

Charles M Gray

List of Publications by Year in descending order

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34
papers

9,230
citations

279487

23
h-index

476904

29
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all docs

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docs citations

34
times ranked

5863
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillatory responses in cat visual cortex exhibit inter-columnar synchronization which reflects global stimulus properties. <i>Nature</i> , 1989, 338, 334-337.	13.7	4,087
2	Synchronous oscillations in neuronal systems: Mechanisms and functions. <i>Journal of Computational Neuroscience</i> , 1994, 1, 11-38.	0.6	707
3	Tetrodes markedly improve the reliability and yield of multiple single-unit isolation from multi-unit recordings in cat striate cortex. <i>Journal of Neuroscience Methods</i> , 1995, 63, 43-54.	1.3	654
4	The Temporal Correlation Hypothesis of Visual Feature Integration. <i>Neuron</i> , 1999, 24, 31-47.	3.8	504
5	Stimulus-Dependent Neuronal Oscillations in Cat Visual Cortex: Inter-Columnar Interaction as Determined by Cross-Correlation Analysis. <i>European Journal of Neuroscience</i> , 1990, 2, 588-606.	1.2	443
6	Cellular Mechanisms Contributing to Response Variability of Cortical Neurons <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 1999, 19, 2209-2223.	1.7	384
7	Electrophysiological Classes of Cat Primary Visual Cortical Neurons <i>In Vivo</i> as Revealed by Quantitative Analyses. <i>Journal of Neurophysiology</i> , 2003, 89, 1541-1566.	0.9	361
8	Synchronization of oscillatory neuronal responses in cat striate cortex: Temporal properties. <i>Visual Neuroscience</i> , 1992, 8, 337-347.	0.5	358
9	Stimulus-Dependent Neuronal Oscillations in Cat Visual Cortex: Receptive Field Properties and Feature Dependence. <i>European Journal of Neuroscience</i> , 1990, 2, 607-619.	1.2	333
10	Adaptive Coincidence Detection and Dynamic Gain Control in Visual Cortical Neurons <i>In Vivo</i> . <i>Neuron</i> , 2003, 37, 513-523.	3.8	247
11	Orientation Selectivity in Pinwheel Centers in Cat Striate Cortex. <i>Science</i> , 1997, 276, 1551-1555.	6.0	186
12	Stimulus-Dependent Neuronal Oscillations and Local Synchronization in Striate Cortex of the Alert Cat. <i>Journal of Neuroscience</i> , 1997, 17, 3239-3253.	1.7	169
13	Dynamics of Striate Cortical Activity in the Alert Macaque: II. Fast Time Scale Synchronization. <i>Cerebral Cortex</i> , 2000, 10, 1117-1131.	1.6	133
14	Optimizing the Decoding of Movement Goals from Local Field Potentials in Macaque Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 18412-18422.	1.7	100
15	Heterogeneity in the Responses of Adjacent Neurons to Natural Stimuli in Cat Striate Cortex. <i>Journal of Neurophysiology</i> , 2007, 97, 1326-1341.	0.9	85
16	A Large-Scale Semi-Chronic Microdrive Recording System for Non-Human Primates. <i>Neuron</i> , 2017, 96, 769-782.e2.	3.8	58
17	Feature-Based Visual Short-Term Memory Is Widely Distributed and Hierarchically Organized. <i>Neuron</i> , 2018, 99, 215-226.e4.	3.8	55
18	Frontoparietal Correlation Dynamics Reveal Interplay between Integration and Segregation during Visual Working Memory. <i>Journal of Neuroscience</i> , 2014, 34, 13600-13613.	1.7	48

#	ARTICLE	IF	CITATIONS
19	Simulations of Intrinsically Bursting Neocortical Pyramidal Neurons. <i>Neural Computation</i> , 1994, 6, 1086-1110.	1.3	46
20	Natural Movies Evoke Spike Trains with Low Spike Time Variability in Cat Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 15844-15860.	1.7	45
21	Modeling Higher-Order Correlations within Cortical Microcolumns. <i>PLoS Computational Biology</i> , 2014, 10, e1003684.	1.5	45
22	Multichannel Micromanipulator and Chamber System for Recording Multineuronal Activity in Alert, Non-Human Primates. <i>Journal of Neurophysiology</i> , 2007, 98, 527-536.	0.9	44
23	Heterogeneity in local distributions of orientation-selective neurons in the cat primary visual cortex. <i>Visual Neuroscience</i> , 1996, 13, 509-516.	0.5	43
24	Stimulus-selective spiking is driven by the relative timing of synchronous excitation and disinhibition in cat striate neurons <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2008, 28, 1286-1300.	1.2	23
25	Dynamics of Stimulus-Evoked Spike Timing Correlations in the Cat Lateral Geniculate Nucleus. <i>Journal of Neurophysiology</i> , 2010, 104, 3276-3292.	0.9	15
26	Sorting Overlapping Spike Waveforms from Electrode and Tetrode Recordings. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 53.	1.3	14
27	Mechanisms Underlying the Generation of Neuronal Oscillations in Cat Visual Cortex. , 1992, , 29-45.		14
28	Methods, caveats and the future of large-scale microelectrode recordings in the non-human primate. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 149.	1.2	13
29	Experimental observation of phase-flip transitions in the brain. <i>Physical Review E</i> , 2016, 94, 042420.	0.8	10
30	Unitary Event Analysis of Synchronous Activities in Cat Lateral Geniculate Nucleus (LGN). , 2003, , 190-193.		2
31	Spatiotemporal Dynamics of Synchronous Activity across Multiple Areas of the Visual Cortex in the Alert Monkey. , 2011, , 233-254.		2
32	Responses of primary visual cortical neurons to natural movies in anesthetized cat. <i>BMC Neuroscience</i> , 2008, 9, .	0.8	1
33	Optimizing recording depth to decode movement goals from cortical field potentials. , 2011, , .		1
34	Sparse coding model captures V1 population response statistics to natural movies. <i>BMC Neuroscience</i> , 2013, 14, P334.	0.8	0