

Takeshi Sakurai

List of Publications by Year in descending order

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99
papers

19,149
citations

44069

48
h-index

37204

96
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106
all docs

106
docs citations

106
times ranked

9504
citing authors

#	ARTICLE	IF	CITATIONS
1	Orexins and Orexin Receptors: A Family of Hypothalamic Neuropeptides and G Protein-Coupled Receptors that Regulate Feeding Behavior. <i>Cell</i> , 1998, 92, 573-585.	28.9	4,993
2	Cloning of a cDNA encoding a non-isopeptide-selective subtype of the endothelin receptor. <i>Nature</i> , 1990, 348, 732-735.	27.8	2,443
3	Genetic Ablation of Orexin Neurons in Mice Results in Narcolepsy, Hypophagia, and Obesity. <i>Neuron</i> , 2001, 30, 345-354.	8.1	1,307
4	Distribution of orexin neurons in the adult rat brain. <i>Brain Research</i> , 1999, 827, 243-260.	2.2	1,060
5	The neural circuit of orexin (hypocretin): maintaining sleep and wakefulness. <i>Nature Reviews Neuroscience</i> , 2007, 8, 171-181.	10.2	1,060
6	Hypothalamic Orexin Neurons Regulate Arousal According to Energy Balance in Mice. <i>Neuron</i> , 2003, 38, 701-713.	8.1	833
7	Input of Orexin/Hypocretin Neurons Revealed by a Genetically Encoded Tracer in Mice. <i>Neuron</i> , 2005, 46, 297-308.	8.1	430
8	Hypocretin/Orexin Excites Hypocretin Neurons via a Local Glutamate Neuron—A Potential Mechanism for Orchestrating the Hypothalamic Arousal System. <i>Neuron</i> , 2002, 36, 1169-1181.	8.1	429
9	Interaction between the Corticotropin-Releasing Factor System and Hypocretins (Orexins): A Novel Circuit Mediating Stress Response. <i>Journal of Neuroscience</i> , 2004, 24, 11439-11448.	3.6	406
10	The role of orexin in motivated behaviours. <i>Nature Reviews Neuroscience</i> , 2014, 15, 719-731.	10.2	366
11	Narcolepsy — clinical spectrum, aetiopathophysiology, diagnosis and treatment. <i>Nature Reviews Neurology</i> , 2019, 15, 519-539.	10.1	364
12	Roles of orexin/hypocretin in regulation of sleep/wakefulness and energy homeostasis. <i>Sleep Medicine Reviews</i> , 2005, 9, 231-241.	8.5	246
13	Enhanced Orexin Receptor-2 Signaling Prevents Diet-Induced Obesity and Improves Leptin Sensitivity. <i>Cell Metabolism</i> , 2009, 9, 64-76.	16.2	235
14	Differential Roles of Orexin Receptor-1 and -2 in the Regulation of Non-REM and REM Sleep. <i>Journal of Neuroscience</i> , 2011, 31, 6518-6526.	3.6	222
15	Pharmacogenetic Modulation of Orexin Neurons Alters Sleep/Wakefulness States in Mice. <i>PLoS ONE</i> , 2011, 6, e20360.	2.5	216
16	Role of orexin in modulating arousal, feeding, and motivation. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 28.	2.0	205
17	Cellular Clocks in AVP Neurons of the SCN Are Critical for Interneuronal Coupling Regulating Circadian Behavior Rhythm. <i>Neuron</i> , 2015, 85, 1103-1116.	8.1	200
18	Connectomics of orexin-producing neurons: interface of systems of emotion, energy homeostasis and arousal. <i>Trends in Pharmacological Sciences</i> , 2011, 32, 451-462.	8.7	194

