Kazuya Sakai

List of Publications by Year
in descending order

90 papers	7,482 citations	66315 42 h-index	56687 83 g-index
97 all docs	97 docs citations	97 times ranked	3776 citing authors

#	Article	IF	Citations
1	Neural organization for the long-term memory of paired associates. Nature, 1991, 354, 152-155.	13.7	795
2	Unitary characteristics of presumptive cholinergic tegmental neurons during the sleep-waking cycle in freely moving cats. Experimental Brain Research, 1989, 76, 519-529.	0.7	350
3	Preferential activation of different I waves by transcranial magnetic stimulation with a figure-of-eight-shaped coil. Experimental Brain Research, 1997, 113, 24-32.	0.7	337
4	Neuronal activity specific to paradoxical sleep in the ventromedial medullary reticular formation of unrestrained cats. Brain Research, 1980, 189, 251-255.	1.1	322
5	A critical role of the posterior hypothalamus in the mechanisms of wakefulness determined by microinjection of muscimol in freely moving cats. Brain Research, 1989, 479, 225-240.	1.1	305
6	Neuronal Activity of Histaminergic Tuberomammillary Neurons During Wake-Sleep States in the Mouse. Journal of Neuroscience, 2006, 26, 10292-10298.	1.7	288
7	Bulbo-thalamic neurons related to thalamocortical activation processes during paradoxical sleep. Experimental Brain Research, 1984, 54, 463-75.	0.7	231
8	Brain stem PGO-on cells projecting directly to the cat dorsal lateral geniculate nucleus. Brain Research, 1980, 194, 500-505.	1.1	230
9	Spinal projections from the lower brain stem in the cat as demonstrated by the horseradish peroxidase technique. I. Origins of the reticulospinal tracts and their funicular trajectories. Brain Research, 1979, 173, 383-403.	1.1	224
10	Neuronal activity of orexin and non-orexin waking-active neurons during wakeâ€“sleep states in the mouse. Neuroscience, 2008, 153, 860-870.	1.1	211
11	The Nuclei of origin of monoaminergic, peptidergic, and cholinergic afferents to the cat nucleus reticularis magnocellularis: A double-labeling study with cholera toxin as a retrograde tracer. Journal of Comparative Neurology, 1988, 277, 1-20.	0.9	199
12	Mapping of cholinoceptive brainstem structures responsible for the generation of paradoxical sleep in the cat. Archives Italiennes De Biologie, 1989, 127, 133-64.	0.1	199
13	Locus coeruleus neuronal activity during the sleep-waking cycle in mice. Neuroscience, 2010, 169, 1115-1126.	1.1	194
14	Discharge patterns of the nucleus parabrachialis lateralis neurons of the cat during sleep and waking. Brain Research, 1977, 134, 59-72.	1.1	179
15	Inhibition of carbachol microinjections of presumptive cholinergic PGO-on neurons in freely moving cats. Brain Research, 1990, 527, 213-223.	1.1	178
16	Kainate receptors. NeuroReport, 1995, 6, 353-356.	0.6	163
17	Cells of a common developmental origin regulate REM/non-REM sleep and wakefulness in mice. Science, 2015, 350, 957-961.	6.0	157
18	Responses of presumed cholinergic mesopontine tegmental neurons to carbachol microinjections in freely moving cats. Experimental Brain Research, 1990, 83, 115-123.	0.7	131

