

Yasuo Kawaguchi

List of Publications by Year in descending order

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88
papers

13,560
citations

38742

50
h-index

62596

80
g-index

93
all docs

93
docs citations

93
times ranked

8767
citing authors

#	ARTICLE	IF	CITATIONS
1	GABAergic cell subtypes and their synaptic connections in rat frontal cortex. <i>Cerebral Cortex</i> , 1997, 7, 476-486.	2.9	1,249
2	Striatal interneurons: chemical, physiological and morphological characterization. <i>Trends in Neurosciences</i> , 1995, 18, 527-535.	8.6	1,051
3	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	10.2	707
4	Physiological, morphological, and histochemical characterization of three classes of interneurons in rat neostriatum. <i>Journal of Neuroscience</i> , 1993, 13, 4908-4923.	3.6	700
5	The origins of two-state spontaneous membrane potential fluctuations of neostriatal spiny neurons. <i>Journal of Neuroscience</i> , 1996, 16, 2397-2410.	3.6	680
6	Projection subtypes of rat neostriatal matrix cells revealed by intracellular injection of biocytin. <i>Journal of Neuroscience</i> , 1990, 10, 3421-3438.	3.6	522
7	Correlation of physiological subgroupings of nonpyramidal cells with parvalbumin- and calbindinD28k-immunoreactive neurons in layer V of rat frontal cortex. <i>Journal of Neurophysiology</i> , 1993, 70, 387-396.	1.8	511
8	Physiological subgroups of nonpyramidal cells with specific morphological characteristics in layer II/III of rat frontal cortex. <i>Journal of Neuroscience</i> , 1995, 15, 2638-2655.	3.6	478
9	Fast spiking cells in rat hippocampus (CA1 region) contain the calcium-binding protein parvalbumin. <i>Brain Research</i> , 1987, 416, 369-374.	2.2	476
10	Parvalbumin, somatostatin and cholecystokinin as chemical markers for specific GABAergic interneuron types in the rat frontal cortex. <i>Journal of Neurocytology</i> , 2002, 31, 277-287.	1.5	366
11	Intracellular recording of identified neostriatal patch and matrix spiny cells in a slice preparation preserving cortical inputs. <i>Journal of Neurophysiology</i> , 1989, 62, 1052-1068.	1.8	350
12	Physiological and morphological identification of somatostatin- or vasoactive intestinal polypeptide-containing cells among GABAergic cell subtypes in rat frontal cortex. <i>Journal of Neuroscience</i> , 1996, 16, 2701-2715.	3.6	336
13	Groupings of nonpyramidal and pyramidal cells with specific physiological and morphological characteristics in rat frontal cortex. <i>Journal of Neurophysiology</i> , 1993, 69, 416-431.	1.8	330
14	Neurochemical features and synaptic connections of large physiologically-identified GABAergic cells in the rat frontal cortex. <i>Neuroscience</i> , 1998, 85, 677-701.	2.3	264
15	Recurrent Connection Patterns of Corticostriatal Pyramidal Cells in Frontal Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 4394-4405.	3.6	257
16	Neostriatal cell subtypes and their functional roles. <i>Neuroscience Research</i> , 1997, 27, 1-8.	1.9	234
17	Selective Cholinergic Modulation of Cortical GABAergic Cell Subtypes. <i>Journal of Neurophysiology</i> , 1997, 78, 1743-1747.	1.8	218
18	Quantitative Chemical Composition of Cortical GABAergic Neurons Revealed in Transgenic Venus-Expressing Rats. <i>Cerebral Cortex</i> , 2008, 18, 315-330.	2.9	214