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19	Serotonergic Regulation of the Orexin/Hypocretin Neurons through the 5-HT1A Receptor. <i>Journal of Neuroscience</i> , 2004, 24, 7159-7166.	3.6	184
20	Coreleased Orexin and Glutamate Evoke Nonredundant Spike Outputs and Computations in Histamine Neurons. <i>Cell Reports</i> , 2014, 7, 697-704.	6.4	160
21	A neuropeptide ligand of the G protein-coupled receptor GPR103 regulates feeding, behavioral arousal, and blood pressure in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7438-7443.	7.1	158
22	The orexin system: roles in sleep/wake regulation. <i>Annals of the New York Academy of Sciences</i> , 2010, 1200, 149-161.	3.8	156
23	A discrete neuronal circuit induces a hibernation-like state in rodents. <i>Nature</i> , 2020, 583, 109-114.	27.8	141
24	Orexin neurons suppress narcolepsy via 2 distinct efferent pathways. <i>Journal of Clinical Investigation</i> , 2014, 124, 604-616.	8.2	139
25	Selective loss of GABA _B receptors in orexin-producing neurons results in disrupted sleep/wakefulness architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4459-4464.	7.1	115
26	Orexin Neurons Are Directly and Indirectly Regulated by Catecholamines in a Complex Manner. <i>Journal of Neurophysiology</i> , 2006, 96, 284-298.	1.8	114
27	Roles of orexins in regulation of feeding and wakefulness. <i>NeuroReport</i> , 2002, 13, 987-995.	1.2	108
28	Orexin neurons are indispensable for stress-induced thermogenesis in mice. <i>Journal of Physiology</i> , 2010, 588, 4117-4129.	2.9	107
29	Nonpeptide orexin type-2 receptor agonist ameliorates narcolepsy-cataplexy symptoms in mouse models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5731-5736.	7.1	107
30	Orexin Receptor-1 in the Locus Coeruleus Plays an Important Role in Cue-Dependent Fear Memory Consolidation. <i>Journal of Neuroscience</i> , 2013, 33, 14549-14557.	3.6	106
31	Increased production of endothelin-1 in the hypertrophied rat heart due to pressure overload. <i>FEBS Letters</i> , 1993, 332, 31-34.	2.8	104
32	Orexin modulates behavioral fear expression through the locus coeruleus. <i>Nature Communications</i> , 2017, 8, 1606.	12.8	89
33	GABA _B receptor-mediated modulation of hypocretin/orexin neurons in mouse hypothalamus. <i>Journal of Physiology</i> , 2006, 574, 399-414.	2.9	87
34	Serotonin neurons in the dorsal raphe mediate the anticataplectic action of orexin neurons by reducing amygdala activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3526-E3535.	7.1	78
35	Rapid eye movement sleep is initiated by basolateral amygdala dopamine signaling in mice. <i>Science</i> , 2022, 375, 994-1000.	12.6	75
36	Comprehensive Behavioral Analysis of Male Orexin Receptor-1 Knockout Mice Showed Implication of Orexin Receptor-1 in Mood, Anxiety, and Social Behavior. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 324.	2.0	74

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37	Roles of Orexins and Orexin Receptors in Central Regulation of Feeding Behavior and Energy Homeostasis. <i>CNS and Neurological Disorders - Drug Targets</i> , 2006, 5, 313-325.	1.4	73
38	Sparse Activity of Hippocampal Adult-Born Neurons during REM Sleep Is Necessary for Memory Consolidation. <i>Neuron</i> , 2020, 107, 552-565.e10.	8.1	73
39	Large-scale forward genetics screening identifies <i>Trpa1</i> as a chemosensor for predator odor-evoked innate fear behaviors. <i>Nature Communications</i> , 2018, 9, 2041.	12.8	71
40	Orexin neurons in the hypothalamus mediate cardiorespiratory responses induced by disinhibition of the amygdala and bed nucleus of the stria terminalis. <i>Brain Research</i> , 2009, 1262, 25-37.	2.2	70
41	GABAergic neurons in the preoptic area send direct inhibitory projections to orexin neurons. <i>Frontiers in Neural Circuits</i> , 2013, 7, 192.	2.8	67
42	Manipulating the Cellular Circadian Period of Arginine Vasopressin Neurons Alters the Behavioral Circadian Period. <i>Current Biology</i> , 2016, 26, 2535-2542.	3.9	65
43	Evolution of Orexin Neuropeptide System: Structure and Function. <i>Frontiers in Neuroscience</i> , 2020, 14, 691.	2.8	63
44	Vasopressin Increases Locomotion through a V1a Receptor in Orexin/Hypocretin Neurons: Implications for Water Homeostasis. <i>Journal of Neuroscience</i> , 2008, 28, 228-238.	3.6	60
45	Hypothalamic Orexin Prevents Hepatic Insulin Resistance via Daily Bidirectional Regulation of Autonomic Nervous System in Mice. <i>Diabetes</i> , 2015, 64, 459-470.	0.6	58
46	Effects of a newly developed potent orexin-2 receptor-selective antagonist, compound 1 m, on sleep/wakefulness states in mice. <i>Frontiers in Neuroscience</i> , 2014, 8, 8.	2.8	55
47	OX1 and OX2 orexin/hypocretin receptor pharmacogenetics. <i>Frontiers in Neuroscience</i> , 2014, 8, 57.	2.8	55
48	Roles of orexins in the regulation of feeding and arousal. <i>Sleep Medicine</i> , 2002, 3, S3-S9.	1.6	51
49	Orexin deficiency and narcolepsy. <i>Current Opinion in Neurobiology</i> , 2013, 23, 760-766.	4.2	51
50	Sleep and Wakefulness Are Controlled by Ventral Medial Midbrain/Pons GABAergic Neurons in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 10080-10092.	3.6	51
51	Monoamines Inhibit GABAergic Neurons in Ventrolateral Preoptic Area That Make Direct Synaptic Connections to Hypothalamic Arousal Neurons. <i>Journal of Neuroscience</i> , 2018, 38, 6366-6378.	3.6	51
52	Excitation of GABAergic Neurons in the Bed Nucleus of the Stria Terminalis Triggers Immediate Transition from Non-Rapid Eye Movement Sleep to Wakefulness in Mice. <i>Journal of Neuroscience</i> , 2017, 37, 7164-7176.	3.6	50
53	Endothelin-1 acts as an autocrine growth factor for normal human keratinocytes. <i>Journal of Cellular Physiology</i> , 1994, 159, 213-220.	4.1	49
54	Reverse pharmacology of orexin: from an orphan GPCR to integrative physiology. <i>Regulatory Peptides</i> , 2005, 126, 3-10.	1.9	48

