

Karl Kandler

List of Publications by Year in descending order

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65
papers

3,897
citations

136740

32
h-index

149479

56
g-index

67
all docs

67
docs citations

67
times ranked

3021
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensorineural Deafness and Seizures in Mice Lacking Vesicular Glutamate Transporter 3. <i>Neuron</i> , 2008, 57, 263-275.	3.8	340
2	Pre- and postnatal development of efferent connections of the cochlear nucleus in the rat. <i>Journal of Comparative Neurology</i> , 1993, 328, 161-184.	0.9	267
3	Tonotopic reorganization of developing auditory brainstem circuits. <i>Nature Neuroscience</i> , 2009, 12, 711-717.	7.1	223
4	Elimination and strengthening of glycinergic/GABAergic connections during tonotopic map formation. <i>Nature Neuroscience</i> , 2003, 6, 282-290.	7.1	222
5	Patterns of excitation and inhibition evoked by horizontal connections in visual cortex share a common relationship to orientation columns. <i>Neuron</i> , 1995, 15, 541-552.	3.8	216
6	Inhibitory synapses in the developing auditory system are glutamatergic. <i>Nature Neuroscience</i> , 2005, 8, 332-338.	7.1	201
7	The Precise Temporal Pattern of Prehearing Spontaneous Activity Is Necessary for Tonotopic Map Refinement. <i>Neuron</i> , 2014, 82, 822-835.	3.8	198
8	Neuronal coupling and uncoupling in the developing nervous system. <i>Current Opinion in Neurobiology</i> , 1995, 5, 98-105.	2.0	175
9	Coordination of Neuronal Activity in Developing Visual Cortex by Gap Junction-Mediated Biochemical Communication. <i>Journal of Neuroscience</i> , 1998, 18, 1419-1427.	1.7	174
10	Glutamate co-release at GABA/glycinergic synapses is crucial for the refinement of an inhibitory map. <i>Nature Neuroscience</i> , 2010, 13, 232-238.	7.1	156
11	KCC2 expression in immature rat cortical neurons is sufficient to switch the polarity of GABA responses. <i>European Journal of Neuroscience</i> , 2005, 21, 2593-2599.	1.2	109
12	Auditory projections from the cochlear nucleus to pontine and mesencephalic reticular nuclei in the rat. <i>Brain Research</i> , 1991, 562, 230-242.	1.1	102
13	Focal photolysis of caged glutamate produces long-term depression of hippocampal glutamate receptors. <i>Nature Neuroscience</i> , 1998, 1, 119-123.	7.1	99
14	Activity-dependent organization of inhibitory circuits: lessons from the auditory system. <i>Current Opinion in Neurobiology</i> , 2004, 14, 96-104.	2.0	95
15	Developmental refinement of inhibitory sound-localization circuits. <i>Trends in Neurosciences</i> , 2005, 28, 290-296.	4.2	95
16	New Phototriggers: Extending the p-Hydroxyphenacyl π - π^* Absorption Range. <i>Organic Letters</i> , 2000, 2, 1545-1547.	2.4	82
17	Development of Electrical Membrane Properties and Discharge Characteristics of Superior Olivary Complex Neurons in Fetal and Postnatal Rats. <i>European Journal of Neuroscience</i> , 1995, 7, 1773-1790.	1.2	65
18	Glycinergic and GABAergic calcium responses in the developing lateral superior olive. <i>European Journal of Neuroscience</i> , 2002, 15, 1093-1104.	1.2	64

