

Kazuya Sakai

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

6,442
citations

41
h-index

80
g-index

97
ext. papers

7,086
ext. citations

4.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
90	Neural organization for the long-term memory of paired associates. <i>Nature</i> , 1991 , 354, 152-5	50.4	688
89	Unitary characteristics of presumptive cholinergic tegmental neurons during the sleep-waking cycle in freely moving cats. <i>Experimental Brain Research</i> , 1989 , 76, 519-29	2.3	306
88	Preferential activation of different I waves by transcranial magnetic stimulation with a figure-of-eight-shaped coil. <i>Experimental Brain Research</i> , 1997 , 113, 24-32	2.3	300
87	A critical role of the posterior hypothalamus in the mechanisms of wakefulness determined by microinjection of muscimol in freely moving cats. <i>Brain Research</i> , 1989 , 479, 225-40	3.7	285
86	Neuronal activity of histaminergic tuberomammillary neurons during wake-sleep states in the mouse. <i>Journal of Neuroscience</i> , 2006 , 26, 10292-8	6.6	243
85	Neuronal activity specific to paradoxical sleep in the ventromedial medullary reticular formation of unresdrained cats. <i>Brain Research</i> , 1980 , 189, 251-5	3.7	242
84	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. <i>Brain Research</i> , 1979 , 173, 383-403	3.7	215
83	Brain stem PGO-on cells projecting directly to the cat dorsal lateral geniculate nucleus. <i>Brain Research</i> , 1980 , 194, 500-5	3.7	210
82	Neuronal activity of orexin and non-orexin waking-active neurons during wake-sleep states in the mouse. <i>Neuroscience</i> , 2008 , 153, 860-70	3.9	186
81	Mapping of cholinceptive brainstem structures responsible for the generation of paradoxical sleep in the cat. <i>Archives Italiennes De Biologie</i> , 1989 , 127, 133-64	1.1	186
80	Discharge patterns of the nucleus parabrachialis lateralis neurons of the cat during sleep and waking. <i>Brain Research</i> , 1977 , 134, 59-72	3.7	170
79	Inhibition by carbachol microinjections of presumptive cholinergic PGO-on neurons in freely moving cats. <i>Brain Research</i> , 1990 , 527, 213-23	3.7	164
78	Kainate receptors. <i>NeuroReport</i> , 1995 , 6, 353-356	1.7	152
77	Locus coeruleus neuronal activity during the sleep-waking cycle in mice. <i>Neuroscience</i> , 2010 , 169, 1115-26.9	26.9	150
76	Bulbo-thalamic neurons related to thalamocortical activation processes during paradoxical sleep. <i>Experimental Brain Research</i> , 1984 , 54, 463-75	2.3	147
75	Responses of presumed cholinergic mesopontine tegmental neurons to carbachol microinjections in freely moving cats. <i>Experimental Brain Research</i> , 1990 , 83, 115-23	2.3	125
74	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. <i>Journal of Comparative Neurology</i> , 1988 , 277, 1-20	3.4	122

