

Arnd Roth

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

1,933
citations

1163117

8
h-index

1474206

9
g-index

12
all docs

12
docs citations

12
times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	Active dendrites enable strong but sparse inputs to determine orientation selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	36
2	How many neurons are sufficient for perception of cortical activity?. ELife, 2020, 9, .	6.0	82
3	Sensitivity to perturbations in vivo implies high noise and suggests rate coding in cortex. Nature, 2010, 466, 123-127.	27.8	399
4	Modeling Synapses. , 2009, , 139-160.		47
5	Electrical Properties of Dendrites Relevant to Dendritic Transmitter Release. , 2005, , 55-67.		2
6	Rebuilding Dendritic Democracy. Focus on "Equalization of Synaptic Efficacy by Activity- and Timing-Dependent Synaptic Plasticity". Journal of Neurophysiology, 2004, 91, 1941-1942.	1.8	4
7	Dynamic Receptive Fields of Reconstructed Pyramidal Cells in Layers 3 and 2 of Rat Somatosensory Barrel Cortex. Journal of Physiology, 2003, 553, 243-265.	2.9	260
8	Coincidence Detection in Pyramidal Neurons Is Tuned by Their Dendritic Branching Pattern. Journal of Neurophysiology, 2003, 89, 3143-3154.	1.8	244
9	Propagation of Action Potentials in Dendrites Depends on Dendritic Morphology. Journal of Neurophysiology, 2001, 85, 926-937.	1.8	537
10	Compartmental models of rat cerebellar Purkinje cells based on simultaneous somatic and dendritic patch-clamp recordings. Journal of Physiology, 2001, 535, 445-472.	2.9	246
11	Competitive calcium binding: implications for dendritic calcium signaling. Journal of Computational Neuroscience, 1998, 5, 331-348.	1.0	74