Patrick M Fuller

List of Publications by Year
in descending order

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80 papers	7,758 citations	76326 40 h-index	76900 74 g-index
90 all docs	90 docs citations	90 times ranked	7930 citing authors

#	Article	IF	Citations
1	Sleep State Switching. Neuron, 2010, 68, 1023-1042.	8.1	1,141
2	The sleep-wake cycle regulates brain interstitial fluid tau in mice and CSF tau in humans. Science, 2019, 363, 880-884.	12.6	460
3	Neurobiology of the Sleep-Wake Cycle: Sleep Architecture, Circadian Regulation, and Regulatory Feedback. Journal of Biological Rhythms, 2006, 21, 482-493.	2.6	432
4	Reassessment of the structural basis of the ascending arousal system. Journal of Comparative Neurology, 2011, 519, 933-956.	1.6	427
5	Wakeâ€“sleep circuitry: an overview. Current Opinion in Neurobiology, 2017, 44, 186-192.	4.2	299
6	The GABAergic parafacial zone is a medullary slow wave sleepâ€“promoting center. Nature Neuroscience, 2014, 17, 1217-1224.	14.8	245
7	Differential Rescue of Light- and Food-Entrainable Circadian Rhythms. Science, 2008, 320, 1074-1077.	12.6	239
8	Basal forebrain control of wakefulness and cortical rhythms. Nature Communications, 2015, 6, 8744.	12.8	223
9	The Biology of REM Sleep. Current Biology, 2017, 27, R1237-R1248.	3.9	212
10	Medial Amygdalar Aromatase Neurons Regulate Aggression in Both Sexes. Cell Reports, 2015, 10, 453-462.	6.4	206
11	Glutamatergic Signaling from the Parabrachial Nucleus Plays a Critical Role in Hypercapnic Arousal. Journal of Neuroscience, 2013, 33, 7627-7640.	3.6	195
12	GABAergic RIP-Cre Neurons in the Arcuate Nucleus Selectively Regulate Energy Expenditure. Cell, 2012, 151, 645-657.	28.9	193
13	The pontine REM switch: past and present. Journal of Physiology, 2007, 584, 735-741.	2.9	188
14	MC4R-expressing glutamatergic neurons in the paraventricular hypothalamus regulate feeding and are synaptically connected to the parabrachial nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13193-13198.	7.1	178
15	Basal ganglia control of sleepâ€“wake behavior and cortical activation. European Journal of Neuroscience, 2010, 31, 499-507.	2.6	174
16	Cholinergic, Glutamatergic, and GABAergic Neurons of the Pedunculopontine Tegmental Nucleus Have Distinct Effects on Sleep/Wake Behavior in Mice. Journal of Neuroscience, 2017, 37, 1352-1366.	3.6	156
17	A Novel Population of Wake-Promoting GABAergic Neurons in the Ventral Lateral Hypothalamus. Current Biology, 2016, 26, 2137-2143.	3.9	154
18	Locus Ceruleus and Anterior Cingulate Cortex Sustain Wakefulness in a Novel Environment. Journal of Neuroscience, 2010, 30, 14543-14551.	3.6	141

