

# Eran Stark

## List of Publications by Year in descending order

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40  
papers

4,200  
citations

201385

27  
h-index

329751

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithically Integrated $\mu$ LEDs on Silicon Neural Probes for High-Resolution Optogenetic Studies in Behaving Animals. <i>Neuron</i> , 2015, 88, 1136-1148.	3.8	372
2	Pyramidal Cell-Interneuron Interactions Underlie Hippocampal Ripple Oscillations. <i>Neuron</i> , 2014, 83, 467-480.	3.8	367
3	Transcranial Electric Stimulation Entrain Cortical Neuronal Populations in Rats. <i>Journal of Neuroscience</i> , 2010, 30, 11476-11485.	1.7	345
4	Inhibition-Induced Theta Resonance in Cortical Circuits. <i>Neuron</i> , 2013, 80, 1263-1276.	3.8	292
5	Tools for Probing Local Circuits: High-Density Silicon Probes Combined with Optogenetics. <i>Neuron</i> , 2015, 86, 92-105.	3.8	284
6	Large-scale, high-density (up to 512 channels) recording of local circuits in behaving animals. <i>Journal of Neurophysiology</i> , 2014, 111, 1132-1149.	0.9	276
7	Predicting Movement from Multiunit Activity. <i>Journal of Neuroscience</i> , 2007, 27, 8387-8394.	1.7	261
8	GABAergic circuits mediate the reinforcement-related signals of striatal cholinergic interneurons. <i>Nature Neuroscience</i> , 2012, 15, 123-130.	7.1	258
9	Diode probes for spatiotemporal optical control of multiple neurons in freely moving animals. <i>Journal of Neurophysiology</i> , 2012, 108, 349-363.	0.9	229
10	An implantable neural probe with monolithically integrated dielectric waveguide and recording electrodes for optogenetics applications. <i>Journal of Neural Engineering</i> , 2013, 10, 056012.	1.8	162
11	Sharp wave ripples during learning stabilize the hippocampal spatial map. <i>Nature Neuroscience</i> , 2017, 20, 845-853.	7.1	146
12	Excitation and Inhibition Compete to Control Spiking during Hippocampal Ripples: Intracellular Study in Behaving Mice. <i>Journal of Neuroscience</i> , 2014, 34, 16509-16517.	1.7	121
13	Local generation of multineuronal spike sequences in the hippocampal CA1 region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10521-10526.	3.3	86
14	Fiberless multicolor neural optoelectrode for in vivo circuit analysis. <i>Scientific Reports</i> , 2016, 6, 30961.	1.6	81
15	Dual color optogenetic control of neural populations using low-noise, multishank optoelectrodes. <i>Microsystems and Nanoengineering</i> , 2018, 4, .	3.4	80
16	Large-scale Recording of Neurons by Movable Silicon Probes in Behaving Rodents. <i>Journal of Visualized Experiments</i> , 2012, , e3568.	0.2	78
17	Encoding of Reach and Grasp by Single Neurons in Premotor Cortex Is Independent of Recording Site. <i>Journal of Neurophysiology</i> , 2007, 97, 3351-3364.	0.9	76
18	In vivo optogenetic identification and manipulation of GABAergic interneuron subtypes. <i>Current Opinion in Neurobiology</i> , 2014, 26, 88-95.	2.0	74

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19	Unbiased estimation of precise temporal correlations between spike trains. <i>Journal of Neuroscience Methods</i> , 2009, 179, 90-100.	1.3	70
20	Dependence of Neuronal Correlations on Filter Characteristics and Marginal Spike Train Statistics. <i>Neural Computation</i> , 2008, 20, 2133-2184.	1.3	69
21	Spike sorting: Bayesian clustering of non-stationary data. <i>Journal of Neuroscience Methods</i> , 2006, 157, 303-316.	1.3	50
22	Comparison of Direction and Object Selectivity of Local Field Potentials and Single Units in Macaque Posterior Parietal Cortex During Prehension. <i>Journal of Neurophysiology</i> , 2007, 97, 3684-3695.	0.9	49
23	Parabolic movement primitives and cortical states: merging optimality with geometric invariance. <i>Biological Cybernetics</i> , 2009, 100, 159-184.	0.6	44
24	Partial Cross-Correlation Analysis Resolves Ambiguity in the Encoding of Multiple Movement Features. <i>Journal of Neurophysiology</i> , 2006, 95, 1966-1975.	0.9	38
25	Distinct movement parameters are represented by different neurons in the motor cortex. <i>European Journal of Neuroscience</i> , 2007, 26, 1055-1066.	1.2	38
26	Dynamical Organization of Directional Tuning in the Primate Premotor and Primary Motor Cortex. <i>Journal of Neurophysiology</i> , 2003, 89, 1136-1142.	0.9	35
27	Correlations between Groups of Premotor Neurons Carry Information about Prehension. <i>Journal of Neuroscience</i> , 2008, 28, 10618-10630.	1.7	32
28	Neuronal Activity in Motor Cortical Areas Reflects the Sequential Context of Movement. <i>Journal of Neurophysiology</i> , 2004, 91, 1748-1762.	0.9	31
29	The minimum information principle and its application to neural code analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3490-3495.	3.3	30
30	Motor cortical activity related to movement kinematics exhibits local spatial organization. <i>Cortex</i> , 2009, 45, 418-431.	1.1	28
31	Applying resampling methods to neurophysiological data. <i>Journal of Neuroscience Methods</i> , 2005, 145, 133-144.	1.3	24
32	Bidirectional Optogenetic Control of Inhibitory Neurons in Freely-Moving Mice. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 416-427.	2.5	17
33	A novel low-noise movement tracking system with real-time analog output for closed-loop experiments. <i>Journal of Neuroscience Methods</i> , 2019, 318, 69-77.	1.3	13
34	Spike-Centered Jitter Can Mistake Temporal Structure. <i>Neural Computation</i> , 2017, 29, 783-803.	1.3	12
35	High Fidelity Theta Phase Rolling of CA1 Neurons. <i>Journal of Neuroscience</i> , 2022, 42, 3184-3196.	1.7	12
36	Network resonance can be generated independently at distinct levels of neuronal organization. <i>PLoS Computational Biology</i> , 2022, 18, e1010364.	1.5	7

#	ARTICLE	IF	CITATIONS
37	Deconvolution improves the detection and quantification of spike transmission gain from spike trains. <i>Communications Biology</i> , 2022, 5, .	2.0	6
38	Outan: An On-Head System for Driving $\mu$ LED Arrays Implanted in Freely Moving Mice. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 303-313.	2.7	3
39	Implantable neural probes for chronic electrical recording and optical stimulation. , 2013, , .		1
40	Response and sample bridging in a primate short-term memory task. <i>Neurobiology of Learning and Memory</i> , 2019, 166, 107106.	1.0	0