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19	Auditory projections to the inferior colliculus of the rat are present by birth. <i>Neuroscience Letters</i> , 1990, 120, 58-61.	1.0	62
20	Noise Trauma-Induced Behavioral Gap Detection Deficits Correlate with Reorganization of Excitatory and Inhibitory Local Circuits in the Inferior Colliculus and Are Prevented by Acoustic Enrichment. <i>Journal of Neuroscience</i> , 2017, 37, 6314-6330.	1.7	62
21	Intracellular zinc inhibits KCC2 transporter activity. <i>Nature Neuroscience</i> , 2009, 12, 725-727.	7.1	59
22	Microglia induce neurotoxicity via intraneuronal Zn ²⁺ release and a K ⁺ current surge. <i>Glia</i> , 2008, 56, 89-96.	2.5	54
23	Protein kinase C regulation of neuronal zinc signaling mediates survival during preconditioning. <i>Journal of Neurochemistry</i> , 2009, 110, 106-117.	2.1	53
24	SNARE-dependent upregulation of potassium chloride co-transporter 2 activity after metabotropic zinc receptor activation in rat cortical neurons in vitro. <i>Neuroscience</i> , 2012, 210, 38-46.	1.1	50
25	Synaptic changes underlying the strengthening of GABA/glycinergic connections in the developing lateral superior olive. <i>Neuroscience</i> , 2010, 171, 924-933.	1.1	44
26	Development of Intrinsic Connectivity in the Central Nucleus of the Mouse Inferior Colliculus. <i>Journal of Neuroscience</i> , 2014, 34, 15032-15046.	1.7	40
27	Mice Lacking the Alpha9 Subunit of the Nicotinic Acetylcholine Receptor Exhibit Deficits in Frequency Difference Limens and Sound Localization. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 167.	1.8	40
28	Glycinergic/GABAergic synapses in the lateral superior olive are excitatory in neonatal C57Bl/6J mice. <i>Developmental Brain Research</i> , 2001, 131, 143-147.	2.1	39
29	Glutamatergic Calcium Responses in the Developing Lateral Superior Olive: Receptor Types and Their Specific Activation by Synaptic Activity Patterns. <i>Journal of Neurophysiology</i> , 2003, 90, 2581-2591.	0.9	38
30	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4-[[[(2H-1-Benzopyran-2-one-7-amino-4-methoxy) carbonyl] amino] Butanoic Acid. <i>Photochemistry and Photobiology</i> , 2005, 81, 641.	1.3	37
31	Enhancement of NMDA receptor-mediated currents by light in rat neurones in vitro. <i>Journal of Physiology</i> , 2000, 524, 365-374.	1.3	34
32	Relationship between Dye Coupling and Spontaneous Activity in Developing Ferret Visual Cortex. <i>Developmental Neuroscience</i> , 1998, 20, 59-64.	1.0	32
33	Competing Pathways in the Photo-Favorskii Rearrangement and Release of Esters: Studies on Fluorinated <i>p</i> -Hydroxyphenacyl-Caged GABA and Glutamate Phototriggers. <i>Journal of Organic Chemistry</i> , 2009, 74, 5219-5227.	1.7	32
34	An acoustic startle-based method of assessing frequency discrimination in mice. <i>Journal of Neuroscience Methods</i> , 2011, 200, 63-67.	1.3	27
35	Somatotopic organization of rat thalamocortical slices. <i>Journal of Neuroscience Methods</i> , 2002, 119, 15-21.	1.3	25
36	Outer Hair Cell Glutamate Signaling through Type II Spiral Ganglion Afferents Activates Neurons in the Cochlear Nucleus in Response to Nondamaging Sounds. <i>Journal of Neuroscience</i> , 2021, 41, 2930-2943.	1.7	25