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19	Supramammillary glutamate neurons are a key node of the arousal system. Nature Communications, 2017, 8, 1405.	12.8	131
20	Brainstem and Spinal Cord Circuitry Regulating REM Sleep and Muscle Atonia. PLoS ONE, 2011, 6, e24998.	2.5	127
21	A hypothalamic circuit for the circadian control of aggression. Nature Neuroscience, 2018, 21, 717-724.	14.8	124
22	A Genetically Defined Circuit for Arousal from Sleep during Hypercapnia. Neuron, 2017, 96, 1153-1167.e5.	8.1	116
23	AVP neurons in the paraventricular nucleus of the hypothalamus regulate feeding. Molecular Metabolism, 2014, 3, 209-215.	6.5	108
24	Nonlinear partial differential equations and applications: Neurovestibular modulation of circadian and homeostatic regulation: Vestibulohypothalamic connection?. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15723-15728.	7.1	105
25	Identification and Characterization of a Sleep-Active Cell Group in the Rostral Medullary Brainstem. Journal of Neuroscience, 2012, 32, 17970-17976.	3.6	102
26	To eat or to sleep: That is a lateral hypothalamic question. Neuropharmacology, 2019, 154, 34-49.	4.1	101
27	Medullary Circuitry Regulating Rapid Eye Movement Sleep and Motor Atonia. Journal of Neuroscience, 2009, 29, 9361-9369.	3.6	96
28	Role of the Medial Prefrontal Cortex in Cataplexy. Journal of Neuroscience, 2013, 33, 9743-9751.	3.6	93
29	Stimulation of the Pontine Parabrachial Nucleus Promotes Wakefulness via Extra-thalamic Forebrain Circuit Nodes. Current Biology, 2016, 26, 2301-2312.	3.9	77
30	Suprachiasmatic VIP neurons are required for normal circadian rhythmicity and comprised of molecularly distinct subpopulations. Nature Communications, 2020, 11, 4410.	12.8	72
31	Anatomical Location of the Mesencephalic Locomotor Region and Its Possible Role in Locomotion, Posture, Cataplexy, and Parkinsonism. Frontiers in Neurology, 2015, 6, 140.	2.4	69
32	Targeted genetic manipulations of neuronal subtypes using promoter-specific combinatorial AAVs in wild-type animals. Frontiers in Behavioral Neuroscience, 2015, 9, 152.	2.0	68
33	Identification of a direct <scp>GABA</scp>ergic pallidocortical pathway in rodents. European Journal of Neuroscience, 2015, 41, 748-759.	2.6	66
34	Opioidergic projections to sleep-active neurons in the ventrolateral preoptic nucleus. Brain Research, 2008, 1245, 96-107.	2.2	65
35	The anatomical, cellular and synaptic basis of motor atonia during rapid eye movement sleep. Journal of Physiology, 2016, 594, 5391-5414.	2.9	63
36	Insulin-independent pathways mediating glucose uptake in hindlimb-suspended skeletal muscle. Journal of Applied Physiology, 2005, 99, 2181-2188.	2.5	62

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37	An Inhibitory Lateral Hypothalamic-Preoptic Circuit Mediates Rapid Arousals from Sleep. Current Biology, 2019, 29, 4155-4168.e5.	3.9	51
38	Metabolic Effects of Chronic Sleep Restriction in Rats. Sleep, 2012, 35, 1511-1520.	1.1	49
39	Neuroscience: A Distributed Neural Network Controls REM Sleep. Current Biology, 2016, 26, R34-R35.	3.9	47
40	Carbon Monoxide: from Poison to Clinical Trials. Trends in Pharmacological Sciences, 2021, 42, 329-339.	8.7	46
41	Neurotensin Receptor-1 Identifies a Subset of Ventral Tegmental Dopamine Neurons that Coordinates Energy Balance. Cell Reports, 2017, 20, 1881-1892.	6.4	45
42	Carbon Monoxide Preserves Circadian Rhythm to Reduce the Severity of Subarachnoid Hemorrhage in Mice. Stroke, 2017, 48, 2565-2573.	2.0	41
43	A Glutamatergic Hypothalamomedullary Circuit Mediates Thermogenesis, but Not Heat Conservation, during Stress-Induced Hyperthermia. Current Biology, 2018, 28, 2291-2301.e5.	3.9	39
44	Role of serotonergic dorsal raphe neurons in hypercapnia-induced arousals. Nature Communications, 2020, 11, 2769.	12.8	38
45	Brainstem regulation of slow-wave-sleep. Current Opinion in Neurobiology, 2017, 44, 139-143.	4.2	36
46	Brainstem Circuitry Regulating Phasic Activation of Trigeminal Motoneurons during REM Sleep. PLoS ONE, 2010, 5, e8788.	2.5	36
47	Reassessing the Role of Histaminergic Tuberomammillary Neurons in Arousal Control. Journal of Neuroscience, 2019, 39, 8929-8939.	3.6	32
48	Genetic Activation, Inactivation, and Deletion Reveal a Limited And Nuanced Role for Somatostatin-Containing Basal Forebrain Neurons in Behavioral State Control. Journal of Neuroscience, 2018, 38, 5168-5181.	3.6	30
49	Toll Mediated Infection Response Is Altered by Gravity and Spaceflight in Drosophila. PLoS ONE, 2014, 9, e86485.	2.5	29
50	Genetic Evidence for a Neurovestibular Influence on the Mammalian Circadian Pacemaker. Journal of Biological Rhythms, 2006, 21, 177-184.	2.6	28
51	Impaired Circadian Photosensitivity in Mice Lacking Glutamate Transmission from Retinal Melanopsin Cells. Journal of Biological Rhythms, 2015, 30, 35-41.	2.6	28
52	Ventral medullary control of rapid eye movement sleep and atonia. Experimental Neurology, 2017, 290, 53-62.	4.1	23
53	Selective activation of serotoninergic dorsal raphe neurons facilitates sleep through anxiolysis. Sleep, 2020, 43, .	1.1	22
54	Immunotoxinâ€induced ablation of melanopsin retinal ganglion cells in a nonâ€murine mammalian model. Journal of Comparative Neurology, 2009, 516, 125-140.	1.6	21

