## Anthony M Zador

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6430288/publications.pdf

Version: 2024-02-01

81900 9,902 72 39 citations h-index papers

69 g-index 92 92 92 9010 docs citations times ranked citing authors all docs

91884

#	Article	IF	CITATIONS
1	Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex. Nature, 2003, 426, 442-446.	27.8	1,220
2	Postsynaptic Receptor Trafficking Underlying a Form of Associative Learning. Science, 2005, 308, 83-88.	12.6	676
3	Sparse Representation of Sounds in the Unanesthetized Auditory Cortex. PLoS Biology, 2008, 6, e16.	5.6	493
4	Input synchrony and the irregular firing of cortical neurons. Nature Neuroscience, 1998, 1, 210-217.	14.8	462
5	Efficient Discrimination of Temporal Patterns by Motion-Sensitive Neurons in Primate Visual Cortex. Neuron, 1998, 20, 959-969.	8.1	422
6	Neural Representation and the Cortical Code. Annual Review of Neuroscience, 2000, 23, 613-647.	10.7	371
7	Synaptic Mechanisms of Forward Suppression in Rat Auditory Cortex. Neuron, 2005, 47, 437-445.	8.1	366
8	PINP: A New Method of Tagging Neuronal Populations for Identification during In Vivo Electrophysiological Recording. PLoS ONE, 2009, 4, e6099.	2.5	341
9	Binary Spiking in Auditory Cortex. Journal of Neuroscience, 2003, 23, 7940-7949.	3.6	314
10	Corticostriatal neurons in auditory cortex drive decisions during auditory discrimination. Nature, 2013, 497, 482-485.	27.8	300
11	A critique of pure learning and what artificial neural networks can learn from animal brains. Nature Communications, 2019, 10, 3770.	12.8	285
12	Engaging in an auditory task suppresses responses in auditory cortex. Nature Neuroscience, 2009, 12, 646-654.	14.8	282
13	High-Throughput Mapping of Single-Neuron Projections by Sequencing of Barcoded RNA. Neuron, 2016, 91, 975-987.	8.1	272
14	Linearity of Cortical Receptive Fields Measured with Natural Sounds. Journal of Neuroscience, 2004, 24, 1089-1100.	3.6	260
15	The logic of single-cell projections from visual cortex. Nature, 2018, 556, 51-56.	27.8	244
16	The auditory cortex mediates the perceptual effects of acoustic temporal expectation. Nature Neuroscience, 2011, 14, 246-251.	14.8	237
17	Selective corticostriatal plasticity during acquisition of an auditory discrimination task. Nature, 2015, 521, 348-351.	27.8	216
18	Impact of Synaptic Unreliability on the Information Transmitted by Spiking Neurons. Journal of Neurophysiology, 1998, 79, 1219-1229.	1.8	188

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19	Sources of PCR-induced distortions in high-throughput sequencing data sets. Nucleic Acids Research, 2015, 43, gkv717.	14.5	182
20	Threshold detection of wideband signals: A noise-induced maximum in the mutual information. Physical Review E, 1996, 54, R2185-R2188.	2.1	167
21	High-Throughput Mapping of Long-Range Neuronal Projection Using In Situ Sequencing. Cell, 2019, 179, 772-786.e19.	28.9	146
22	Non-Gaussian Membrane Potential Dynamics Imply Sparse, Synchronous Activity in Auditory Cortex. Journal of Neuroscience, 2006, 26, 12206-12218.	3.6	145
23	Cellular barcoding: lineage tracing, screening and beyond. Nature Methods, 2018, 15, 871-879.	19.0	136
24	Dynamic Stochastic Synapses as Computational Units. Neural Computation, 1999, 11, 903-917.	2.2	125
25	Efficient in situ barcode sequencing using padlock probe-based BaristaSeq. Nucleic Acids Research, 2018, 46, e22-e22.	14.5	120
26	Dynamic Synapses in the Cortex. Neuron, 1997, 19, 1-4.	8.1	118
27	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	27.8	117
28	The functional asymmetry of auditory cortex is reflected in the organization of local cortical circuits. Nature Neuroscience, 2010, 13, 1413-1420.	14.8	91
29	Shared and Private Variability in the Auditory Cortex. Journal of Neurophysiology, 2004, 92, 1840-1855.	1.8	90
30	Sequencing the Connectome. PLoS Biology, 2012, 10, e1001411.	5.6	90
31	Millisecond-scale differences in neural activity in auditory cortex can drive decisions. Nature Neuroscience, 2008, 11, 1262-1263.	14.8	84
32	Correlated Connectivity and the Distribution of Firing Rates in the Neocortex. Journal of Neuroscience, 2009, 29, 3685-3694.	3.6	83
33	Identification of a brainstem locus that inhibits tumor necrosis factor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29803-29810.	7.1	76
34	Long-Lasting Context Dependence Constrains Neural Encoding Models in Rodent Auditory Cortex. Journal of Neurophysiology, 2009, 102, 2638-2656.	1.8	70
35	Mice and rats achieve similar levels of performance in an adaptive decision-making task. Frontiers in Systems Neuroscience, 2014, 8, 173.	2.5	68
36	Asymmetric Dynamics in Optimal Variance Adaptation. Neural Computation, 1998, 10, 1179-1202.	2.2	64

