James T Mckenna

List of Publications by Year
in descending order

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61 papers	3,464 citations	236925 25 h-index	223800 46 g-index
67 all docs	67 docs citations	67 times ranked	4026 citing authors

#	Article	IF	Citations
1	Knockdown of GABAA alpha3 subunits on thalamic reticular neurons enhances deep sleep in mice. Nature Communications, 2022, 13, 2246.	12.8	14
2	Optogenetic manipulation of an ascending arousal system tunes cortical broadband gamma power and reveals functional deficits relevant to schizophrenia. Molecular Psychiatry, 2021, 26, 3461-3475.	7.9	26
3	Characterization of basal forebrain glutamate neurons suggests a role in control of arousal and avoidance behavior. Brain Structure and Function, 2021, 226, 1755-1778.	2.3	10
4	The Dual Orexin Receptor Antagonist DORA-22 Improves Mild Stress-induced Sleep Disruption During the Natural Sleep Phase of Nocturnal Rats. Neuroscience, 2021, 463, 30-44.	2.3	3
5	The dual orexinergic receptor antagonist DORA-22 improves the sleep disruption and memory impairment produced by a rodent insomnia model. Sleep, 2020, 43, .	1.1	11
6	Basal Forebrain Parvalbumin Neurons Mediate Arousals from Sleep Induced by Hypercarbia or Auditory Stimuli. Current Biology, 2020, 30, 2379-2385.e4.	3.9	35
7	Somatostatin+/nNOS+ neurons are involved in delta electroencephalogram activity and cortical-dependent recognition memory. Sleep, 2019, 42, .	1.1	17
8	0093 Orexin Receptor Antagonism Improves Stress-related Insomnia, â€œNext Dayâ€•Hypersomnia, And Sleep Dependent Memory Consolidation In The Rat. Sleep, 2019, 42, A38-A38.	1.1	0
9	Thalamic Reticular Nucleus Parvalbumin Neurons Regulate Sleep Spindles and Electrophysiological Aspects of Schizophrenia in Mice. Scientific Reports, 2019, 9, 3607.	3.3	46
10	Optogenetic stimulation of basal forebrain parvalbumin neurons modulates the cortical topography of auditory steady-state responses. Brain Structure and Function, 2019, 224, 1505-1518.	2.3	22
11	Validation of an automated sleep spindle detection method for mouse electroencephalography. Sleep, 2019, 42, .	1.1	40
12	A rodent cage change insomnia model disrupts memory consolidation. Journal of Sleep Research, 2019, 28, e12792.	3.2	13
13	0028 GABAA Receptors Of The Thalamic Reticular Nucleus Regulate Sleep Spindles: An In Vivo Investigation By CRISPR-cas9 Genetic Abscission. Sleep, 2018, 41, A12-A12.	1.1	0
14	0094 Hypnotic Effectiveness Of The Dual Orexin Receptor Antagonist DORA-22, Evaluated With A Rodent Cage-Change Model Of Insomnia. Sleep, 2018, 41, A38-A38.	1.1	0
15	Activation of basal forebrain purinergic P2 receptors promotes wakefulness in mice. Scientific Reports, 2018, 8, 10730.	3.3	8
16	Partnerships in Neuroscience Research Between Small Colleges and Large Institutions: A Case Study. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2018, 16, A159-A167.	0.0	0
17	Intrinsic membrane properties and cholinergic modulation of mouse basal forebrain glutamatergic neurons in vitro. Neuroscience, 2017, 352, 249-261.	2.3	10
18	Neurobiology of REM Sleep, NREM Sleep Homeostasis, and Gamma Band Oscillations. , 2017, , 55-77.		7

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19	0021 SLEEP DEPRIVATION ACTIVATES NLRP3 INFLAMMASOMES IN NEURONS AND GLIA. Sleep, 2017, 40, A8-A8.	1.1	2
20	0129 LOCAL THALAMIC RETICULAR NUCLEUS INHIBITION OF T-TYPE CALCIUM CHANNELS REDUCES SLEEP SPINDLES IN MICE. Sleep, 2017, 40, A48-A48.	1.1	0
21	0043 INVESTIGATION OF THE DEVELOPMENTAL ORIGIN OF FOREBRAIN GABAERGIC NEURONS INVOLVED IN SLEEP-WAKE CONTROL USING AÂFATE-MAPPING APPROACH. Sleep, 2017, 40, A17-A17.	1.1	2
22	0098 BASAL FOREBRAIN PARVALBUMIN NEURONS CONTROL THALAMIC RETICULAR NEURONS: AN OPTOGENETIC STUDY INVESTIGATING SPINDLES AND NREM SLEEP REGULATION. Sleep, 2017, 40, A37-A37.	1.1	0
23	0099 INFUSION OF AÂPURINERGIC P2 RECEPTOR AGONIST INTO THE BASAL FOREBRAIN BY REVERSE MICRODIALYSIS ATTENUATES HOMEOSTATIC SLEEP REBOUND. Sleep, 2017, 40, A37-A37.	1.1	0
24	0254 INSOMNIA-RELATED SLEEP DISRUPTION IMPAIRS SLEEP-DEPENDENT MEMORY CONSOLIDATION IN THE RAT. Sleep, 2017, 40, A93-A93.	1.1	0
25	Introduction to basic science. , 2017, , .		0
26	Functions and Mechanisms of Sleep. AIMS Neuroscience, 2016, 3, 67-104.	2.3	153
27	Cholinergic Neurons in the Basal Forebrain Promote Wakefulness by Actions on Neighboring Non-Cholinergic Neurons: An Opto-Dialysis Study. Journal of Neuroscience, 2016, 36, 2057-2067.	3.6	106
28	Turning a Negative into a Positive: Ascending GABAergic Control of Cortical Activation and Arousal. Frontiers in Neurology, 2015, 6, 135.	2.4	82
29	Cortically projecting basal forebrain parvalbumin neurons regulate cortical gamma band oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3535-3540.	7.1	246
30	Cholinergic Neurons Excite Cortically Projecting Basal Forebrain GABAergic Neurons. Journal of Neuroscience, 2014, 34, 2832-2844.	3.6	80
31	Aberrant cortical neuroplasticity in the <scp>OSA</scp> patient (Commentary on Opie et al.). European Journal of Neuroscience, 2013, 37, 1843-1843.	2.6	0
32	Distribution and intrinsic membrane properties of basal forebrain GABAergic and parvalbumin neurons in the mouse. Journal of Comparative Neurology, 2013, 521, 1225-1250.	1.6	79
33	Knockdown of orexin type 2 receptor in the lateral pontomesencephalic tegmentum of rats increases <scp>REM</scp> sleep. European Journal of Neuroscience, 2013, 37, 957-963.	2.6	11
34	Neurochemistry of wakefulness and sleep. , 2012, , 23-42.		2
35	Control of Sleep and Wakefulness. Physiological Reviews, 2012, 92, 1087-1187.	28.8	1,089
36	Chronic ramelteon treatment in a mouse model of Alzheimer's disease. Archives Italiennes De Biologie, 2012, 150, 5-14.	0.4	15

