

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
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69
all docs

69
docs citations

69
times ranked

7585
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Input Zone-Selective Dysrhythmia in Motor Thalamus after Dopamine Depletion. Journal of Neuroscience, 2021, 41, 10382-10404.	3.6	7
3	GABA uptake transporters support dopamine release in dorsal striatum with maladaptive downregulation in a parkinsonism model. Nature Communications, 2020, 11, 4958.	12.8	31
4	Temporal evolution of beta bursts in the parkinsonian cortical and basal ganglia network. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16095-16104.	7.1	98
5	Thalamocortical dynamics underlying spontaneous transitions in beta power in Parkinsonism. NeuroImage, 2019, 193, 103-114.	4.2	21
6	A Hippocampus-Accumbens Tripartite Neuronal Motif Guides Appetitive Memory in Space. Cell, 2019, 176, 1393-1406.e16.	28.9	109
7	Tsc1-mTORC1 signaling controls striatal dopamine release and cognitive flexibility. Nature Communications, 2019, 10, 5426.	12.8	44
8	Structural and molecular heterogeneity of calretinin-expressing interneurons in the rodent and primate striatum. Journal of Comparative Neurology, 2018, 526, 877-898.	1.6	12
9	Propagation of beta/gamma rhythms in the cortico-basal ganglia circuits of the parkinsonian rat. Journal of Neurophysiology, 2018, 119, 1608-1628.	1.8	62
10	A Population of Indirect Pathway Striatal Projection Neurons Is Selectively Entrained to Parkinsonian Beta Oscillations. Journal of Neuroscience, 2017, 37, 9977-9998.	3.6	98
11	Action initiation shapes mesolimbic dopamine encoding of future rewards. Nature Neuroscience, 2016, 19, 34-36.	14.8	177
12	Representation of spontaneous movement by dopaminergic neurons is cell-type selective and disrupted in parkinsonism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2180-8.	7.1	145
13	LRRK2-BAC transgenic rats develop progressive, L-DOPA-responsive motor impairment, and deficits in dopamine circuit function. Human Molecular Genetics, 2016, 25, 951-963.	2.9	58
14	Properties of Neurons in External Globus Pallidus Can Support Optimal Action Selection. PLoS Computational Biology, 2016, 12, e1005004.	3.2	30
15	Secretagogin expression delineates functionally-specialized populations of striatal parvalbumin-containing interneurons. eLife, 2016, 5, .	6.0	43
16	Large Intercalated Neurons of Amygdala Relay Noxious Sensory Information. Journal of Neuroscience, 2015, 35, 2044-2057.	3.6	44
17	Distinct Developmental Origins Manifest in the Specialized Encoding of Movement by Adult Neurons of the External Globus Pallidus. Neuron, 2015, 86, 501-513.	8.1	127
18	Transcription factors FOXA1 and FOXA2 maintain dopaminergic neuronal properties and control feeding behavior in adult mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4929-38.	7.1	66

#	ARTICLE	IF	CITATIONS
19	Prototypic and Arkypallidal Neurons in the Dopamine-Intact External Globus Pallidus. <i>Journal of Neuroscience</i> , 2015, 35, 6667-6688.	3.6	200
20	Effective connectivity of the subthalamic nucleusâ€“globus pallidus network during Parkinsonian oscillations. <i>Journal of Physiology</i> , 2014, 592, 1429-1455.	2.9	84
21	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
22	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
23	Stereological and ultrastructural quantification of the afferent synaptome of individual neurons. <i>Brain Structure and Function</i> , 2014, 219, 631-640.	2.3	12
24	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
25	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
26	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
27	Cell-Type-Specific Recruitment of Amygdala Interneurons to Hippocampal Theta Rhythm and Noxious Stimuli InÂVivo. <i>Neuron</i> , 2012, 74, 1059-1074.	8.1	145
28	Dichotomous Organization of the External Globus Pallidus. <i>Neuron</i> , 2012, 74, 1075-1086.	8.1	367
29	Structural correlates of heterogeneous in vivo activity of midbrain dopaminergic neurons. <i>Nature Neuroscience</i> , 2012, 15, 613-619.	14.8	125
30	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
31	Alterations in Brain Connectivity Underlying Beta Oscillations in Parkinsonism. <i>PLoS Computational Biology</i> , 2011, 7, e1002124.	3.2	160
32	Effects of Dopamine Depletion on Network Entropy in the External Globus Pallidus. <i>Journal of Neurophysiology</i> , 2009, 102, 1092-1102.	1.8	46
33	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
34	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
35	Cholinergic brainstem neurons modulate cortical gamma activity during slow oscillations. <i>Journal of Physiology</i> , 2008, 586, 2947-2960.	2.9	175
36	Increased electrical and metabolic activity in the dorsal raphe nucleus of Parkinsonian rats. <i>Brain Research</i> , 2008, 1221, 93-97.	2.2	32

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37	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
38	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
39	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
40	A Single-Cell Analysis of Intrinsic Connectivity in the Rat Globus Pallidus. <i>Journal of Neuroscience</i> , 2007, 27, 6352-6362.	3.6	121
41	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
42	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
43	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
44	Dopamine depletion increases the power and coherence of β -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
45	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
46	Oscillations in the Basal Ganglia: The good, the bad, and the unexpected. , 2005, , 1-24.		37
47	The Pedunclopontine Nucleus. , 2005, , 533-544.		4
48	Spike timing of dendrite-targeting bistratified cells during hippocampal network oscillations in vivo. <i>Nature Neuroscience</i> , 2004, 7, 41-47.	14.8	339
49	Pedunclopontine nucleus and basal ganglia: distant relatives or part of the same family?. <i>Trends in Neurosciences</i> , 2004, 27, 585-588.	8.6	304
50	Uniform Inhibition of Dopamine Neurons in the Ventral Tegmental Area by Aversive Stimuli. <i>Science</i> , 2004, 303, 2040-2042.	12.6	723
51	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
52	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
53	Brain-state- and cell-type-specific firing of hippocampal interneurons in vivo. <i>Nature</i> , 2003, 421, 844-848.	27.8	1,187
54	Oscillatory Local Field Potentials Recorded from the Subthalamic Nucleus of the Alert Rat. <i>Experimental Neurology</i> , 2002, 177, 581-585.	4.1	101

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55	Move to the rhythm: oscillations in the subthalamic nucleusâ€“external globus pallidus network. Trends in Neurosciences, 2002, 25, 525-531.	8.6	579
56	The Functional Organisation of the Basal Ganglia: New Insights from Anatomical and Physiological Analyses. Advances in Behavioral Biology, 2002, , 371-378.	0.2	4
57	Relationship of Activity in the Subthalamic Nucleusâ€“Globus Pallidus Network to Cortical Electroencephalogram. Journal of Neuroscience, 2000, 20, 820-833.	3.6	293
58	Equilibrium Potential of GABA _A Current and Implications for Rebound Burst Firing in Rat Subthalamic Neurons In Vitro. Journal of Neurophysiology, 2000, 83, 3169-3172.	1.8	88