

David Hansel

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

3,492
citations

257450

24
h-index

377865

34
g-index

43
all docs

43
docs citations

43
times ranked

3194
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms underlying the response of mouse cortical networks to optogenetic manipulation. <i>ELife</i> , 2020, 9, .	6.0	47
2	Idiosyncratic choice bias naturally emerges from intrinsic stochasticity in neuronal dynamics. <i>Nature Human Behaviour</i> , 2019, 3, 1190-1202.	12.0	12
3	Dynamics and orientation selectivity in a cortical model of rodent V1 with excess bidirectional connections. <i>Scientific Reports</i> , 2019, 9, 3334.	3.3	3
4	Spatiotemporal constraints on optogenetic inactivation in cortical circuits. <i>ELife</i> , 2019, 8, .	6.0	150
5	Strength of Correlations in Strongly Recurrent Neuronal Networks. <i>Physical Review X</i> , 2018, 8, .	8.9	23
6	Emergent Orientation Selectivity from Random Networks in Mouse Visual Cortex. <i>Cell Reports</i> , 2018, 24, 2042-2050.e6.	6.4	37
7	A canonical neural mechanism for behavioral variability. <i>Nature Communications</i> , 2017, 8, 15415.	12.8	38
8	The Role of Striatal Feedforward Inhibition in the Maintenance of Absence Seizures. <i>Journal of Neuroscience</i> , 2016, 36, 9618-9632.	3.6	33
9	A reanalysis of “Two types of asynchronous activity in networks of excitatory and inhibitory spiking neurons” <i>Research</i> , 2016, 5, 2043.	1.6	15
10	Asynchronous Rate Chaos in Spiking Neuronal Circuits. <i>PLoS Computational Biology</i> , 2015, 11, e1004266.	3.2	76
11	Interference and Shaping in Sensorimotor Adaptations with Rewards. <i>PLoS Computational Biology</i> , 2014, 10, e1003377.	3.2	16
12	Short-Term Plasticity Explains Irregular Persistent Activity in Working Memory Tasks. <i>Journal of Neuroscience</i> , 2013, 33, 133-149.	3.6	106
13	The Mechanism of Orientation Selectivity in Primary Visual Cortex without a Functional Map. <i>Journal of Neuroscience</i> , 2012, 32, 4049-4064.	3.6	118
14	Bistability and Spatiotemporal Irregularity in Neuronal Networks with Nonlinear Synaptic Transmission. <i>Physical Review Letters</i> , 2012, 108, 158101.	7.8	69
15	On the Distribution of Firing Rates in Networks of Cortical Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 16217-16226.	3.6	192
16	Short-Term Facilitation may Stabilize Parametric Working Memory Trace. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 40.	2.1	94
17	Power-Law Input-Output Transfer Functions Explain the Contrast-Response and Tuning Properties of Neurons in Visual Cortex. <i>PLoS Computational Biology</i> , 2011, 7, e1001078.	3.2	30
18	Synchronous Chaos and Broad Band Gamma Rhythm in a Minimal Multi-Layer Model of Primary Visual Cortex. <i>PLoS Computational Biology</i> , 2011, 7, e1002176.	3.2	53

#	ARTICLE	IF	CITATIONS
19	Very long transients, irregular firing, and chaotic dynamics in networks of randomly connected inhibitory integrate-and-fire neurons. <i>Physical Review E</i> , 2009, 79, 031909.	2.1	66
20	Mechanisms of Firing Patterns in Fast-Spiking Cortical Interneurons. <i>PLoS Computational Biology</i> , 2007, 3, e156.	3.2	108
21	Temporal Decorrelation of Collective Oscillations in Neural Networks with Local Inhibition and Long-Range Excitation. <i>Physical Review Letters</i> , 2007, 99, 238106.	7.8	67
22	Late emergence of synchronized oscillatory activity in the pallidum during progressive parkinsonism. <i>European Journal of Neuroscience</i> , 2007, 26, 1701-1713.	2.6	139
23	Rate Models with Delays and the Dynamics of Large Networks of Spiking Neurons. <i>Progress of Theoretical Physics Supplement</i> , 2006, 161, 68-85.	0.1	22
24	Competition between Feedback Loops Underlies Normal and Pathological Dynamics in the Basal Ganglia. <i>Journal of Neuroscience</i> , 2006, 26, 3567-3583.	3.6	289
25	How Noise Affects the Synchronization Properties of Recurrent Networks of Inhibitory Neurons. <i>Neural Computation</i> , 2006, 18, 1066-1110.	2.2	75
26	Teaching assistants. <i>Les Houches Summer School Proceedings</i> , 2005, 80, x.	0.2	0
27	Subthalamic high frequency stimulation resets subthalamic firing and reduces abnormal oscillations. <i>Brain</i> , 2005, 128, 2372-2382.	7.6	327
28	The Combined Effects of Inhibitory and Electrical Synapses in Synchrony. <i>Neural Computation</i> , 2005, 17, 633-670.	2.2	98
29	Role of Delays in Shaping Spatiotemporal Dynamics of Neuronal Activity in Large Networks. <i>Physical Review Letters</i> , 2005, 94, 238103.	7.8	261
30	Mechanisms of Firing Patterns in Fast-Spiking Cortical Interneurons. <i>PLoS Computational Biology</i> , 2005, preprint, e156.	3.2	1
31	Rate Models for Conductance-Based Cortical Neuronal Networks. <i>Neural Computation</i> , 2003, 15, 1809-1841.	2.2	190
32	Electrical Synapses and Synchrony: The Role of Intrinsic Currents. <i>Journal of Neuroscience</i> , 2003, 23, 6280-6294.	3.6	152
33	How Spike Generation Mechanisms Determine the Neuronal Response to Fluctuating Inputs. <i>Journal of Neuroscience</i> , 2003, 23, 11628-11640.	3.6	485
34	Traveling waves and the processing of weakly tuned inputs in a cortical network module. <i>Journal of Computational Neuroscience</i> , 1997, 4, 57-77.	1.0	84
35	Computing with a difference neuron. <i>Network: Computation in Neural Systems</i> , 1992, 3, 187-204.	3.6	2