

# Mahesh M Thakkar

## List of Publications by Year in descending order

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75  
papers

5,609  
citations

117625

34  
h-index

91884

69  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4008  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adenosine: A Mediator of the Sleep-Inducing Effects of Prolonged Wakefulness. <i>Science</i> , 1997, 276, 1265-1268.	12.6	1,120
2	Adenosine and sleep-wake regulation. <i>Progress in Neurobiology</i> , 2004, 73, 379-396.	5.7	515
3	Adenosinergic modulation of basal forebrain and preoptic/anterior hypothalamic neuronal activity in the control of behavioral state. <i>Behavioural Brain Research</i> , 2000, 115, 183-204.	2.2	335
4	Role of adenosine in behavioral state modulation: a microdialysis study in the freely moving cat. <i>Neuroscience</i> , 1997, 79, 225-235.	2.3	280
5	Microdialysis perfusion of 8-hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT) in the dorsal raphe nucleus decreases serotonin release and increases rapid eye movement sleep in the freely moving cat. <i>Journal of Neuroscience</i> , 1996, 16, 2820-2828.	3.6	258
6	Behavioral State Control through Differential Serotonergic Inhibition in the Mesopontine Cholinergic Nuclei: A Simultaneous Unit Recording and Microdialysis Study. <i>Journal of Neuroscience</i> , 1998, 18, 5490-5497.	3.6	191
7	Hippocampal synaptic plasticity and spatial learning are impaired in a rat model of sleep fragmentation. <i>European Journal of Neuroscience</i> , 2006, 23, 2739-2748.	2.6	185
8	Alcohol disrupts sleep homeostasis. <i>Alcohol</i> , 2015, 49, 299-310.	1.7	179
9	Histamine in the regulation of wakefulness. <i>Sleep Medicine Reviews</i> , 2011, 15, 65-74.	8.5	178
10	A <sub>1</sub> Receptor and Adenosinergic Homeostatic Regulation of Sleep-Wakefulness: Effects of Antisense to the A <sub>1</sub> Receptor in the Cholinergic Basal Forebrain. <i>Journal of Neuroscience</i> , 2003, 23, 4278-4287.	3.6	163
11	Chronic low-amplitude electrical stimulation of the laterodorsal tegmental nucleus of freely moving cats increases REM sleep. <i>Brain Research</i> , 1996, 723, 223-227.	2.2	161
12	Perfect timing: circadian rhythms, sleep, and immunity – an NIH workshop summary. <i>JCI Insight</i> , 2020, 5, .	5.0	136
13	Sleep fragmentation elevates behavioral, electrographic and neurochemical measures of sleepiness. <i>Neuroscience</i> , 2007, 146, 1462-1473.	2.3	103
14	Adenosine and the homeostatic control of sleep: Effects of A <sub>1</sub> receptor blockade in the perifornical lateral hypothalamus on sleep-wakefulness. <i>Neuroscience</i> , 2008, 153, 875-880.	2.3	96
15	Adenosinergic inhibition of basal forebrain wakefulness-active neurons: a simultaneous unit recording and microdialysis study in freely behaving cats. <i>Neuroscience</i> , 2003, 122, 1107-1113.	2.3	89
16	Extracellular histamine levels in the feline preoptic/anterior hypothalamic area during natural sleep-wakefulness and prolonged wakefulness: An in vivo microdialysis study. <i>Neuroscience</i> , 2002, 113, 663-670.	2.3	87
17	Characterization of GABAergic neurons in rapid-eye-movement sleep controlling regions of the brainstem reticular formation in GAD67-green fluorescent protein knock-in mice. <i>European Journal of Neuroscience</i> , 2008, 27, 352-363.	2.6	81
18	Adenosine as a Biological Signal Mediating Sleepiness following Prolonged Wakefulness. <i>NeuroSignals</i> , 2000, 9, 319-327.	0.9	74