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19	Differentiation of presumed serotonergic dorsal raphe neurons in relation to behavior and wakeâ€“sleep states. Neuroscience, 2001, 104, 1141-1155.	1.1	127
20	Executive mechanisms of paradoxical sleep. Archives Italiennes De Biologie, 1988, 126, 239-57.	0.1	117
21	Characterization and mapping of sleepâ€“waking specific neurons in the basal forebrain and preoptic hypothalamus in mice. Neuroscience, 2009, 161, 269-292.	1.1	116
22	Are there cholinergic and non-cholinergic paradoxical sleep-on neurones in the pons?. NeuroReport, 1996, 7, 2449-2454.	0.6	109
23	Fluid Shear Stress Increases Transforming Growth Factor Beta 1 Expression in Human Osteoblast-like Cells: Modulation by Cation Channel Blockades. Calcified Tissue International, 1998, 63, 515-520.	1.5	103
24	Nuclei of origin of monoaminergic, peptidergic, and cholinergic afferents to the cat trigeminal motor nucleus: A double-labeling study with cholera-toxin as a retrograde tracer. Journal of Comparative Neurology, 1990, 301, 262-275.	0.9	96
25	Functional mapping of the human colour centre with echo-planar magnetic resonance imaging. Proceedings of the Royal Society B: Biological Sciences, 1995, 261, 89-98.	1.2	96
26	The polymorphism of manganese superoxide dismutase is associated with diabetic nephropathy in Japanese type 2 diabetic patients. Journal of Human Genetics, 2003, 48, 0138-0141.	1.1	95
27	Pontine structures and mechanisms involved in the generation of paradoxical (REM) sleep. Archives Italiennes De Biologie, 2001, 139, 93-107.	0.1	95
28	Role of the Lateral Preoptic Area in Sleep-Related Erectile Mechanisms and Sleep Generation in the Rat. Journal of Neuroscience, 2000, 20, 6640-6647.	1.7	85
29	Effects of microdialysis application of monoamines on the EEG and behavioural states in the cat mesopontine tegmentum. European Journal of Neuroscience, 1999, 11, 3738-3752.	1.2	82
30	Functional Mapping of the Human Somatosensory Cortex with Echo-Planar MRI. Magnetic Resonance in Medicine, 1995, 33, 736-743.	1.9	80
31	Lower brainstem afferents to the cat posterior hypothalamus: A double-labeling study. Brain Research Bulletin, 1990, 24, 437-455.	1.4	78
32	Physiological properties and afferent connections of the locus coeruleus and adjacent tegmental neurons involved in the generation of paradoxical sleep in the cat. Progress in Brain Research, 1991, 88, 31-45.	0.9	78
33	Serotonergic dorsal raphe neurons cease firing by disfacilitation during paradoxical sleep. NeuroReport, 2000, 11, 3237-3241.	0.6	78
34	Venous distensibility during pregnancy. Comparisons between normal pregnancy and preeclampsia.. Hypertension, 1994, 24, 461-466.	1.3	62
35	Neuronal tuning to learned complex forms in vision. NeuroReport, 1994, 5, 829-832.	0.6	60
36	A potent non-monoaminergic paradoxical sleep inhibitory system: a reverse microdialysis and single-unit recording study. European Journal of Neuroscience, 2006, 24, 1404-1412.	1.2	56

