

Peter J Magill

List of Publications by Year in descending order

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58
papers

9,153
citations

66343

42
h-index

149698

56
g-index

69
all docs

69
docs citations

69
times ranked

7585
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain-state- and cell-type-specific firing of hippocampal interneurons in vivo. <i>Nature</i> , 2003, 421, 844-848.	27.8	1,187
2	Uniform Inhibition of Dopamine Neurons in the Ventral Tegmental Area by Aversive Stimuli. <i>Science</i> , 2004, 303, 2040-2042.	12.6	723
3	Move to the rhythm: oscillations in the subthalamic nucleusâ€“external globus pallidus network. <i>Trends in Neurosciences</i> , 2002, 25, 525-531.	8.6	579
4	Disrupted Dopamine Transmission and the Emergence of Exaggerated Beta Oscillations in Subthalamic Nucleus and Cerebral Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 4795-4806.	3.6	413
5	Parkinsonian Beta Oscillations in the External Globus Pallidus and Their Relationship with Subthalamic Nucleus Activity. <i>Journal of Neuroscience</i> , 2008, 28, 14245-14258.	3.6	392
6	Dichotomous Organization of the External Globus Pallidus. <i>Neuron</i> , 2012, 74, 1075-1086.	8.1	367
7	Dopamine depletion increases the power and coherence of β^2 -oscillations in the cerebral cortex and subthalamic nucleus of the awake rat. <i>European Journal of Neuroscience</i> , 2005, 21, 1413-1422.	2.6	352
8	Spike timing of dendrite-targeting bistratified cells during hippocampal network oscillations in vivo. <i>Nature Neuroscience</i> , 2004, 7, 41-47.	14.8	339
9	Pedunculopontine nucleus and basal ganglia: distant relatives or part of the same family?. <i>Trends in Neurosciences</i> , 2004, 27, 585-588.	8.6	304
10	Relationship of Activity in the Subthalamic Nucleusâ€“Globus Pallidus Network to Cortical Electroencephalogram. <i>Journal of Neuroscience</i> , 2000, 20, 820-833.	3.6	293
11	Deficits in dopaminergic transmission precede neuron loss and dysfunction in a new Parkinson model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4016-25.	7.1	259
12	Prototypic and Arkypallidal Neurons in the Dopamine-Intact External Globus Pallidus. <i>Journal of Neuroscience</i> , 2015, 35, 6667-6688.	3.6	200
13	Inhibition of 5-HT neuron activity and induction of depressive-like behavior by high-frequency stimulation of the subthalamic nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17087-17092.	7.1	190
14	K-ATP channels in dopamine substantia nigra neurons control bursting and novelty-induced exploration. <i>Nature Neuroscience</i> , 2012, 15, 1272-1280.	14.8	178
15	Action initiation shapes mesolimbic dopamine encoding of future rewards. <i>Nature Neuroscience</i> , 2016, 19, 34-36.	14.8	177
16	Cholinergic brainstem neurons modulate cortical gamma activity during slow oscillations. <i>Journal of Physiology</i> , 2008, 586, 2947-2960.	2.9	175
17	Alterations in Brain Connectivity Underlying Beta Oscillations in Parkinsonism. <i>PLoS Computational Biology</i> , 2011, 7, e1002124.	3.2	160
18	Synchronous Unit Activity and Local Field Potentials Evoked in the Subthalamic Nucleus by Cortical Stimulation. <i>Journal of Neurophysiology</i> , 2004, 92, 700-714.	1.8	149

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19	Cell-Type-Specific Recruitment of Amygdala Interneurons to Hippocampal Theta Rhythm and Noxious Stimuli <i>In Vivo</i> . <i>Neuron</i> , 2012, 74, 1059-1074.	8.1	145
20	Representation of spontaneous movement by dopaminergic neurons is cell-type selective and disrupted in parkinsonism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2180-8.	7.1	145
21	Novel and Distinct Operational Principles of Intralaminar Thalamic Neurons and Their Striatal Projections. <i>Journal of Neuroscience</i> , 2007, 27, 4374-4384.	3.6	144
22	Distinct Developmental Origins Manifest in the Specialized Encoding of Movement by Adult Neurons of the External Globus Pallidus. <i>Neuron</i> , 2015, 86, 501-513.	8.1	127
23	Structural correlates of heterogeneous in vivo activity of midbrain dopaminergic neurons. <i>Nature Neuroscience</i> , 2012, 15, 613-619.	14.8	125
24	A Single-Cell Analysis of Intrinsic Connectivity in the Rat Globus Pallidus. <i>Journal of Neuroscience</i> , 2007, 27, 6352-6362.	3.6	121
25	Cortical and Thalamic Excitation Mediate the Multiphasic Responses of Striatal Cholinergic Interneurons to Motivationally Salient Stimuli. <i>Journal of Neuroscience</i> , 2014, 34, 3101-3117.	3.6	111
26	A Hippocampus-Accumbens Tripartite Neuronal Motif Guides Appetitive Memory in Space. <i>Cell</i> , 2019, 176, 1393-1406.e16.	28.9	109
27	Brain State—Dependency of Coherent Oscillatory Activity in the Cerebral Cortex and Basal Ganglia of the Rat. <i>Journal of Neurophysiology</i> , 2004, 92, 2122-2136.	1.8	102
28	Oscillatory Local Field Potentials Recorded from the Subthalamic Nucleus of the Alert Rat. <i>Experimental Neurology</i> , 2002, 177, 581-585.	4.1	101
29	A Population of Indirect Pathway Striatal Projection Neurons Is Selectively Entrained to Parkinsonian Beta Oscillations. <i>Journal of Neuroscience</i> , 2017, 37, 9977-9998.	3.6	98
30	Temporal evolution of beta bursts in the parkinsonian cortical and basal ganglia network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16095-16104.	7.1	98
31	Activity of Neurochemically Heterogeneous Dopaminergic Neurons in the Substantia Nigra during Spontaneous and Driven Changes in Brain State. <i>Journal of Neuroscience</i> , 2009, 29, 2915-2925.	3.6	91
32	Sparse but Selective and Potent Synaptic Transmission From the Globus Pallidus to the Subthalamic Nucleus. <i>Journal of Neurophysiology</i> , 2009, 102, 532-545.	1.8	90
33	Equilibrium Potential of GABA _A Current and Implications for Rebound Burst Firing in Rat Subthalamic Neurons <i>In Vitro</i> . <i>Journal of Neurophysiology</i> , 2000, 83, 3169-3172.	1.8	88
34	Relationships between the Firing of Identified Striatal Interneurons and Spontaneous and Driven Cortical Activities <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2012, 32, 13221-13236.	3.6	85
35	Effective connectivity of the subthalamic nucleus—globus pallidus network during Parkinsonian oscillations. <i>Journal of Physiology</i> , 2014, 592, 1429-1455.	2.9	84
36	Directional analysis of coherent oscillatory field potentials in the cerebral cortex and basal ganglia of the rat. <i>Journal of Physiology</i> , 2005, 562, 951-963.	2.9	79