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19	Electrophysiological characterization of neurons in the dorsolateral pontine rapid-eye-movement sleep induction zone of the rat: Intrinsic membrane properties and responses to carbachol and orexins. <i>Neuroscience</i> , 2006, 143, 739-755.	2.3	74
20	Compensatory sleep response to 12 h wakefulness in young and old rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 278, R125-R133.	1.8	70
21	Adenosine and Glutamate Signaling in Neuron-Glial Interactions: Implications in Alcoholism and Sleep Disorders. <i>Alcoholism: Clinical and Experimental Research</i> , 2012, 36, 1117-1125.	2.4	69
22	Differential effect of orexins (hypocretins) on serotonin release in the dorsal and median raphe nuclei of freely behaving rats. <i>Neuroscience</i> , 2006, 141, 1101-1105.	2.3	67
23	REM sleep changes in rats induced by siRNA-mediated orexin knockdown. <i>European Journal of Neuroscience</i> , 2006, 24, 2039-2048.	2.6	67
24	Role of adenosine and wake-promoting basal forebrain in insomnia and associated sleep disruptions caused by ethanol dependence. <i>Journal of Neurochemistry</i> , 2010, 115, 782-794.	3.9	67
25	Orexin neurons of the hypothalamus express adenosine A1 receptors. <i>Brain Research</i> , 2002, 944, 190-194.	2.2	62
26	Implication of the Purinergic System in Alcohol Use Disorders. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, 584-594.	2.4	60
27	Effect of rapid eye movement sleep deprivation on rat brain monoamine oxidases. <i>Neuroscience</i> , 1993, 55, 677-683.	2.3	54
28	Effects of Ethanol on Extracellular Levels of Adenosine in the Basal Forebrain: An In Vivo Microdialysis Study in Freely Behaving Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 813-818.	2.4	53
29	Role of Wake-Promoting Basal Forebrain and Adenosinergic Mechanisms in Sleep-Promoting Effects of Ethanol. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 997-1005.	2.4	52
30	Wakefulness-inducing effects of histamine in the basal forebrain of freely moving rats. <i>Behavioural Brain Research</i> , 2004, 152, 271-278.	2.2	48
31	Knockdown of orexin type 1 receptor in rat locus coeruleus increases REM sleep during the dark period. <i>European Journal of Neuroscience</i> , 2010, 32, 1528-1536.	2.6	44
32	PDGF-driven proliferation, migration, and IL8 chemokine secretion in human corneal fibroblasts involve JAK2-STAT3 signaling pathway. <i>Molecular Vision</i> , 2008, 14, 1020-7.	1.1	44
33	Role of Adenosine and the Orexinergic Perifornical Hypothalamus in Sleep-Promoting Effects of Ethanol. <i>Sleep</i> , 2014, 37, 525-533.	1.1	39
34	Melatonin promotes sleep in mice by inhibiting orexin neurons in the perifornical lateral hypothalamus. <i>Journal of Pineal Research</i> , 2018, 65, e12498.	7.4	37
35	Effect of REM sleep deprivation on rat brain acetylcholinesterase. <i>Pharmacology Biochemistry and Behavior</i> , 1991, 39, 211-214.	2.9	33
36	Phasic but not tonic REM-selective discharge of periaqueductal gray neurons in freely behaving animals: relevance to postulates of GABAergic inhibition of monoaminergic neurons. <i>Brain Research</i> , 2002, 945, 276-280.	2.2	27

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37	Rapid eye movement sleep deprivation decreases membrane fluidity in the rat brain. <i>Neuroscience Research</i> , 1995, 22, 117-122.	1.9	25
38	Effects on serotonin of (α <sup>2</sup> )nicotine and dimethylphenylpiperazinium in the dorsal raphe and nucleus accumbens of freely behaving rats. <i>Neuroscience</i> , 2005, 135, 949-958.	2.3	25
39	Nociceptin/orphanin FQ decreases serotonin efflux in the rat brain but in contrast to a μ-opioid has no antagonistic effect on μ-opioid-induced increases in serotonin efflux. <i>Neuroscience</i> , 2007, 147, 106-116.	2.3	25
40	Rapid Tolerance Development to the NREM Sleep Promoting Effect of Alcohol. <i>Sleep</i> , 2014, 37, 821-824.	1.1	24
41	Nicotine Administration in the Cholinergic Basal Forebrain Increases Alcohol Consumption in C57BL/6J Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 1315-1320.	2.4	23
42	Sleep-wakefulness in alcohol preferring and non-preferring rats following binge alcohol administration. <i>Neuroscience</i> , 2010, 170, 22-27.	2.3	18
43	Nicotine administration in the wake-promoting basal forebrain attenuates sleep-promoting effects of alcohol. <i>Journal of Neurochemistry</i> , 2015, 135, 323-331.	3.9	17
44	Severe and protracted sleep disruptions in mouse model of post-traumatic stress disorder. <i>Sleep</i> , 2018, 41, .	1.1	17
45	Rapid Eye Movement Sleep-Deprivation-Induced Changes in Glucose Metabolic Enzymes in Rat Brain. <i>Sleep</i> , 1993, , .	1.1	16
46	A single episode of binge alcohol drinking causes sleep disturbance, disrupts sleep homeostasis, and downregulates equilibrative nucleoside transporter 1. <i>Journal of Neurochemistry</i> , 2018, 146, 304-321.	3.9	16
47	Acute Binge Alcohol Administration Reverses Sleep-Wake Cycle in Sprague Dawley Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 1941-1946.	2.4	14
48	Short-term REM sleep deprivation increases acetylcholinesterase activity in the medulla of rats. <i>Neuroscience Letters</i> , 1991, 130, 221-224.	2.1	13
49	Effect of microdialysis perfusion of 4,5,6,7-tetrahydroisoxazolo-[5,4-c]pyridine-3-ol in the perifornical hypothalamus on sleep-wakefulness: Role of μ-subunit containing extrasynaptic GABA <sub>A</sub> receptors. <i>Neuroscience</i> , 2008, 153, 551-555.	2.3	13
50	Lesion of the basal forebrain cholinergic neurons attenuates sleepiness and adenosine after alcohol consumption. <i>Journal of Neurochemistry</i> , 2017, 142, 710-720.	3.9	13
51	Neural activation patterns underlying basolateral amygdala influence on intra-accumbens opioid-driven consummatory versus appetitive high-fat feeding behaviors in the rat. <i>Behavioral Neuroscience</i> , 2015, 129, 812-821.	1.2	13
52	Effect of REM sleep deprivation on molecular forms of acetylcholinesterase in rats. <i>NeuroReport</i> , 1992, 3, 676-678.	1.2	11
53	Short-term sleep deprivation immediately after contextual conditioning inhibits BDNF signaling and disrupts memory consolidation in predator odor trauma mice model of PTSD. <i>Brain Research</i> , 2021, 1750, 147155.	2.2	11
54	Antisense-Induced Downregulation of Clock Genes in the Shell Region of the Nucleus Accumbens Reduces Binge Drinking in Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 530-542.	2.4	9