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19	Selective Coexpression of Multiple Chemical Markers Defines Discrete Populations of Neocortical GABAergic Neurons. <i>Cerebral Cortex</i> , 2011, 21, 1803-1817.	2.9	209
20	Noradrenergic Excitation and Inhibition of GABAergic Cell Types in Rat Frontal Cortex. <i>Journal of Neuroscience</i> , 1998, 18, 6963-6976.	3.6	205
21	Axon Branching and Synaptic Bouton Phenotypes in GABAergic Nonpyramidal Cell Subtypes. <i>Journal of Neuroscience</i> , 2004, 24, 2853-2865.	3.6	180
22	Heterogeneity of Phasic Cholinergic Signaling in Neocortical Neurons. <i>Journal of Neurophysiology</i> , 2007, 97, 2215-2229.	1.8	176
23	Serotonin Modulates Fast-Spiking Interneuron and Synchronous Activity in the Rat Prefrontal Cortex through 5-HT _{1A} and 5-HT _{2A} Receptors. <i>Journal of Neuroscience</i> , 2010, 30, 2211-2222.	3.6	172
24	Large aspiny cells in the matrix of the rat neostriatum in vitro: physiological identification, relation to the compartments and excitatory postsynaptic currents. <i>Journal of Neurophysiology</i> , 1992, 67, 1669-1682.	1.8	171
25	Neocortical Inhibitory Terminals Innervate Dendritic Spines Targeted by Thalamocortical Afferents. <i>Journal of Neuroscience</i> , 2007, 27, 1139-1150.	3.6	154
26	Neostriatal GABAergic interneurons contain NOS, calretinin or parvalbumin. <i>NeuroReport</i> , 1993, 5, 205-208.	1.2	150
27	Highly Differentiated Projection-Specific Cortical Subnetworks. <i>Journal of Neuroscience</i> , 2011, 31, 10380-10391.	3.6	144
28	Dopamine D ₁ -Like Receptor Activation Excites Rat Striatal Large Aspiny Neurons <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 1998, 18, 5180-5190.	3.6	140
29	Dependence of GABAergic Synaptic Areas on the Interneuron Type and Target Size. <i>Journal of Neuroscience</i> , 2000, 20, 375-386.	3.6	136
30	Monitoring and Updating of Action Selection for Goal-Directed Behavior through the Striatal Direct and Indirect Pathways. <i>Neuron</i> , 2018, 99, 1302-1314.e5.	8.1	131
31	Receptor subtypes involved in callosally-induced postsynaptic potentials in rat frontal agranular cortex in vitro. <i>Experimental Brain Research</i> , 1992, 88, 33-40.	1.5	130
32	The Diversity of Cortical Inhibitory Synapses. <i>Frontiers in Neural Circuits</i> , 2016, 10, 27.	2.8	115
33	Physiological heterogeneity of nonpyramidal cells in rat hippocampal CA1 region. <i>Experimental Brain Research</i> , 1988, 72, 494-502.	1.5	114
34	Spatial distributions of chemically identified intrinsic neurons in relation to patch and matrix compartments of rat neostriatum. <i>Journal of Comparative Neurology</i> , 1993, 332, 499-513.	1.6	102
35	Dendritic Branch Typing and Spine Expression Patterns in Cortical Nonpyramidal Cells. <i>Cerebral Cortex</i> , 2006, 16, 696-711.	2.9	102
36	Two subtypes of non-pyramidal cells in rat hippocampal formation identified by intracellular recording and HRP injection. <i>Brain Research</i> , 1987, 411, 190-195.	2.2	96