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37	Changes in Functional Connectivity within the Rat Striatopallidal Axis during Global Brain Activation In Vivo. <i>Journal of Neuroscience</i> , 2006, 26, 6318-6329.	3.6	68
38	Transcription factors FOXA1 and FOXA2 maintain dopaminergic neuronal properties and control feeding behavior in adult mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4929-38.	7.1	66
39	Propagation of beta/gamma rhythms in the cortico-basal ganglia circuits of the parkinsonian rat. <i>Journal of Neurophysiology</i> , 2018, 119, 1608-1628.	1.8	62
40	<i>LRRK2</i> BAC transgenic rats develop progressive, L-DOPA-responsive motor impairment, and deficits in dopamine circuit function. <i>Human Molecular Genetics</i> , 2016, 25, 951-963.	2.9	58
41	Effects of dopamine depletion on information flow between the subthalamic nucleus and external globus pallidus. <i>Journal of Neurophysiology</i> , 2011, 106, 2012-2023.	1.8	49
42	Temporal Coupling with Cortex Distinguishes Spontaneous Neuronal Activities in Identified Basal Ganglia-Recipient and Cerebellar-Recipient Zones of the Motor Thalamus. <i>Cerebral Cortex</i> , 2014, 24, 81-97.	2.9	49
43	Effects of Dopamine Depletion on Network Entropy in the External Globus Pallidus. <i>Journal of Neurophysiology</i> , 2009, 102, 1092-1102.	1.8	46
44	Large Intercalated Neurons of Amygdala Relay Noxious Sensory Information. <i>Journal of Neuroscience</i> , 2015, 35, 2044-2057.	3.6	44
45	Tsc1-mTORC1 signaling controls striatal dopamine release and cognitive flexibility. <i>Nature Communications</i> , 2019, 10, 5426.	12.8	44
46	Secretagogin expression delineates functionally-specialized populations of striatal parvalbumin-containing interneurons. <i>ELife</i> , 2016, 5, .	6.0	43
47	Oscillations in the Basal Ganglia: The good, the bad, and the unexpected. , 2005, , 1-24.		37
48	Increased electrical and metabolic activity in the dorsal raphe nucleus of Parkinsonian rats. <i>Brain Research</i> , 2008, 1221, 93-97.	2.2	32
49	GABA uptake transporters support dopamine release in dorsal striatum with maladaptive downregulation in a parkinsonism model. <i>Nature Communications</i> , 2020, 11, 4958.	12.8	31
50	Properties of Neurons in External Globus Pallidus Can Support Optimal Action Selection. <i>PLoS Computational Biology</i> , 2016, 12, e1005004.	3.2	30
51	Delayed synchronization of activity in cortex and subthalamic nucleus following cortical stimulation in the rat. <i>Journal of Physiology</i> , 2006, 574, 929-946.	2.9	26
52	Thalamocortical dynamics underlying spontaneous transitions in beta power in Parkinsonism. <i>NeuroImage</i> , 2019, 193, 103-114.	4.2	21
53	Stereological and ultrastructural quantification of the afferent synaptome of individual neurons. <i>Brain Structure and Function</i> , 2014, 219, 631-640.	2.3	12
54	Structural and molecular heterogeneity of calretinin-expressing interneurons in the rodent and primate striatum. <i>Journal of Comparative Neurology</i> , 2018, 526, 877-898.	1.6	12

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55	Stimulating at the right time to recover network states in a model of the cortico-basal ganglia-thalamic circuit. PLoS Computational Biology, 2022, 18, e1009887.	3.2	12
56	Input Zone-Selective Dysrhythmia in Motor Thalamus after Dopamine Depletion. Journal of Neuroscience, 2021, 41, 10382-10404.	3.6	7
57	The Pedunculopontine Nucleus. , 2005, , 533-544.		4
58	The Functional Organisation of the Basal Ganglia: New Insights from Anatomical and Physiological Analyses. Advances in Behavioral Biology, 2002, , 371-378.	0.2	4