Anthony M Zador

List of Publications by Year
in descending order

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

Version: 2024-02-01

72 papers	9,902 citations	81900 39 h-index	91884 69 g-index
92 all docs	92 docs citations	92 times ranked	9010 citing authors

#	Article	IF	Citations
1	Corticostriatal Plasticity Established by Initial Learning Persists after Behavioral Reversal. ENeuro, 2021, 8, ENEURO.0209-20.2021.	1.9	10
2	BARcode DEmixing through Non-negative Spatial Regression (BarDensr). PLoS Computational Biology, 2021, 17, e1008256.	3.2	16
3	Integrating barcoded neuroanatomy with spatial transcriptional profiling enables identification of gene correlates of projections. Nature Neuroscience, 2021, 24, 873-885.	14.8	55
4	Assessing the replicability of spatial gene expression using atlas data from the adult mouse brain. PLoS Biology, 2021, 19, e3001341.	5.6	6
5	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	27.8	117
6	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
7	BRICseq Bridges Brain-wide Interregional Connectivity to Neural Activity and Gene Expression in Single Animals. Cell, 2020, 182, 177-188.e27.	28.9	58
8	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
9	A critique of pure learning and what artificial neural networks can learn from animal brains. Nature Communications, 2019, 10, 3770.	12.8	285
10	High-Throughput Mapping of Long-Range Neuronal Projection Using In Situ Sequencing. Cell, 2019, 179, 772-786.e19.	28.9	146
11	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
12	Efficient in situ barcode sequencing using padlock probe-based BaristaSeq. Nucleic Acids Research, 2018, 46, e22-e22.	14.5	120
13	The logic of single-cell projections from visual cortex. Nature, 2018, 556, 51-56.	27.8	244
14	Cellular barcoding: lineage tracing, screening and beyond. Nature Methods, 2018, 15, 871-879.	19.0	136
15	Using high-throughput barcode sequencing to efficiently map connectomes. Nucleic Acids Research, 2017, 45, e115-e115.	14.5	30
16	An International Laboratory for Systems and Computational Neuroscience. Neuron, 2017, 96, 1213-1218.	8.1	60
17	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
18	High-Throughput Mapping of Single-Neuron Projections by Sequencing of Barcoded RNA. Neuron, 2016, 91, 975-987.	8.1	272

#	Article	IF	Citations
19	Sources of PCR-induced distortions in high-throughput sequencing data sets. Nucleic Acids Research, 2015, 43, gkv717.	14.5	182
20	Between the primate and â€˜reptilianâ€™ brain: Rodent models demonstrate the role of corticostriatal circuits in decision making. Neuroscience, 2015, 296, 66-74.	2.3	34
21	Selective corticostriatal plasticity during acquisition of an auditory discrimination task. Nature, 2015, 521, 348-351.	27.8	216
22	In vivo generation of DNA sequence diversity for cellular barcoding. Nucleic Acids Research, 2014, 42, e127-e127.	14.5	36
23	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
24	Sound processing takes motor control. Nature, 2014, 513, 180-181.	27.8	1
25	Mice and rats achieve similar levels of performance in an adaptive decision-making task. Frontiers in Systems Neuroscience, 2014, 8, 173.	2.5	68
26	Long-term Cre-mediated retrograde tagging of neurons using a novel recombinant pseudorabies virus. Frontiers in Neuroanatomy, 2014, 8, 86.	1.7	42
27	Corticostriatal neurons in auditory cortex drive decisions during auditory discrimination. Nature, 2013, 497, 482-485.	27.8	300
28	Up states are rare in awake auditory cortex. Journal of Neurophysiology, 2013, 109, 1989-1995.	1.8	33
29	Sequencing the Connectome. PLoS Biology, 2012, 10, e1001411.	5.6	90
30	PTEN Regulation of Local and Long-Range Connections in Mouse Auditory Cortex. Journal of Neuroscience, 2012, 32, 1643-1652.	3.6	56
31	Differences in Sensitivity to Neural Timing among Cortical Areas. Journal of Neuroscience, 2012, 32, 15142-15147.	3.6	48
32	The auditory cortex mediates the perceptual effects of acoustic temporal expectation. Nature Neuroscience, 2011, 14, 246-251.	14.8	237
33	The functional asymmetry of auditory cortex is reflected in the organization of local cortical circuits. Nature Neuroscience, 2010, 13, 1413-1420.	14.8	91
34	Auditory cortex mediates the perceptual effects of acoustic temporal expectation. Nature Precedings, 2010, , .	0.1	2
35	PINP: A New Method of Tagging Neuronal Populations for Identification during In Vivo Electrophysiological Recording. PLoS ONE, 2009, 4, e6099.	2.5	341
36	Representations in auditory cortex. Current Opinion in Neurobiology, 2009, 19, 430-433.	4.2	36

