46, 493-504.	3.8	195
36	Network Information and Connected Correlations. <i>Physical Review Letters</i> , 2003, 91, 238701.	2.9	218

#	ARTICLE	IF	CITATIONS
37	Synergy, Redundancy, and Independence in Population Codes. <i>Journal of Neuroscience</i> , 2003, 23, 11539-11553.	1.7	404
38	Axons as computing devices: Basic insights gained from models. <i>Journal of Physiology (Paris)</i> , 1999, 93, 263-270.	2.1	49
39	Ion Channel Stochasticity May Be Critical in Determining the Reliability and Precision of Spike Timing. <i>Neural Computation</i> , 1998, 10, 1679-1703.	1.3	375
40	Spike Timing Reliability in a Stochastic Hodgkin-Huxley Model. , 1998, , 261-266.		0