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55	Lateral Hypothalamic Area Neurotensin Neurons Are Required for Control of Orexin Neurons and Energy Balance. Endocrinology, 2018, 159, 3158-3176.	2.8	20
56	Parallel and divergent adaptations of rat soleus and plantaris to chronic exercise and hypergravity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R442-R448.	1.8	19
57	Targeted disruption of supraspinal motor circuitry reveals a distributed network underlying Restless Legs Syndrome (RLS)-like movements in the rat. Scientific Reports, 2017, 7, 9905.	3.3	17
58	Activation of the GABAergic Parafacial Zone Maintains Sleep and Counteracts the Wake-Promoting Action of the Psychostimulants Armodafinil and Caffeine. Neuropsychopharmacology, 2018, 43, 415-425.	5.4	16
59	Acute inhibition of a cortical motor area impairs vocal control in singing zebra finches. European Journal of Neuroscience, 2015, 41, 97-108.	2.6	14
60	Hippocampal corticotropin-releasing hormone neurons support recognition memory and modulate hippocampal excitability. PLoS ONE, 2018, 13, e0191363.	2.5	14
61	The Sleep-Promoting Ventrolateral Preoptic Nucleus: What Have We Learned over the Past 25 Years?. International Journal of Molecular Sciences, 2022, 23, 2905.	4.1	14
62	Catecholaminergic A1/C1 neurons contribute to the maintenance of upper airway muscle tone but may not participate in NREM sleep-related depression of these muscles. Respiratory Physiology and Neurobiology, 2017, 244, 41-50.	1.6	13
63	Armodafinil-induced wakefulness in animals with ventrolateral preoptic lesions. Nature and Science of Sleep, 2014, 6, 57.	2.7	10
64	Standards of evidence in chronobiology: A response. Journal of Circadian Rhythms, 2014, 7, 9.	1.3	10
65	How genetically engineered systems are helping to define, and in some cases redefine, the neurobiological basis of sleep and wake. Temperature, 2015, 2, 406-417.	3.0	10
66	Hypothalamic Pomc Neurons Innervate the Spinal Cord and Modulate the Excitability of Premotor Circuits. Current Biology, 2020, 30, 4579-4593.e7.	3.9	6
67	Study protocol for a randomised controlled trial evaluating the effects of the orexin receptor antagonist suvorexant on sleep architecture and delirium in the intensive care unit. BMJ Open, 2020, 10, e038474.	1.9	6
68	Depleting hypothalamic somatostatinergic neurons recapitulates diabetic phenotypes in mouse brain, bone marrow, adipose and retina. Diabetologia, 2021, 64, 2575-2588.	6.3	5
69	The Role of the Central Histaminergic System in Behavioral State Control. Current Topics in Behavioral Neurosciences, 2021, , 447-468.	1.7	3
70	The Circuit, Cellular, and Synaptic Bases of Sleep-Wake Regulation. Handbook of Behavioral Neuroscience, 2019, , 65-88.	0.7	2
71	Addicted to dreaming. Science, 2022, 375, 972-973.	12.6	2
72	An Overview of Sleep. , 2012, , 43-61.		1

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73	Inducible clocks: Food entrainment of circadian rhythms. Autonomic Neuroscience: Basic and Clinical, 2007, 135, 18-19.	2.8	0
74	Genetic dissection of neural circuitry regulating behavioral state using conditional transgenics. Sleep and Biological Rhythms, 2011, 9, 78-83.	1.0	0
75	0141 Ascending Projections From Parafacial Zone To The Medial Parabrachial Neurons. Sleep, 2019, 42, A58-A58.	1.1	0
76	026 Vasoactive Intestinal Polypeptide Directly Excites Neurons of the Subparaventricular Zone. Sleep, 2021, 44, A12-A12.	1.1	0
77	074 Basal Forebrain GABAergic Neurons Promote Arousal by Disinhibiting the Orexin Neurons via Local GABAergic Interneurons. Sleep, 2021, 44, A31-A31.	1.1	0
78	Hepatic proteome analysis in mice following 90 days of spaceflight. FASEB Journal, 2013, 27, lb745.	0.5	0
79	â€˜Identifying Brain Networks Controlling Micturition and Continence in Mouseâ€™. FASEB Journal, 2018, 32, 734.3.	0.5	0
80	An overview of sleepâ€“wake circuitry. , 2018, , .		0