73	Differentiation of presumed serotonergic dorsal raphe neurons in relation to behavior and wake-sleep states. <i>Neuroscience</i> , 2001 , 104, 1141-55	3.9	113
72	Cells of a common developmental origin regulate REM/non-REM sleep and wakefulness in mice. <i>Science</i> , 2015 , 350, 957-61	33.3	112
71	Executive mechanisms of paradoxical sleep. <i>Archives Italiennes De Biologie</i> , 1988 , 126, 239-57	1.1	110
70	Are there cholinergic and non-cholinergic paradoxical sleep-on neurones in the pons?. <i>NeuroReport</i> , 1996 , 7, 2449-53	1.7	99
69	Characterization and mapping of sleep-waking specific neurons in the basal forebrain and preoptic hypothalamus in mice. <i>Neuroscience</i> , 2009 , 161, 269-92	3.9	96
68	Fluid shear stress increases transforming growth factor beta 1 expression in human osteoblast-like cells: modulation by cation channel blockades. <i>Calcified Tissue International</i> , 1998 , 63, 515-20	3.9	94
67	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. <i>Journal of Comparative Neurology</i> , 1990 , 301, 262-75	3.4	92
66	Pontine structures and mechanisms involved in the generation of paradoxical (REM) sleep. <i>Archives Italiennes De Biologie</i> , 2001 , 139, 93-107	1.1	87
65	The polymorphism of manganese superoxide dismutase is associated with diabetic nephropathy in Japanese type 2 diabetic patients. <i>Journal of Human Genetics</i> , 2003 , 48, 138-41	4.3	81
64	Role of the lateral preoptic area in sleep-related erectile mechanisms and sleep generation in the rat. <i>Journal of Neuroscience</i> , 2000 , 20, 6640-7	6.6	79
63	Functional mapping of the human colour centre with echo-planar magnetic resonance imaging. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1995 , 261, 89-98	4.4	76
62	Serotonergic dorsal raphe neurons cease firing by disfacilitation during paradoxical sleep. <i>NeuroReport</i> , 2000 , 11, 3237-41	1.7	73
61	Functional mapping of the human somatosensory cortex with echo-planar MRI. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 736-43	4.4	71
60	Lower brainstem afferents to the cat posterior hypothalamus: a double-labeling study. <i>Brain Research Bulletin</i> , 1990 , 24, 437-55	3.9	71
59	Effects of microdialysis application of monoamines on the EEG and behavioural states in the cat mesopontine tegmentum. <i>European Journal of Neuroscience</i> , 1999 , 11, 3738-52	3.5	67
58	Physiological properties and afferent connections of the locus coeruleus and adjacent tegmental neurons involved in the generation of paradoxical sleep in the cat. <i>Progress in Brain Research</i> , 1991 , 88, 31-45	2.9	67
57	Venous distensibility during pregnancy. Comparisons between normal pregnancy and preeclampsia. <i>Hypertension</i> , 1994 , 24, 461-6	8.5	56
56	Neuronal tuning to learned complex forms in vision. <i>NeuroReport</i> , 1994 , 5, 829-32	1.7	55

55	A potent non-monoaminergic paradoxical sleep inhibitory system: a reverse microdialysis and single-unit recording study. <i>European Journal of Neuroscience</i> , 2006 , 24, 1404-12	3.5	49
54	Memory and imagery in the temporal lobe. <i>Current Opinion in Neurobiology</i> , 1993 , 3, 166-70	7.6	48
53	Modulation of presumed cholinergic mesopontine tegmental neurons by acetylcholine and monoamines applied iontophoretically in unanesthetized cats. <i>Neuroscience</i> , 2000 , 96, 723-33	3.9	47
52	Neuronal tuning and associative mechanisms in form representation. <i>Learning and Memory</i> , 1994 , 1, 83-108	10.8	45
51	Sleep-waking discharge profiles of dorsal raphe nucleus neurons in mice. <i>Neuroscience</i> , 2011 , 197, 200-24.9	24.9	41
50	Carbachol microinjections in the mediodorsal pontine tegmentum are unable to induce paradoxical sleep after caudal pontine and prebulbar transections in the cat. <i>Neuroscience Letters</i> , 1991 , 130, 41-5	3.3	40
49	A neural mechanism of sleep and wakefulness. <i>Sleep and Biological Rhythms</i> , 2003 , 1, 29-42	1.3	38
48	Sleep-waking discharge of ventral tuberomammillary neurons in wild-type and histidine decarboxylase knock-out mice. <i>Frontiers in Behavioral Neuroscience</i> , 2010 , 4, 53	3.5	36
47	Forebrain afferents to the cat posterior hypothalamus: a double labeling study. <i>Brain Research Bulletin</i> , 1989 , 23, 83-104	3.9	36
46	Periventricular dopaminergic neurons terminating in the neuro-intermediate lobe of the cat hypophysis. <i>Journal of Comparative Neurology</i> , 1986 , 244, 204-12	3.4	33
45	Sleep-waking discharge profiles of median preoptic and surrounding neurons in mice. <i>Neuroscience</i> , 2011 , 182, 144-61	3.9	32
44	Discharge properties of presumed cholinergic and noncholinergic laterodorsal tegmental neurons related to cortical activation in non-anesthetized mice. <i>Neuroscience</i> , 2012 , 224, 172-90	3.9	29
43	Electron immunohistochemical localization in rat bronchiolar epithelial cells of tryptase Clara, which determines the pneumotropism and pathogenicity of Sendai virus and influenza virus. <i>Journal of Histochemistry and Cytochemistry</i> , 1993 , 41, 89-93	3.4	29
42	Evidence for the presence of eye movement potentials during paradoxical sleep in cats. <i>Electroencephalography and Clinical Neurophysiology</i> , 1976 , 41, 37-48		29
41	Relationship between pelvic lymph node involvement and other disease sites in patients with ovarian cancer. <i>Gynecologic Oncology</i> , 1997 , 65, 164-8	4.9	27
40	Substance P receptor (NK1) gene expression in synovial tissue in rheumatoid arthritis and osteoarthritis. <i>Scandinavian Journal of Rheumatology</i> , 1998 , 27, 135-41	1.9	27
39	Critical role for M3 muscarinic receptors in paradoxical sleep generation in the cat. <i>European Journal of Neuroscience</i> , 1997 , 9, 415-23	3.5	26
38	Central Mechanisms of Paradoxical Sleep. <i>Experimental Brain Research Supplementum</i> , 1984 , 3-18		26