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37	Distinct Firing Patterns of Neuronal Subtypes in Cortical Synchronized Activities. <i>Journal of Neuroscience</i> , 2001, 21, 7261-7272.	3.6	95
38	Cortical Inhibitory Cell Types Differentially Form Intralaminar and Interlaminar Subnetworks with Excitatory Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 10533-10540.	3.6	91
39	Two distinct activity patterns of fast-spiking interneurons during neocortical UP states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8428-8433.	7.1	90
40	Two distinct subgroups of cholecystokinin-immunoreactive cortical interneurons. <i>Brain Research</i> , 1997, 752, 175-183.	2.2	85
41	Actions of Substance P on Rat Neostriatal Neurons <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 1996, 16, 5141-5153.	3.6	81
42	Fast-spiking non-pyramidal cells in the hippocampal CA3 region, dentate gyrus and subiculum of rats. <i>Brain Research</i> , 1987, 425, 351-355.	2.2	79
43	Firing-Pattern-Dependent Specificity of Cortical Excitatory Feed-Forward Subnetworks. <i>Journal of Neuroscience</i> , 2008, 28, 11186-11195.	3.6	78
44	Pyramidal Cell Subtypes and Their Synaptic Connections in Layer 5 of Rat Frontal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 5755-5771.	2.9	76
45	Reinforcement learning: computing the temporal difference of values via distinct corticostriatal pathways. <i>Trends in Neurosciences</i> , 2012, 35, 457-467.	8.6	71
46	Cell Diversity and Connection Specificity between Callosal Projection Neurons in the Frontal Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 3862-3870.	3.6	70
47	Functional effects of distinct innervation styles of pyramidal cells by fast spiking cortical interneurons. <i>ELife</i> , 2015, 4, .	6.0	68
48	Multiple Layer 5 Pyramidal Cell Subtypes Relay Cortical Feedback from Secondary to Primary Motor Areas in Rats. <i>Cerebral Cortex</i> , 2014, 24, 2362-2376.	2.9	67
49	Specialized Cortical Subnetworks Differentially Connect Frontal Cortex to Parahippocampal Areas. <i>Journal of Neuroscience</i> , 2012, 32, 1898-1913.	3.6	66
50	Thalamocortical Axonal Activity in Motor Cortex Exhibits Layer-Specific Dynamics during Motor Learning. <i>Neuron</i> , 2018, 100, 244-258.e12.	8.1	63
51	New neurons use Slit-Robo signaling to migrate through the glial meshwork and approach a lesion for functional regeneration. <i>Science Advances</i> , 2018, 4, eaav0618.	10.3	60
52	Large Volume Electron Microscopy and Neural Microcircuit Analysis. <i>Frontiers in Neural Circuits</i> , 2018, 12, 98.	2.8	56
53	Conserved properties of dendritic trees in four cortical interneuron subtypes. <i>Scientific Reports</i> , 2011, 1, 89.	3.3	55
54	A carbon nanotube tape for serial-section electron microscopy of brain ultrastructure. <i>Nature Communications</i> , 2018, 9, 437.	12.8	53

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55	Dopaminergic Control of Motivation and Reinforcement Learning: A Closed-Circuit Account for Reward-Oriented Behavior. <i>Journal of Neuroscience</i> , 2013, 33, 8866-8890.	3.6	49
56	Two groups of secondary vestibular neurons mediating horizontal canal signals, probably to the ipsilateral medial rectus muscle, under inhibitory influences from the cerebellar flocculus in rabbits. <i>Neuroscience Research</i> , 1985, 2, 434-446.	1.9	48
57	Differentiated Participation of Thalamocortical Subnetworks in Slow/Spindle Waves and Desynchronization. <i>Journal of Neuroscience</i> , 2012, 32, 1730-1746.	3.6	46
58	Evidence of a collateralized climbing fiber projection from the inferior olive to the flocculus and vestibular nuclei in rabbits. <i>Neuroscience Letters</i> , 1981, 22, 23-29.	2.1	44
59	Direction- and distance-dependent interareal connectivity of pyramidal cell subpopulations in the rat frontal cortex. <i>Frontiers in Neural Circuits</i> , 2013, 7, 164.	2.8	42
60	Phasic cholinergic signaling in the hippocampus: Functional homology with the neocortex?. <i>Hippocampus</i> , 2007, 17, 327-332.	1.9	41
61	Segregated Excitatoryâ€“Inhibitory Recurrent Subnetworks in Layer 5 of the Rat Frontal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 5846-5857.	2.9	36
62	Selective Thalamic Innervation of Rat Frontal Cortical Neurons. <i>Cerebral Cortex</i> , 2016, 26, 2689-2704.	2.9	31
63	Important factors for the three-dimensional reconstruction of neuronal structures from serial ultrathin sections. <i>Frontiers in Neural Circuits</i> , 2009, 3, 4.	2.8	30
64	Common excitatory synaptic inputs to electrically connected cortical fast-spiking cell networks. <i>Journal of Neurophysiology</i> , 2013, 110, 795-806.	1.8	29
65	The morphological and chemical characteristics of striatal neurons immunoreactive for the β 1-subunit of the GABAA receptor in the rat. <i>Neuroscience</i> , 1997, 80, 775-792.	2.3	27
66	Slow synchronized bursts of inhibitory postsynaptic currents (0.1â€“0.3 Hz) by cholinergic stimulation in the rat frontal cortex in vitro. <i>Neuroscience</i> , 2001, 107, 551-560.	2.3	26
67	Comment on â€œPrinciples of connectivity among morphologically defined cell types in adult neocortexâ€“. <i>Science</i> , 2016, 353, 1108-1108.	12.6	24
68	Temporal Structure of Neuronal Activity among Cortical Neuron Subtypes during Slow Oscillations in Anesthetized Rats. <i>Journal of Neuroscience</i> , 2015, 35, 11988-12001.	3.6	20
69	Semaphorin 6Aâ€“Plexin A2/A4 Interactions with Radial Glia Regulate Migration Termination of Superficial Layer Cortical Neurons. <i>IScience</i> , 2019, 21, 359-374.	4.1	20
70	Excitatory effects on renal sympathetic nerve activity induced by stimulation at two distinctive sites in the fastigial nucleus of rabbits. <i>Brain Research</i> , 1984, 304, 372-376.	2.2	18
71	Cortical Divergent Projections in Mice Originate from Two Sequentially Generated, Distinct Populations of Excitatory Cortical Neurons with Different Initial Axonal Outgrowth Characteristics. <i>Cerebral Cortex</i> , 2016, 26, 2257-2270.	2.9	18
72	Control of excitatory hierarchical circuits by parvalbumin-FS basket cells in layer 5 of the frontal cortex: insights for cortical oscillations. <i>Journal of Neurophysiology</i> , 2019, 121, 2222-2236.	1.8	15