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37	Sleep-waking discharge profiles of dorsal raphe nucleus neurons in mice. Neuroscience, 2011, 197, 200-224.	1.1	55
38	Modulation of presumed cholinergic mesopontine tegmental neurons by acetylcholine and monoamines applied iontophoretically in unanesthetized cats. Neuroscience, 2000, 96, 723-733.	1.1	50
39	Memory and imagery in the temporal lobe. Current Opinion in Neurobiology, 1993, 3, 166-170.	2.0	49
40	Carbachol microinjections in the mediodorsal pontine tegmentum are unable to induce paradoxical sleep after caudal pontine and prebulbar transections in the cat. Neuroscience Letters, 1991, 130, 41-45.	1.0	48
41	Neuronal tuning and associative mechanisms in form representation. Learning and Memory, 1994, 1, 83-105.	0.5	47
42	A neural mechanism of sleep and wakefulness. Sleep and Biological Rhythms, 2003, 1, 29-42.	0.5	44
43	Sleep-waking discharge of ventral tuberomammillary neurons in wild-type and histidine decarboxylase knock-out mice. Frontiers in Behavioral Neuroscience, 2010, 4, 53.	1.0	42
44	Discharge properties of presumed cholinergic and noncholinergic laterodorsal tegmental neurons related to cortical activation in non-anesthetized mice. Neuroscience, 2012, 224, 172-190.	1.1	41
45	Forebrain afferents to the cat posterior hypothalamus: A double labeling study. Brain Research Bulletin, 1989, 23, 83-104.	1.4	38
46	Sleep-waking discharge profiles of median preoptic and surrounding neurons in mice. Neuroscience, 2011, 182, 144-161.	1.1	35
47	Electron immunohistochemical localization in rat bronchiolar epithelial cells of tryptase Clara, which determines the pneumotropism and pathogenicity of Sendai virus and influenza virus.. Journal of Histochemistry and Cytochemistry, 1993, 41, 89-93.	1.3	34
48	Critical Role for M3Muscarinic Receptors in Paradoxical Sleep Generation in the Cat. European Journal of Neuroscience, 1997, 9, 415-423.	1.2	34
49	Periventricular dopaminergic neurons terminating in the neuro-intermediate lobe of the cat hypophysis. Journal of Comparative Neurology, 1986, 244, 204-212.	0.9	33
50	Relationship between Pelvic Lymph Node Involvement and Other Disease Sites in Patients with Ovarian Cancer. Gynecologic Oncology, 1997, 65, 164-168.	0.6	33
51	Evidence for the presence of eye movement potentials during paradoxical sleep in cats. Electroencephalography and Clinical Neurophysiology, 1976, 41, 37-48.	0.3	32
52	Substance P receptor (NK1) gene expression in synovial tissue in rheumatoid arthritis and osteoarthritis. Scandinavian Journal of Rheumatology, 1998, 27, 135-141.	0.6	32
53	Role of dorsal raphe neurons in paradoxical sleep generation in the cat: no evidence for a serotonergic mechanism. European Journal of Neuroscience, 2001, 13, 103-12.	1.2	30
54	Fluid Shear Stress Increases Interleukin-11 Expression in Human Osteoblast-like Cells: Its Role in Osteoclast Induction. Journal of Bone and Mineral Research, 1999, 14, 2089-2098.	3.1	29

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55	Central Mechanisms of Paradoxical Sleep. Experimental Brain Research Supplementum, 1984, , 3-18.	1.0	26
56	Long-term variations of arterial blood pressure during sleep in freely moving cats. Physiology and Behavior, 1994, 55, 673-679.	1.0	25
57	Sendai virus infection changes the subcellular localization of tryptase Clara in rat bronchiolar epithelial cells. European Respiratory Journal, 1994, 7, 686-692.	3.1	24
58	Effects of pH Variation and NaCl on In Vitro Digestibility of Cow's Milk Proteins in Commercially Available Infant Formulas.. Journal of Nutritional Science and Vitaminology, 2000, 46, 325-328.	0.2	23
59	Paradoxical (rapid eye movement) sleep-on neurons in the laterodorsal pontine tegmentum in mice. Neuroscience, 2015, 310, 455-471.	1.1	23
60	Role of dorsal raphe neurons in paradoxical sleep generation in the cat: no evidence for a serotonergic mechanism. European Journal of Neuroscience, 2001, 13, 103-112.	1.2	22
61	Temporal change in Syndecan-1 as a therapeutic target and a biomarker for the severity classification of COVID-19. Thrombosis Journal, 2021, 19, 55.	0.9	21
62	Effects of decerebration on blood pressure during paradoxical sleep in cats. Brain Research Bulletin, 1995, 37, 545-549.	1.4	19
63	Single unit activity of the suprachiasmatic nucleus and surrounding neurons during the wakeâ€“sleep cycle in mice. Neuroscience, 2014, 260, 249-264.	1.1	17
64	Comparison of p53, Ki-67, and CD44v6 Expression between Primary and Matched Metastatic Lesions in Ovarian Cancer. Gynecologic Oncology, 1999, 72, 360-366.	0.6	16
65	Increase in copy number of N-myc in retinoblastomas in comparison with chromosome abnormality. Cancer Genetics and Cytogenetics, 1988, 30, 119-126.	1.0	14
66	Single unit activity of periaqueductal gray and deep mesencephalic nucleus neurons involved in sleep stage switching in the mouse. European Journal of Neuroscience, 2018, 47, 1110-1126.	1.2	14
67	Are there Sleep-promoting Neurons in the Mouse Parafacial Zone?. Neuroscience, 2017, 367, 98-109.	1.1	11
68	Behavioural stateâ€specific neurons in the mouse medulla involved in sleepâ€wake switching. European Journal of Neuroscience, 2018, 47, 1482-1503.	1.2	11
69	Increase in antidromic excitability in presumed serotonergic dorsal raphe neurons during paradoxical sleep in the cat. Brain Research, 2001, 898, 332-341.	1.1	10
70	Catecholaminergic afferents to the cat median eminence as determined by double-labelling methods. Neuroscience, 1990, 36, 491-505.	1.1	9
71	Role of the locus coeruleus in the control of paradoxical sleep generation in the cat. Archives Italiennes De Biologie, 2004, 142, 421-7.	0.1	9
72	What singleâ€unit recording studies tell us about the basic mechanisms of sleep and wakefulness. European Journal of Neuroscience, 2020, 52, 3507-3530.	1.2	8