37	Role of dorsal raphe neurons in paradoxical sleep generation in the cat: no evidence for a serotonergic mechanism. <i>European Journal of Neuroscience</i> , 2001 , 13, 103-12	3.5	26
36	Fluid shear stress increases interleukin-11 expression in human osteoblast-like cells: its role in osteoclast induction. <i>Journal of Bone and Mineral Research</i> , 1999 , 14, 2089-98	6.3	24
35	Long-term variations of arterial blood pressure during sleep in freely moving cats. <i>Physiology and Behavior</i> , 1994 , 55, 673-9	3.5	24
34	Role of dorsal raphe neurons in paradoxical sleep generation in the cat: no evidence for a serotonergic mechanism. <i>European Journal of Neuroscience</i> , 2001 , 13, 103-112	3.5	21
33	Paradoxical (rapid eye movement) sleep-on neurons in the laterodorsal pontine tegmentum in mice. <i>Neuroscience</i> , 2015 , 310, 455-71	3.9	20
32	Effects of pH variation and NaCl on in vitro digestibility of cow's milk proteins in commercially available infant formulas. <i>Journal of Nutritional Science and Vitaminology</i> , 2000 , 46, 325-8	1.1	20
31	Effect of decerebration on blood pressure during paradoxical sleep in cats. <i>Brain Research Bulletin</i> , 1995 , 37, 545-9	3.9	18
30	Sendai virus infection changes the subcellular localization of tryptase Clara in rat bronchiolar epithelial cells. <i>European Respiratory Journal</i> , 1994 , 7, 686-92	13.6	18
29	Comparison of p53, Ki-67, and CD44v6 expression between primary and matched metastatic lesions in ovarian cancer. <i>Gynecologic Oncology</i> , 1999 , 72, 360-6	4.9	14
28	Increase in copy number of N-myc in retinoblastomas in comparison with chromosome abnormality. <i>Cancer Genetics and Cytogenetics</i> , 1988 , 30, 119-26		13
27	Single unit activity of the suprachiasmatic nucleus and surrounding neurons during the wake-sleep cycle in mice. <i>Neuroscience</i> , 2014 , 260, 249-64	3.9	12
26	Single unit activity of periaqueductal gray and deep mesencephalic nucleus neurons involved in sleep stage switching in the mouse. <i>European Journal of Neuroscience</i> , 2018 , 47, 1110-1126	3.5	9
25	Are there Sleep-promoting Neurons in the Mouse Parafacial Zone?. <i>Neuroscience</i> , 2017 , 367, 98-109	3.9	9
24	Role of the locus coeruleus in the control of paradoxical sleep generation in the cat. <i>Archives Italiennes De Biologie</i> , 2004 , 142, 421-7	1.1	9
23	Increase in antidromic excitability in presumed serotonergic dorsal raphe neurons during paradoxical sleep in the cat. <i>Brain Research</i> , 2001 , 898, 332-41	3.7	8
22	Catecholaminergic afferents to the cat median eminence as determined by double-labelling methods. <i>Neuroscience</i> , 1990 , 36, 491-505	3.9	8
21	Behavioural state-specific neurons in the mouse medulla involved in sleep-wake switching. <i>European Journal of Neuroscience</i> , 2018 , 47, 1482-1503	3.5	7
20	Effects of an inhibitor of protein kinases on the response to heat treatment in cultured mammalian cells. <i>International Journal of Hyperthermia</i> , 1997 , 13, 535-45	3.7	6