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37	Complex receptor mediation of acute ketamine application on in vitro gamma oscillations in mouse prefrontal cortex: modeling gamma band oscillation abnormalities in schizophrenia. Neuroscience, 2011, 199, 51-63.	2.3	57
38	GAD67-GFP knock-in mice have normal sleepâ€“wake patterns and sleep homeostasis. NeuroReport, 2010, 21, 216-220.	1.2	15
39	Knockdown of orexin type 1 receptor in rat locus coeruleus increases REM sleep during the dark period. European Journal of Neuroscience, 2010, 32, 1528-1536.	2.6	44
40	Sleep fragmentation reduces hippocampal CA1 pyramidal cell excitability and response to adenosine. Neuroscience Letters, 2010, 469, 1-5.	2.1	35
41	One week of exposure to intermittent hypoxia impairs attentional set-shifting in rats. Behavioural Brain Research, 2010, 210, 123-126.	2.2	25
42	Pharmacology of Sleep: Adenosine. , 2009, , 601-610.		5
43	c-Fos protein expression is increased in cholinergic neurons of the rodent basal forebrain during spontaneous and induced wakefulness. Brain Research Bulletin, 2009, 80, 382-388.	3.0	22
44	Spatial learning and memory deficits following exposure to 24Âh of sleep fragmentation or intermittent hypoxia in a rat model of obstructive sleep apnea. Brain Research, 2009, 1294, 128-137.	2.2	62
45	Animal Models of Narcolepsy. CNS and Neurological Disorders - Drug Targets, 2009, 8, 296-308.	1.4	28
46	Characterization of GABAergic neurons in rapidâ€eyeâ€movement sleep controlling regions of the brainstem reticular formation in GAD67â€“green fluorescent protein knockâ€in mice. European Journal of Neuroscience, 2008, 27, 352-363.	2.6	81
47	Assessing sleepiness in the rat: a multiple sleep latencies test compared to polysomnographic measures of sleepiness. Journal of Sleep Research, 2008, 17, 365-375.	3.2	23
48	24â€ƒhours of sleep deprivation in the rat increases sleepiness and decreases vigilance: introduction of the ratâ€psychomotor vigilance task. Journal of Sleep Research, 2008, 17, 376-384.	3.2	54
49	Microdialysis Elevation of Adenosine in the Basal Forebrain Produces Vigilance Impairments in the Rat Psychomotor Vigilance Task. Sleep, 2008, , .	1.1	14
50	Microdialysis elevation of adenosine in the basal forebrain produces vigilance impairments in the rat psychomotor vigilance task. Sleep, 2008, 31, 1393-8.	1.1	33
51	Sleep fragmentation elevates behavioral, electrographic and neurochemical measures of sleepiness. Neuroscience, 2007, 146, 1462-1473.	2.3	103
52	Experimental Sleep Fragmentation Impairs Attentional Set-Shifting in Rats. Sleep, 2007, 30, 52-60.	1.1	70
53	Differential effect of orexins (hypocretins) on serotonin release in the dorsal and median raphe nuclei of freely behaving rats. Neuroscience, 2006, 141, 1101-1105.	2.3	67
54	Another Chapter in the Adenosine Story. Sleep, 2006, 29, 426-428.	1.1	31

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55	Hippocampal synaptic plasticity and spatial learning are impaired in a rat model of sleep fragmentation. European Journal of Neuroscience, 2006, 23, 2739-2748.	2.6	185
56	Effects on serotonin of (â˜')nicotine and dimethylphenylpiperazinium in the dorsal raphe and nucleus accumbens of freely behaving rats. Neuroscience, 2005, 135, 949-958.	2.3	25
57	Afferent projections to nucleus reuniens of the thalamus. Journal of Comparative Neurology, 2004, 480, 115-142.	1.6	211
58	Collateral projections from the median raphe nucleus to the medial septum and hippocampus. Brain Research Bulletin, 2001, 54, 619-630.	3.0	63
59	Collateral projections from the supramammillary nucleus to the medial septum and hippocampus. Synapse, 2000, 38, 281-293.	1.2	79
60	Neuronal models of REM-sleep control: evolving concepts. , 0, , 285-300.		0
61	Neuroanatomy and neurobiology of sleep and wakefulness. , 0, , 13-35.		2