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55	Neuron-related blood inflammatory markers as an objective evaluation tool for major depressive disorder: An exploratory pilot case-control study. <i>Journal of Affective Disorders</i> , 2018, 240, 88-98.	4.1	45
56	Ectopic Overexpression of Orexin Alters Sleep/Wakefulness States and Muscle Tone Regulation during REM Sleep in Mice. <i>Journal of Molecular Neuroscience</i> , 2011, 43, 155-161.	2.3	43
57	Orexin: a link between energy homeostasis and adaptive behaviour. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2003, 6, 353-60.	2.5	42
58	Roles of orexins in the regulation of body weight homeostasis. <i>Obesity Research and Clinical Practice</i> , 2014, 8, e414-e420.	1.8	37
59	Endothelins. <i>Drugs</i> , 1993, 46, 795-804.	10.9	34
60	Odour-induced analgesia mediated by hypothalamic orexin neurons in mice. <i>Scientific Reports</i> , 2016, 6, 37129.	3.3	34
61	Orexin as a modulator of fear-related behavior: Hypothalamic control of noradrenaline circuit. <i>Brain Research</i> , 2020, 1731, 146037.	2.2	34
62	Hypocretin/orexin deficiency decreases cocaine abuse liability. <i>Neuropharmacology</i> , 2018, 133, 395-403.	4.1	33
63	Ultraviolet B irradiation increases endothelin-1 and endothelin receptor expression in cultured human keratinocytes. <i>FEBS Letters</i> , 1995, 371, 188-190.	2.8	31
64	Orexin Receptor Multimerization versus Functional Interactions: Neuropharmacological Implications for Opioid and Cannabinoid Signalling and Pharmacogenetics. <i>Pharmaceuticals</i> , 2017, 10, 79.	3.8	31
65	Sleep Control, GPCRs, and Glucose Metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 633-642.	7.1	29
66	Glutamatergic neurons in the medial prefrontal cortex mediate the formation and retrieval of cocaine-associated memories in mice. <i>Addiction Biology</i> , 2020, 25, e12723.	2.6	28
67	QRFP-Deficient Mice Are Hypophagic, Lean, Hypoactive and Exhibit Increased Anxiety-Like Behavior. <i>PLoS ONE</i> , 2016, 11, e0164716.	2.5	28
68	A Discrete Glycinergic Neuronal Population in the Ventromedial Medulla That Induces Muscle Atonia during REM Sleep and Cataplexy in Mice. <i>Journal of Neuroscience</i> , 2021, 41, 1582-1596.	3.6	28
69	Evolutionary Origin of Distinct NREM and REM Sleep. <i>Frontiers in Psychology</i> , 2020, 11, 567618.	2.1	24
70	Associations between the orexin (hypocretin) receptor 2 gene polymorphism Val308Ile and nicotine dependence in genome-wide and subsequent association studies. <i>Molecular Brain</i> , 2015, 8, 50.	2.6	23
71	Timed Inhibition of Orexin System by Suvorexant Improved Sleep and Glucose Metabolism in Type 2 Diabetic db/db Mice. <i>Endocrinology</i> , 2016, 157, 4146-4157.	2.8	23
72	Serotonergic Input to Orexin Neurons Plays a Role in Maintaining Wakefulness and REM Sleep Architecture. <i>Frontiers in Neuroscience</i> , 2018, 12, 892.	2.8	23