19	Brainstem neurons responsible for postural, masseter or pharyngeal muscle atonia during paradoxical sleep in freely-moving cats. <i>Archives Italiennes De Biologie</i> , 2011 , 149, 325-47	1.1	6
18	The interval between the positive peak of premyoclonus spike and the onset of myoclonus is shorter than the cortical latency in cortical myoclonus. <i>European Neurology</i> , 1993 , 33, 83-9	2.1	4
17	Methotrexate-resistant mechanisms in human choriocarcinoma cells. <i>Gynecologic Oncology</i> , 1989 , 34, 7-11	4.9	4
16	What single-unit recording studies tell us about the basic mechanisms of sleep and wakefulness. <i>European Journal of Neuroscience</i> , 2020 , 52, 3507-3530	3.5	4
15	Effects of pulmonary surfactant and surfactant protein A on phagocytosis of fractionated alveolar macrophages: relationship to starvation 1992 , 38, 123-30		3
14	Temporal change in Syndecan-1 as a therapeutic target and a biomarker for the severity classification of COVID-19. <i>Thrombosis Journal</i> , 2021 , 19, 55	5.6	3
13	A non-glycosylated form of pulmonary surfactant protein A appears in rat amniotic fluid. <i>European Respiratory Journal</i> , 1994 , 7, 88-93	13.6	2
12	Electrophysiological studies on serotonergic neurons and sleep 2008 , 205-236		2
11	Are there non-monoaminergic paradoxical sleep-off neurons in the brainstem?. <i>Sleep Research Online: SRO</i> , 1999 , 2, 57-63		2
10	Association Between the Fertile Period and Live Birth Post-Kidney Transplantation: A Retrospective Single-Center Cohort Study. <i>Transplantation Proceedings</i> , 2017 , 49, 1068-1072	1.1	1
9	How blood viscosity influences changes in circulation during pregnancy?. <i>Fukuoka Acta Medica</i> , 1992 , 83, 328-32		1
8	Heterogeneity of immunohistochemical staining with pulmonary surfactant protein A among fractionated alveolar macrophages which involves metabolism of pulmonary surfactant. <i>Cellular and Molecular Biology</i> , 1992 , 38, 853-60	1.1	1
7	Pulmonary surfactant obtained from starved rats enhances phagocytosis of alveolar macrophages 1991 , 37, 475-80		1
6	Morphological heterogeneity among fractionated alveolar macrophages in their release of lysosomal enzymes 1991 , 37, 85-94		1
5	Affinity labeling of the allosteric site of fructose 1,6-bisphosphatase with an AMP analog. <i>Journal of Biochemistry</i> , 1987 , 102, 377-84	3.1	
4	Fluorescence demonstration of cathepsin B activity in fractionated alveolar macrophages 1991 , 37, 353-8		
3	A case report of fulminant amebic colitis.. <i>Nihon Daicho Komonbyo Gakkai Zasshi</i> , 1988 , 41, 836-841	0.1	
2	Removal of Plasma Low Density Lipoprotein by Adsorption Chromatography with Porous Glass. <i>The Journal of Japan Atherosclerosis Society</i> , 1982 , 10, 929-934		

- 1 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