#	Article	IF	Citations
37	Engaging in an auditory task suppresses responses in auditory cortex. Nature Neuroscience, 2009, 12, 646-654.	14.8	282
38	Long-Lasting Context Dependence Constrains Neural Encoding Models in Rodent Auditory Cortex. Journal of Neurophysiology, 2009, 102, 2638-2656.	1.8	70
39	Correlated Connectivity and the Distribution of Firing Rates in the Neocortex. Journal of Neuroscience, 2009, 29, 3685-3694.	3.6	83
40	Millisecond-scale differences in neural activity in auditory cortex can drive decisions. Nature Neuroscience, 2008, 11, 1262-1263.	14.8	84
41	Sparse Representation of Sounds in the Unanesthetized Auditory Cortex. PLoS Biology, 2008, 6, e16.	5.6	493
42	Neural Mechanisms of Selective Auditory Attention in Rats (Dissertation). Nature Precedings, 2008, , .	0.1	3
43	Long-Lasting Context Dependence Constrains Neural Encoding Models in Rodent Auditory Cortex. Nature Precedings, 2008, , .	0.1	0
44	Toward the mechanisms of auditory attention. Hearing Research, 2007, 229, 180-185.	2.0	23
45	Neuronal circuitry and population activity. Current Opinion in Neurobiology, 2007, 17, 395-396.	4.2	0
46	Sparsification for Monaural Source Separation. Signals and Communication Technology, 2007, , 387-410.	0.5	2
47	Efficiency measures. Nature, 2006, 439, 920-921.	27.8	6
48	Non-Gaussian Membrane Potential Dynamics Imply Sparse, Synchronous Activity in Auditory Cortex. Journal of Neuroscience, 2006, 26, 12206-12218.	3.6	145
49	Sparse Representations for the Cocktail Party Problem. Journal of Neuroscience, 2006, 26, 7477-7490.	3.6	41
50	AMPA Receptor Trafficking and GluR1. Science, 2005, 310, 234-235.	12.6	8
51	Postsynaptic Receptor Trafficking Underlying a Form of Associative Learning. Science, 2005, 308, 83-88.	12.6	676
52	Synaptic Mechanisms of Forward Suppression in Rat Auditory Cortex. Neuron, 2005, 47, 437-445.	8.1	366
53	Neural Gallops across Auditory Streams. Neuron, 2005, 48, 5-7.	8.1	2
54	Reliability and Representational Bandwidth in the Auditory Cortex. Neuron, 2005, 48, 479-488.	8.1	30

#	Article	IF	Citations
55	Linearity of Cortical Receptive Fields Measured with Natural Sounds. Journal of Neuroscience, 2004, 24, 1089-1100.	3.6	260
56	Shared and Private Variability in the Auditory Cortex. Journal of Neurophysiology, 2004, 92, 1840-1855.	1.8	90
57	Balanced inhibition underlies tuning and sharpens spike timing in auditory cortex. Nature, 2003, 426, 442-446.	27.8	1,220
58	Binary Spiking in Auditory Cortex. Journal of Neuroscience, 2003, 23, 7940-7949.	3.6	314
59	Auditory Modeling Gets an Edge. Journal of Neurophysiology, 2003, 90, 3581-3582.	1.8	2
60	Synaptic connectivity and computation. Nature Neuroscience, 2001, 4, 1157-1158.	14.8	9
61	The basic unit of computation. Nature Neuroscience, 2000, 3, 1167-1167.	14.8	27
62	Neural Representation and the Cortical Code. Annual Review of Neuroscience, 2000, 23, 613-647.	10.7	371
63	Dynamic Stochastic Synapses as Computational Units. Neural Computation, 1999, 11, 903-917.	2.2	125
64	Thalamocortical Synapses. Neuron, 1999, 23, 198-200.	8.1	7
65	Input synchrony and the irregular firing of cortical neurons. Nature Neuroscience, 1998, 1, 210-217.	14.8	462
66	Efficient Discrimination of Temporal Patterns by Motion-Sensitive Neurons in Primate Visual Cortex. Neuron, 1998, 20, 959-969.	8.1	422
67	Asymmetric Dynamics in Optimal Variance Adaptation. Neural Computation, 1998, 10, 1179-1202.	2.2	64
68	Impact of Synaptic Unreliability on the Information Transmitted by Spiking Neurons. Journal of Neurophysiology, 1998, 79, 1219-1229.	1.8	188
69	Dynamic Synapses in the Cortex. Neuron, 1997, 19, 1-4.	8.1	118
70	Synaptic transmission: Noisy synapses and noisy neurons. Current Biology, 1996, 6, 1217-1218.	3.9	41
71	Threshold detection of wideband signals: A noise-induced maximum in the mutual information. Physical Review E, 1996, 54, R2185-R2188.	2.1	167
72	Neural Coding: The enigma of the brain. Current Biology, 1995, 5, 1370-1371.	3.9	41