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73	Methotrexate-resistant mechanisms in human choriocarcinoma cells. Gynecologic Oncology, 1989, 34, 7-11.	0.6	7
74	The Interval between the Positive Peak of Premyoclonus Spike and the Onset of Myoclonus Is Shorter than the Cortical Latency in Cortical Myoclonus. European Neurology, 1993, 33, 83-89.	0.6	7
75	Effects of an inhibitor of protein kinases on the response to heat treatment in cultured mammalian cells. International Journal of Hyperthermia, 1997, 13, 535-545.	1.1	6
76	Brainstem neurons responsible for postural, masseter or pharyngeal muscle atonia during paradoxical sleep in freely-moving cats. Archives Italiennes De Biologie, 2011, 149, 325-47.	0.1	6
77	Electrophysiological studies on serotonergic neurons and sleep. , 2008, , 205-236.		4
78	A non-glycosylated form of pulmonary surfactant protein A appears in rat amniotic fluid. European Respiratory Journal, 1994, 7, 88-93.	3.1	3
79	Effects of pulmonary surfactant and surfactant protein A on phagocytosis of fractionated alveolar macrophages: relationship to starvation. , 1992, 38, 123-30.		3
80	Are there non-monoaminergic paradoxical sleep-off neurons in the brainstem?. Sleep Research Online: SRO, 1999, 2, 57-63.	0.1	2
81	Affinity Labeling of the Allosteric Site of Fructose 1,6-Bisphosphatase with an AMP Analog. Journal of Biochemistry, 1987, 102, 377-384.	0.9	1
82	Association Between the Fertile Period and Live Birth Postâ€“Kidney Transplantation: A Retrospective Single-Center Cohort Study. Transplantation Proceedings, 2017, 49, 1068-1072.	0.3	1
83	How blood viscosity influences changes in circulation during pregnancy?. Fukuoka Acta Medica, 1992, 83, 328-32.	0.1	1
84	Heterogeneity of immunohistochemical staining with pulmonary surfactant protein A among fractionated alveolar macrophages which involves metabolism of pulmonary surfactant. Cellular and Molecular Biology, 1992, 38, 853-60.	0.3	1
85	Pulmonary surfactant obtained from starved rats enhances phagocytosis of alveolar macrophages. , 1991, 37, 475-80.		1
86	Morphological heterogeneity among fractionated alveolar macrophages in their release of lysosomal enzymes. , 1991, 37, 85-94.		1
87	Removal of Plasma Low Density Lipoprotein by Adsorption Chromatography with Porous Glass. The Journal of Japan Atherosclerosis Society, 1982, 10, 929-934.	0.0	0
88	A case report of fulminant amebic colitis.. Nihon Daicho Komonbyo Gakkai Zasshi, 1988, 41, 836-841.	0.1	0
89	Fluorescence demonstration of cathepsin B activity in fractionated alveolar macrophages. , 1991, 37, 353-8.		0
90	Immunohistochemical localization of surfactant protein A in N-bis (2-hydroxypropyl) nitrosamine-induced lung tumors in rats. The Tokushima Journal of Experimental Medicine, 1996, 43, 55-9.	0.1	0