David Ferster

List of Publications by Year
in descending order

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43	8,822	117625	254184
papers	citations	34	43
		h-index	g-index

43	43	43	4947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional Coupling from Simple to Complex Cells in the Visually Driven Cortical Circuit. Journal of Neuroscience, 2013, 33, 18855-18866.	3.6	26
2	Feedforward Origins of Response Variability Underlying Contrast Invariant Orientation Tuning in Cat Visual Cortex. Neuron, 2012, 74, 911-923.	8.1	57
3	Mechanisms of Neuronal Computation in Mammalian Visual Cortex. Neuron, 2012, 75, 194-208.	8.1	160
4	Each synapse to its own. Nature, 2010, 464, 1290-1291.	27.8	7
5	Mechanisms of Direction Selectivity in Cat Primary Visual Cortex as Revealed by Visual Adaptation. Journal of Neurophysiology, 2010, 104, 2615-2623.	1.8	21
6	Membrane Potential Synchrony in Primary Visual Cortex during Sensory Stimulation. Neuron, 2010, 68, 1187-1201.	8.1	72
7	Stimulus onset quenches neural variability: a widespread cortical phenomenon. Nature Neuroscience, 2010, 13, 369-378.	14.8	907
8	Inhibitory Stabilization of the Cortical Network Underlies Visual Surround Suppression. Neuron, 2009, 62, 578-592.	8.1	398
9	Inhibition, Spike Threshold, and Stimulus Selectivity in Primary Visual Cortex. Neuron, 2008, 57, 482-497.	8.1	320
10	Computational Diversity in Complex Cells of Cat Primary Visual Cortex. Journal of Neuroscience, 2007, 27, 9638-9648.	3.6	32
11	The Emergence of Contrast-Invariant Orientation Tuning in Simple Cells of Cat Visual Cortex. Neuron, 2007, 54, 137-152.	8.1	217
12	Mechanisms underlying cross-orientation suppression in cat visual cortex. Nature Neuroscience, 2006, 9, 552-561.	14.8	158
13	Short-Term Depression in Thalamocortical Synapses of Cat Primary Visual Cortex. Journal of Neuroscience, 2005, 25, 7179-7190.	3.6	128
14	Direction Selectivity of Excitation and Inhibition in Simple Cells of the Cat Primary Visual Cortex. Neuron, 2005, 45, 133-145.	8.1	231
15	Intracellular Measurements of Spatial Integration and the MAX Operation in Complex Cells of the Cat Primary Visual Cortex. Journal of Neurophysiology, 2004, 92, 2704-2713.	1.8	116
16	The contribution of spike threshold to the dichotomy of cortical simple and complex cells. Nature Neuroscience, 2004, 7, 1113-1122.	14.8	200
17	NEUROSCIENCE: Blocking Plasticity in the Visual Cortex. Science, 2004, 303, 1619-1621.	12.6	18
18	Synfire Chains and Cortical Songs: Temporal Modules of Cortical Activity. Science, 2004, 304, 559-564.	12.6	755

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19	A New Mechanism for Neuronal Gain Control (or How the Gain in Brains Has Mainly Been Explained). Neuron, 2002, 35, 602-604.	8.1	29
20	Prediction of Orientation Selectivity from Receptive Field Architecture in Simple Cells of Cat Visual Cortex. Neuron, 2001, 30, 263-274.	8.1	72
21	Membrane Potential and Conductance Changes Underlying Length Tuning of Cells in Cat Primary Visual Cortex. Journal of Neuroscience, 2001, 21, 2104-2112.	3.6	90
22	Dynamics of the orientation-tuned membrane potential response in cat primary visual cortex. Nature Neuroscience, 2001, 4, 1014-1019.	14.8	50
23	Stimulus dependence of two-state fluctuations of membrane potential in cat visual cortex. Nature Neuroscience, 2000, 3, 617-621.	14.8	201
24	Membrane Potential and Firing Rate in Cat Primary Visual Cortex. Journal of Neuroscience, 2000, 20, 470-484.	3.6	372
25	Orientation Tuning of Input Conductance, Excitation, and Inhibition in Cat Primary Visual Cortex. Journal of Neurophysiology, 2000, 84, 909-926.	1.8	446
26	The Contribution of Noise to Contrast Invariance of Orientation Tuning in Cat Visual Cortex. Science, 2000, 290, 1968-1972.	12.6	381
27	Neural Mechanisms of Orientation Selectivity in the Visual Cortex. Annual Review of Neuroscience, 2000, 23, 441-471.	10.7	573
28	Synchronous Membrane Potential Fluctuations in Neurons of the Cat Visual Cortex. Neuron, 1999, 22, 361-374.	8.1	400
29	A sense of direction. Nature, 1998, 392, 433-434.	27.8	7
30	Strength and Orientation Tuning of the Thalamic Input to Simple Cells Revealed by Electrically Evoked Cortical Suppression. Neuron, 1998, 20, 1177-1189.	8.1	236
31	Pattern adaptation and cross-orientation interactions in the primary visual cortex. Neuropharmacology, 1998, 37, 501-511.	4.1	115
32	A Tonic Hyperpolarization Underlying Contrast Adaptation in Cat Visual Cortex. Science, 1997, 276, 949-952.	12.6	313
33	Direction Selectivity of Synaptic Potentials in Simple Cells of the Cat Visual Cortex. Journal of Neurophysiology, 1997, 78, 2772-2789.	1.8	142
34	Orientation selectivity of thalamic input to simple cells of cat visual cortex. Nature, 1996, 380, 249-252.	27.8	475
35	Chapter 20 The synaptic inputs to simple cells of the cat visual cortex. Progress in Brain Research, 1992, 90, 423-441.	1.4	14
36	Binocular convergence of excitatory and inhibitory synaptic pathways onto neurons of cat visual cortex. Visual Neuroscience, 1990, 4, 625-629.	1.0	5

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37	X- and Y-mediated current sources in areas 17 and 18 of cat visual cortex. Visual Neuroscience, 1990, 4, 135-145.	1.0	43
38	X- and Y-mediated synaptic potentials in neurons of areas 17 and 18 of cat visual cortex. Visual Neuroscience, 1990, 4, 115-133.	1.0	51
39	Neuronal connections underlying orientation selectivity in cat visual cortex. Trends in Neurosciences, 1987, 10, 487-492.	8.6	76
40	A comparison of binocular depth mechanisms in areas 17 and 18 of the cat visual cortex. Journal of Physiology, 1981, 311, 623-655.	2.9	258
41	Proportion of interneurons in the cat's lateral geniculate nucleus. Brain Research, 1979, 164, 304-308.	2.2	89
42	The axonal arborizations of lateral geniculate neurons in the striate cortex of the cat. Journal of Comparative Neurology, 1978, 182, 923-944.	1.6	329
43	Relay cell classes in the lateral geniculate nucleus of the cat and the effects of visual deprivation. Journal of Comparative Neurology, 1977, 172, 563-584.	1.6	232