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73	A Dual Role Hypothesis of the Cortico-Basal-Ganglia Pathways: Opponency and Temporal Difference Through Dopamine and Adenosine. <i>Frontiers in Neural Circuits</i> , 2018, 12, 111.	2.8	13
74	Electrophysiological characteristics of inhibitory neurons of the prepositus hypoglossi nucleus as analyzed in Venus-expressing transgenic rats. <i>Neuroscience</i> , 2011, 197, 89-98.	2.3	12
75	Computing reward prediction error: an integrated account of cortical timing and basal ganglia pathways for appetitive and aversive learning. <i>European Journal of Neuroscience</i> , 2015, 42, 2003-2021.	2.6	12
76	Differential Striatal Axonal Arborizations of the Intratelencephalic and Pyramidal-Tract Neurons: Analysis of the Data in the MouseLight Database. <i>Frontiers in Neural Circuits</i> , 2019, 13, 71.	2.8	12
77	Pyramidal cell subtype-dependent cortical oscillatory activity regulates motor learning. <i>Communications Biology</i> , 2021, 4, 495.	4.4	11
78	Ipsi- and contralateral corticocortical projection-dependent subcircuits in layer 2 of the rat frontal cortex. <i>Journal of Neurophysiology</i> , 2019, 122, 1461-1472.	1.8	9
79	Local Circuit Neurons in the Frontal Cortex and the Neostriatum. , 1995, , 73-88.		7
80	Local Circuit Neurons in the Frontal Cortico-Striatal System. , 2003, , 125-148.		4
81	Corticocortical innervation subtypes of layer 5 intratelencephalic cells in the murine secondary motor cortex. <i>Cerebral Cortex</i> , 2022, 33, 50-67.	2.9	3
82	Neural circuits: Japan. <i>Frontiers in Neural Circuits</i> , 2014, 8, 135.	2.8	1
83	Hierarchical Organization of Neocortical Neuron Types. , 2013, , 181-202.		1
84	Cerebral Cortex: Inhibitory Cells. , 2009, , 775-783.		0
85	Functional Significance of Rall's Power of Three Halves Law in Cortical Nonpyramidal Cells. , 2013, , 45-51.		0
86	Substance P Excites Large Aspiny Neurons of the Rat Neostriatum. <i>Advances in Behavioral Biology</i> , 1996, , 151-156.	0.2	0
87	Cortical GABAergic Neural Circuits.. <i>The Brain & Neural Networks</i> , 1998, 5, 171-177.	0.1	0
88	Interaction between Neuron and Radial Glia Mediated by Semaphorin 6A-Plexin A2/A4 Signaling Regulates Migration Termination of Superficial Layer Neurons of the Cerebral Cortex. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0