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55	Effect of rapid eye movement sleep deprivation on 5- $\alpha$ -nucleotidase activity in the rat brain. <i>Neuroscience Letters</i> , 1996, 206, 177-180.	2.1	8
56	Nicotine Infusion in the Wake Promoting Basal Forebrain Enhances Alcohol-Induced Activation of Nucleus Accumbens. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 2590-2596.	2.4	8
57	Sleep, sleep homeostasis and arousal disturbances in alcoholism. <i>Brain Research Bulletin</i> , 2022, 182, 30-43.	3.0	7
58	Chronic alcohol exposure reduces acetylated histones in the sleep-wake regulatory brain regions to cause insomnia during withdrawal. <i>Neuropharmacology</i> , 2020, 180, 108332.	4.1	6
59	Rats exposed to chronic alcohol display protracted insomnia and daytime sleepiness-like behavior during alcohol withdrawal. <i>Physiology and Behavior</i> , 2021, 228, 113200.	2.1	5
60	Sleep Medicine: Parasomnias. <i>Missouri Medicine</i> , 2018, 115, 169-175.	0.3	5
61	Neural Mechanisms Contributing to Dysphagia in Mouse Models. <i>Otolaryngology - Head and Neck Surgery</i> , 2016, 155, 303-306.	1.9	4
62	Orexin gene expression is downregulated in alcohol dependent rats during acute alcohol withdrawal. <i>Neuroscience Letters</i> , 2020, 739, 135347.	2.1	4
63	Multi-focus Image Fusion for Confocal Microscopy Using U-Net Regression Map. , 2021, 2020, 4317-4323.		4
64	Sleep Medicine: Restless Legs Syndrome. <i>Missouri Medicine</i> , 2018, 115, 380-387.	0.3	4
65	Sleep Loss Immediately After Fear Memory Reactivation Attenuates Fear Memory Reconsolidation. <i>Neuroscience</i> , 2020, 428, 70-75.	2.3	3
66	Histamine in the control of sleep-wakefulness. , 0, , 144-178.		2
67	Alcoholism and Sleep. , 2019, , 159-192.		2
68	Hypersomnia. <i>Missouri Medicine</i> , 2018, 115, 85-91.	0.3	2
69	Antisense-induced downregulation of major circadian genes modulates the expression of histone deacetylase 2 (HDAC2) and CREB-binding protein (CBP) in the medial shell region of nucleus accumbens of mice exposed to chronic excessive alcohol consumption. <i>Journal of Neurochemistry</i> , 2021, , .	3.9	2
70	Activation of dopamine D2 receptors in the medial shell region of the nucleus accumbens increases Per1 expression to enhance alcohol consumption. <i>Addiction Biology</i> , 2022, 27, e13133.	2.6	2
71	The evolution of REM sleep. , 2001, , 197-217.		1
72	Antisense-induced knockdown of cAMP response element-binding protein downregulates <i>Per1</i> gene expression in the shell region of nucleus accumbens resulting in reduced alcohol consumption in mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 1940-1949.	2.4	1

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73	Orexin, Alcohol and Sleep Homeostasis. , 2015, , 137-164.		1
74	Adenosine and glycine in REM-sleep regulation. , 0, , 256-265.		0
75	0035 Gender Differences In Sleep Homeostasis: Chemogenetic Approach To Examine The Role Of Melanin Concentrating Hormone.. Sleep, 2019, 42, A13-A15.	1.1	0