

Takeshi Sakurai

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

19,149
citations

44069

48
h-index

37204

96
g-index

106
all docs

106
docs citations

106
times ranked

9504
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid eye movement sleep is initiated by basolateral amygdala dopamine signaling in mice. <i>Science</i> , 2022, 375, 994-1000.	12.6	75
2	Interaction between Orexin Neurons and Monoaminergic Systems. <i>Frontiers of Neurology and Neuroscience</i> , 2021, 45, 11-21.	2.8	7
3	The role of interaction between orexin receptors and β_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
4	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
5	Orexin as a modulator of fear-related behavior: Hypothalamic control of noradrenaline circuit. <i>Brain Research</i> , 2020, 1731, 146037.	2.2	34
6	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
7	Evolution of Orexin Neuropeptide System: Structure and Function. <i>Frontiers in Neuroscience</i> , 2020, 14, 691.	2.8	63
8	Editorial: The Gating and Maintenance of Sleep and Wake: New Circuits and Insights. <i>Frontiers in Neuroscience</i> , 2020, 14, 773.	2.8	0
9	Sleep Architecture in Mice Is Shaped by the Transcription Factor AP-2 β . <i>Genetics</i> , 2020, 216, 753-764.	2.9	5
10	Evolutionary Origin of Distinct NREM and REM Sleep. <i>Frontiers in Psychology</i> , 2020, 11, 567618.	2.1	24
11	A discrete neuronal circuit induces a hibernation-like state in rodents. <i>Nature</i> , 2020, 583, 109-114.	27.8	141
12	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
13	Narcolepsy " clinical spectrum, aetiopathophysiology, diagnosis and treatment. <i>Nature Reviews Neurology</i> , 2019, 15, 519-539.	10.1	364
14	Optogenetic Manipulation of Neural Circuits During Monitoring Sleep/wakefulness States in Mice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3
15	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
16	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
17	Memory consolidation during sleep and adult hippocampal neurogenesis. <i>Neural Regeneration Research</i> , 2019, 14, 20.	3.0	22
18	Hypocretin/orexin deficiency decreases cocaine abuse liability. <i>Neuropharmacology</i> , 2018, 133, 395-403.	4.1	33

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19	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
20	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
21	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
22	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
23	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
24	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
25	Orexin agonist improves inflammation-induced immobility. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, OR23-1.	0.0	0
26	Serotonin neurons in the dorsal raphe mediate the anticataplectic action of orexin neurons by reducing amygdala activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3526-E3535.	7.1	78
27	Auditory conditioned stimulus presentation during NREM sleep impairs fear memory in mice. <i>Scientific Reports</i> , 2017, 7, 46247.	3.3	8
28	Nonpeptide orexin type-2 receptor agonist ameliorates narcolepsy-cataplexy symptoms in mouse models. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5731-5736.	7.1	107
29	Orexin modulates behavioral fear expression through the locus coeruleus. <i>Nature Communications</i> , 2017, 8, 1606.	12.8	89
30	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
31	Orexin Receptor Multimerization versus Functional Interactions: Neuropharmacological Implications for Opioid and Cannabinoid Signalling and Pharmacogenetics. <i>Pharmaceuticals</i> , 2017, 10, 79.	3.8	31
32	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
33	Mesolimbic neuropeptide <i>W</i> coordinates stress responses under novel environments. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6023-6028.	7.1	10
34	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
35	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
36	Sleep Control, GPCRs, and Glucose Metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 633-642.	7.1	29

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37	Odour-induced analgesia mediated by hypothalamic orexin neurons in mice. <i>Scientific Reports</i> , 2016, 6, 37129.	3.3	34
38	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
39	Effect of context exposure after fear learning on memory generalization in mice. <i>Molecular Brain</i> , 2016, 9, 2.	2.6	11
40	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
41	QRFP-Deficient Mice Are Hypophagic, Lean, Hypoactive and Exhibit Increased Anxiety-Like Behavior. <i>PLoS ONE</i> , 2016, 11, e0164716.	2.5	28
42	Hypocretin/orexin prevents recovery from sickness. <i>Biomedical Reports</i> , 2015, 3, 648-650.	2.0	6
43	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
44	Comprehensive Behavioral Analysis of Male <i>Ox1^{-/-}</i> 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
45	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
46	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
47	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
48	OX1 and OX2 orexin/hypocretin receptor pharmacogenetics. <i>Frontiers in Neuroscience</i> , 2014, 8, 57.	2.8	55
49	Coreleased Orexin and Glutamate Evoke Nonredundant Spike Outputs and Computations in Histamine Neurons. <i>Cell Reports</i> , 2014, 7, 697-704.	6.4	160
50	Roles of orexins in the regulation of body weight homeostasis. <i>Obesity Research and Clinical Practice</i> , 2014, 8, e414-e420.	1.8	37
51	The role of orexin in motivated behaviours. <i>Nature Reviews Neuroscience</i> , 2014, 15, 719-731.	10.2	366
52	Orexin neurons suppress narcolepsy via 2 distinct efferent pathways. <i>Journal of Clinical Investigation</i> , 2014, 124, 604-616.	8.2	139
53	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
54	Orexin deficiency and narcolepsy. <i>Current Opinion in Neurobiology</i> , 2013, 23, 760-766.	4.2	51