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73	Concise Review: Regulatory Influence of Sleep and Epigenetics on Adult Hippocampal Neurogenesis and Cognitive and Emotional Function. <i>Stem Cells</i> , 2018, 36, 969-976.	3.2	22
74	Memory consolidation during sleep and adult hippocampal neurogenesis. <i>Neural Regeneration Research</i> , 2019, 14, 20.	3.0	22
75	Molecular cloning of low-Ca ²⁺ -sensitive-type non-muscle alpha-actinin. <i>FEBS Journal</i> , 1994, 223, 395-401.	0.2	21
76	Nighttime Administration of Nicotine Improves Hepatic Glucose Metabolism via the Hypothalamic Orexin System in Mice. <i>Endocrinology</i> , 2016, 157, 195-206.	2.8	16
77	Activation of lateral hypothalamic group III metabotropic glutamate receptors suppresses cocaine-seeking following abstinence and normalizes drug-associated increases in excitatory drive to orexin/hypocretin cells. <i>Neuropharmacology</i> , 2019, 154, 22-33.	4.1	14
78	Hypocretin Receptor Expression in Canine and Murine Narcolepsy Models and in Hypocretin-Ligand Deficient Human Narcolepsy. <i>Sleep</i> , 2008, , .	1.1	12
79	Messenger RNA expression profile of sleep-related genes in peripheral blood cells in patients with chronic kidney disease. <i>Clinical and Experimental Nephrology</i> , 2016, 20, 218-225.	1.6	12
80	Effect of context exposure after fear learning on memory generalization in mice. <i>Molecular Brain</i> , 2016, 9, 2.	2.6	11
81	Mesolimbic neuropeptide <i>W</i> coordinates stress responses under novel environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6023-6028.	7.1	10
82	Fine-Tuning Circadian Rhythms: The Importance of <i>Bmal1</i> Expression in the Ventral Forebrain. <i>Frontiers in Neuroscience</i> , 2017, 11, 55.	2.8	9
83	Miniaturized microscope with flexible light source input for neuronal imaging and manipulation in freely behaving animals. <i>Biochemical and Biophysical Research Communications</i> , 2019, 517, 520-524.	2.1	9
84	Regulation of orexin neurons by the monoaminergic and cholinergic systems. <i>Sleep and Biological Rhythms</i> , 2004, 2, S60-S60.	1.0	8
85	Auditory conditioned stimulus presentation during NREM sleep impairs fear memory in mice. <i>Scientific Reports</i> , 2017, 7, 46247.	3.3	8
86	Interaction between Orexin Neurons and Monoaminergic Systems. <i>Frontiers of Neurology and Neuroscience</i> , 2021, 45, 11-21.	2.8	7
87	Hypocretin/orexin prevents recovery from sickness. <i>Biomedical Reports</i> , 2015, 3, 648-650.	2.0	6
88	Sleep Architecture in Mice Is Shaped by the Transcription Factor <i>AP-2β</i> . <i>Genetics</i> , 2020, 216, 753-764.	2.9	5
89	Interaction between sleep mechanisms and orexin neurons. <i>Sleep and Biological Rhythms</i> , 2011, 9, 38-43.	1.0	4
90	Optogenetic Manipulation of Neural Circuits During Monitoring Sleep/wakefulness States in Mice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3

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91	The role of interaction between orexin receptors and α_2 adrenergic receptors in basolateral amygdala in dentate gyrus synaptic plasticity in male rats. <i>Brain Research Bulletin</i> , 2021, 177, 164-171.	3.0	1
92	Lack of handling stress-induced hyperthermia in orexin neuron-ablated mice. <i>FASEB Journal</i> , 2009, 23, 788.18.	0.5	1
93	Role of orexin neurons in prostaglandin E ₂ -induced fever and the defense against environmental cooling. <i>FASEB Journal</i> , 2012, 26, 891.2.	0.5	1
94	Expression of the poly-glutamine-ataxin-3 transgene causes loss of orexin expression: A rat model of narcolepsy. <i>Sleep and Biological Rhythms</i> , 2004, 2, S44-S44.	1.0	0
95	Inhibition of orexin-induced wakefulness by pyrilamine, an H1 receptor antagonist. <i>Sleep and Biological Rhythms</i> , 2004, 2, S47-S47.	1.0	0
96	Role of hypothalamic orexin neurons in the regulation of arousal according to energy balance. <i>Sleep and Biological Rhythms</i> , 2004, 2, S57-S57.	1.0	0
97	Selective loss of GABAB receptors in orexin/hypocretin-producing neurons results in disrupted sleep/wakefulness architecture. <i>Nature Precedings</i> , 2007, , .	0.1	0
98	Editorial: The Gating and Maintenance of Sleep and Wake: New Circuits and Insights. <i>Frontiers in Neuroscience</i> , 2020, 14, 773.	2.8	0
99	Orexin agonist improves inflammation-induced immobility. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, OR23-1.	0.0	0