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37	Metabotropic Glutamate Receptors in the Lateral Superior Olive Activate TRP-Like Channels: Age- and Experience-Dependent Regulation. <i>Journal of Neurophysiology</i> , 2007, 97, 3365-3375.	0.9	23
38	Dendritic Ca ²⁺ responses in neonatal lateral superior olive neurons elicited by glycinergic/GABAergic synapses and action potentials. <i>Neuroscience</i> , 2008, 154, 338-345.	1.1	22
39	Excitation by Axon Terminal GABA Spillover in a Sound Localization Circuit. <i>Journal of Neuroscience</i> , 2016, 36, 911-925.	1.7	21
40	Excitatory action of an immature glycinergic/GABAergic sound localization pathway. <i>Physiology and Behavior</i> , 2002, 77, 583-587.	1.0	17
41	Role of GluA3 AMPA Receptor Subunits in the Presynaptic and Postsynaptic Maturation of Synaptic Transmission and Plasticity of Endbulbâ€”Bushy Cell Synapses in the Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2020, 40, 2471-2484.	1.7	17
42	Coordination of neuronal activity by gap junctions in the developing neocortex. <i>Seminars in Cell and Developmental Biology</i> , 1997, 8, 43-51.	2.3	16
43	Flipping the switch from electrical to chemical communication. <i>Nature Neuroscience</i> , 2005, 8, 1633-1634.	7.1	14
44	Cell Birth, Formation of Efferent Connections, and Establishment of Tonotopic Order in the Rat Cochlear Nucleus. , 1993, , 19-28.		12
45	Stimulus control of predatory attack in the brown tree snake (<i>Boiga irregularis</i>). <i>Amphibia - Reptilia</i> , 1988, 9, 77-88.	0.1	11
46	Changing tune in auditory cortex. <i>Nature Neuroscience</i> , 2010, 13, 271-273.	7.1	11
47	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4-[[[(2H-1-Benzopyran-2-one-7-amino-4-methoxy) carbonyl] amino] Butanoic Acid. <i>Photochemistry and Photobiology</i> , 2004, 81, 641-8.	1.3	10
48	Control of Cellular Activity. , 2005, , 155-251.		9
49	Targeted single-neuron infection with rabies virus for transneuronal multisynaptic tracing. <i>Journal of Neuroscience Methods</i> , 2012, 209, 367-370.	1.3	9
50	Hyperpolarization-independent maturation and refinement of GABA/glycinergic connections in the auditory brain stem. <i>Journal of Neurophysiology</i> , 2016, 115, 1170-1182.	0.9	9
51	Long-term potentiation of glycinergic synapses by semi-natural stimulation patterns during tonotopic map refinement. <i>Scientific Reports</i> , 2020, 10, 16899.	1.6	9
52	An Optical Fiber-Based Uncaging System. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top072900.	0.2	8
53	NMDAR-mediated calcium transients elicited by glutamate co-release at developing inhibitory synapses. <i>Frontiers in Synaptic Neuroscience</i> , 2010, 2, 27.	1.3	7
54	Cannabinoid receptor expression at the MNTB-LSO synapse in developing rats. <i>Neuroscience Letters</i> , 2012, 509, 96-100.	1.0	7

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55	Strike-induced chemosensory searching in rattlesnakes: A rodent specialist (<i>Crotalus viridis</i>) differs from a lizard specialist (<i>Crotalus pricei</i>). <i>Bulletin of the Psychonomic Society</i> , 1987, 25, 136-138.	0.2	6
56	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4-[[[(2H-1-Benzopyran-2-one-7-amino-4-methoxy) carbonyl] amino] Butanoic Acid ^{1.3} . <i>Photochemistry and Photobiology</i> , 2005, 81, 641-648.	1.3	6
57	Paired recordings from distant inhibitory neuron pairs by a sequential scanning approach. <i>Journal of Neuroscience Methods</i> , 2011, 200, 185-189.	1.3	6
58	The Superior Olivary Complex. , 2020, , 533-555.		5
59	Inhibitory and Excitatory Brainstem Connections Involved in Sound Localization: How do they Develop?. , 1997, , 181-191.		2
60	Effects of novel chemical cues on predatory responses of rodent-specializing rattlesnakes. <i>Bulletin of the Psychonomic Society</i> , 1988, 26, 580-582.	0.2	1
61	Development of Mammalian Primary Sound Localization Circuits. , 2014, , 249-285.		1
62	GABA, Glycine, and Glutamate Co-Release at Developing Inhibitory Synapses. , 2009, , 1-26.		1
63	Mapping Auditory Synaptic Circuits with Photostimulation of Caged Glutamate. <i>Methods in Molecular Biology</i> , 2016, 1427, 525-537.	0.4	0
64	And the Band Keeps Marching On. <i>Neuron</i> , 2018, 99, 427-429.	3.8	0
65	Embryonic medial ganglionic eminence cells survive and integrate into the inferior colliculus of adult mice. <i>Hearing Research</i> , 2022, , 108520.	0.9	0