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55	Role of orexin in modulating arousal, feeding, and motivation. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 28.	2.0	205
56	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
57	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
58	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
59	Interaction between sleep mechanisms and orexin neurons. <i>Sleep and Biological Rhythms</i> , 2011, 9, 38-43.	1.0	4
60	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
61	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
62	Pharmacogenetic Modulation of Orexin Neurons Alters Sleep/Wakefulness States in Mice. <i>PLoS ONE</i> , 2011, 6, e20360.	2.5	216
63	Orexin neurons are indispensable for stress-induced thermogenesis in mice. <i>Journal of Physiology</i> , 2010, 588, 4117-4129.	2.9	107
64	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
65	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
66	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
67	Enhanced Orexin Receptor-2 Signaling Prevents Diet-Induced Obesity and Improves Leptin Sensitivity. <i>Cell Metabolism</i> , 2009, 9, 64-76.	16.2	235
68	Lack of handling stress-induced hyperthermia in orexin neuron-ablated mice. <i>FASEB Journal</i> , 2009, 23, 788.18.	0.5	1
69	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
70	Hypocretin Receptor Expression in Canine and Murine Narcolepsy Models and in Hypocretin-Ligand Deficient Human Narcolepsy. <i>Sleep</i> , 2008, , .	1.1	12
71	Selective loss of GABA _B receptors in orexin/hypocretin-producing neurons results in disrupted sleep/wakefulness architecture. <i>Nature Precedings</i> , 2007, , .	0.1	0
72	The neural circuit of orexin (hypocretin): maintaining sleep and wakefulness. <i>Nature Reviews Neuroscience</i> , 2007, 8, 171-181.	10.2	1,060

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73	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
74	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
75	GABA Receptor-mediated modulation of hypocretin/orexin neurones in mouse hypothalamus. <i>Journal of Physiology</i> , 2006, 574, 399-414.	2.9	87
76	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
77	Roles of orexin/hypocretin in regulation of sleep/wakefulness and energy homeostasis. <i>Sleep Medicine Reviews</i> , 2005, 9, 231-241.	8.5	246
78	Input of Orexin/Hypocretin Neurons Revealed by a Genetically Encoded Tracer in Mice. <i>Neuron</i> , 2005, 46, 297-308.	8.1	430
79	Reverse pharmacology of orexin: from an orphan GPCR to integrative physiology. <i>Regulatory Peptides</i> , 2005, 126, 3-10.	1.9	48
80	Serotonergic Regulation of the Orexin/Hypocretin Neurons through the 5-HT1A Receptor. <i>Journal of Neuroscience</i> , 2004, 24, 7159-7166.	3.6	184
81	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
82	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
83	Inhibition of orexin-induced wakefulness by pyrillamine, an H1 receptor antagonist. <i>Sleep and Biological Rhythms</i> , 2004, 2, S47-S47.	1.0	0
84	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
85	Regulation of orexin neurons by the monoaminergic and cholinergic systems. <i>Sleep and Biological Rhythms</i> , 2004, 2, S60-S60.	1.0	8
86	Hypothalamic Orexin Neurons Regulate Arousal According to Energy Balance in Mice. <i>Neuron</i> , 2003, 38, 701-713.	8.1	833
87	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
88	Roles of orexins in regulation of feeding and wakefulness. <i>NeuroReport</i> , 2002, 13, 987-995.	1.2	108
89	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
90	Roles of orexins in the regulation of feeding and arousal. <i>Sleep Medicine</i> , 2002, 3, S3-S9.	1.6	51

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91	Genetic Ablation of Orexin Neurons in Mice Results in Narcolepsy, Hypophagia, and Obesity. <i>Neuron</i> , 2001, 30, 345-354.	8.1	1,307
92	Distribution of orexin neurons in the adult rat brain. <i>Brain Research</i> , 1999, 827, 243-260.	2.2	1,060
93	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
94	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
95	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
96	Molecular cloning of low-Ca ²⁺ -sensitive-type non-muscle alpha-actinin. <i>FEBS Journal</i> , 1994, 223, 395-401.	0.2	21
97	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
98	Endothelins. <i>Drugs</i> , 1993, 46, 795-804.	10.9	34
99	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