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37	An International Laboratory for Systems and Computational Neuroscience. Neuron, 2017, 96, 1213-1218.	8.1	60
38	BRICseq Bridges Brain-wide Interregional Connectivity to Neural Activity and Gene Expression in Single Animals. Cell, 2020, 182, 177-188.e27.	28.9	58
39	PTEN Regulation of Local and Long-Range Connections in Mouse Auditory Cortex. Journal of Neuroscience, 2012, 32, 1643-1652.	3.6	56
40	Integrating barcoded neuroanatomy with spatial transcriptional profiling enables identification of gene correlates of projections. Nature Neuroscience, 2021, 24, 873-885.	14.8	55
41	Auditory Thalamus and Auditory Cortex Are Equally Modulated by Context during Flexible Categorization of Sounds. Journal of Neuroscience, 2014, 34, 5291-5301.	3.6	53
42	Differences in Sensitivity to Neural Timing among Cortical Areas. Journal of Neuroscience, 2012, 32, 15142-15147.	3.6	48
43	Long-term Cre-mediated retrograde tagging of neurons using a novel recombinant pseudorabies virus. Frontiers in Neuroanatomy, 2014, 8, 86.	1.7	42
44	Neural Coding: The enigma of the brain. Current Biology, 1995, 5, 1370-1371.	3.9	41
45	Synaptic transmission: Noisy synapses and noisy neurons. Current Biology, 1996, 6, 1217-1218.	3.9	41
46	Sparse Representations for the Cocktail Party Problem. Journal of Neuroscience, 2006, 26, 7477-7490.	3.6	41
47	Representations in auditory cortex. Current Opinion in Neurobiology, 2009, 19, 430-433.	4.2	36
48	In vivo generation of DNA sequence diversity for cellular barcoding. Nucleic Acids Research, 2014, 42, e127-e127.	14.5	36
49	Between the primate and â€reptilian' brain: Rodent models demonstrate the role of corticostriatal circuits in decision making. Neuroscience, 2015, 296, 66-74.	2.3	34
50	Up states are rare in awake auditory cortex. Journal of Neurophysiology, 2013, 109, 1989-1995.	1.8	33
51	Reliability and Representational Bandwidth in the Auditory Cortex. Neuron, 2005, 48, 479-488.	8.1	30
52	Using high-throughput barcode sequencing to efficiently map connectomes. Nucleic Acids Research, 2017, 45, e115-e115.	14.5	30
53	The basic unit of computation. Nature Neuroscience, 2000, 3, 1167-1167.	14.8	27
54	Toward the mechanisms of auditory attention. Hearing Research, 2007, 229, 180-185.	2.0	23

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55	A New Defective Helper RNA to Produce Recombinant Sindbis Virus that Infects Neurons but does not Propagate. Frontiers in Neuroanatomy, 2016, 10, 56.	1.7	17
56	BARcode DEmixing through Non-negative Spatial Regression (BarDensr). PLoS Computational Biology, 2021, 17, e1008256.	3.2	16
57	SYNPLA, a method to identify synapses displaying plasticity after learning. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3214-3219.	7.1	10
58	Corticostriatal Plasticity Established by Initial Learning Persists after Behavioral Reversal. ENeuro, 2021, 8, ENEURO.0209-20.2021.	1.9	10
59	Synaptic connectivity and computation. Nature Neuroscience, 2001, 4, 1157-1158.	14.8	9
60	AMPA Receptor Trafficking and GluR1. Science, 2005, 310, 234-235.	12.6	8
61	Thalamocortical Synapses. Neuron, 1999, 23, 198-200.	8.1	7
62	Efficiency measures. Nature, 2006, 439, 920-921.	27.8	6
63	Assessing the replicability of spatial gene expression using atlas data from the adult mouse brain. PLoS Biology, 2021, 19, e3001341.	5.6	6
64	Neural Mechanisms of Selective Auditory Attention in Rats (Dissertation). Nature Precedings, 2008, , .	0.1	3
65	Network cloning using DNA barcodes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9610-9615.	7.1	3
66	Auditory Modeling Gets an Edge. Journal of Neurophysiology, 2003, 90, 3581-3582.	1.8	2
67	Neural Gallops across Auditory Streams. Neuron, 2005, 48, 5-7.	8.1	2
68	Auditory cortex mediates the perceptual effects of acoustic temporal expectation. Nature Precedings, 2010, , .	0.1	2
69	Sparsification for Monaural Source Separation. Signals and Communication Technology, 2007, , 387-410.	0.5	2
70	Sound processing takes motor control. Nature, 2014, 513, 180-181.	27.8	1
71	Neuronal circuitry and population activity. Current Opinion in Neurobiology, 2007, 17, 395-396.	4.2	0
72	Long-Lasting Context Dependence Constrains Neural Encoding Models in Rodent Auditory Cortex. Nature Precedings, 2008, , .	0.1	0