Karl Kandler

List of Publications by Year
in descending order

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	Embryonic medial ganglionic eminence cells survive and integrate into the inferior colliculus of adult mice. Hearing Research, 2022, , 108520.	0.9	0
2	Outer Hair Cell Glutamate Signaling through Type II Spiral Ganglion Afferents Activates Neurons in the Cochlear Nucleus in Response to Nondamaging Sounds. Journal of Neuroscience, 2021, 41, 2930-2943.	1.7	25
3	Long-term potentiation of glycinergic synapses by semi-natural stimulation patterns during tonotopic map refinement. Scientific Reports, 2020, 10, 16899.	1.6	9
4	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. Journal of Neuroscience, 2020, 40, 2471-2484.	1.7	17
5	The Superior Olivary Complex. , 2020, , 533-555.		5
6	And the Band Keeps Marching On. Neuron, 2018, 99, 427-429.	3.8	0
7	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. Journal of Neuroscience, 2017, 37, 6314-6330.	1.7	62
8	Mice Lacking the Alpha9 Subunit of the Nicotinic Acetylcholine Receptor Exhibit Deficits in Frequency Difference Limens and Sound Localization. Frontiers in Cellular Neuroscience, 2017, 11, 167.	1.8	40
9	Hyperpolarization-independent maturation and refinement of GABA/glycinergic connections in the auditory brain stem. Journal of Neurophysiology, 2016, 115, 1170-1182.	0.9	9
10	Mapping Auditory Synaptic Circuits with Photostimulation of Caged Glutamate. Methods in Molecular Biology, 2016, 1427, 525-537.	0.4	0
11	Excitation by Axon Terminal GABA Spillover in a Sound Localization Circuit. Journal of Neuroscience, 2016, 36, 911-925.	1.7	21
12	Development of Mammalian Primary Sound Localization Circuits. , 2014, , 249-285.		1
13	Development of Intrinsic Connectivity in the Central Nucleus of the Mouse Inferior Colliculus. Journal of Neuroscience, 2014, 34, 15032-15046.	1.7	40
14	The Precise Temporal Pattern of Prehearing Spontaneous Activity Is Necessary for Tonotopic Map Refinement. Neuron, 2014, 82, 822-835.	3.8	198
15	An Optical Fiber-Based Uncaging System. Cold Spring Harbor Protocols, 2013, 2013, pdb.top072900.	0.2	8
16	SNARE-dependent upregulation of potassium chloride co-transporter 2 activity after metabotropic zinc receptor activation in rat cortical neurons in vitro. Neuroscience, 2012, 210, 38-46.	1.1	50
17	Targeted single-neuron infection with rabies virus for transneuronal multisynaptic tracing. Journal of Neuroscience Methods, 2012, 209, 367-370.	1.3	9
18	Cannabinoid receptor expression at the MNTB-LSO synapse in developing rats. Neuroscience Letters, 2012, 509, 96-100.	1.0	7

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19	Paired recordings from distant inhibitory neuron pairs by a sequential scanning approach. Journal of Neuroscience Methods, 2011, 200, 185-189.	1.3	6
20	An acoustic startle-based method of assessing frequency discrimination in mice. Journal of Neuroscience Methods, 2011, 200, 63-67.	1.3	27
21	Glutamate co-release at GABA/glycinergic synapses is crucial for the refinement of an inhibitory map. Nature Neuroscience, 2010, 13, 232-238.	7.1	156
22	Changing tune in auditory cortex. Nature Neuroscience, 2010, 13, 271-273.	7.1	11
23	NMDAR-mediated calcium transients elicited by glutamate co-release at developing inhibitory synapses. Frontiers in Synaptic Neuroscience, 2010, 2, 27.	1.3	7
24	Synaptic changes underlying the strengthening of GABA/glycinergic connections in the developing lateral superior olive. Neuroscience, 2010, 171, 924-933.	1.1	44
25	Intracellular zinc inhibits KCC2 transporter activity. Nature Neuroscience, 2009, 12, 725-727.	7.1	59
26	Tonotopic reorganization of developing auditory brainstem circuits. Nature Neuroscience, 2009, 12, 711-717.	7.1	223
27	Protein kinase C regulation of neuronal zinc signaling mediates survival during preconditioning. Journal of Neurochemistry, 2009, 110, 106-117.	2.1	53
28	Competing Pathways in the Photo-Favorskii Rearrangement and Release of Esters: Studies on Fluorinated p-Hydroxyphenacyl-Caged GABA and Glutamate Phototriggers. Journal of Organic Chemistry, 2009, 74, 5219-5227.	1.7	32
29	GABA, Glycine, and Glutamate Co-Release at Developing Inhibitory Synapses. , 2009, , 1-26.		1
30	Microglia induce neurotoxicity via intraneuronal Zn²⁺ release and a K⁺ current surge. Glia, 2008, 56, 89-96.	2.5	54
31	Sensorineural Deafness and Seizures in Mice Lacking Vesicular Glutamate Transporter 3. Neuron, 2008, 57, 263-275.	3.8	340
32	Dendritic Ca2+ responses in neonatal lateral superior olive neurons elicited by glycinergic/GABAergic synapses and action potentials. Neuroscience, 2008, 154, 338-345.	1.1	22
33	Metabotropic Glutamate Receptors in the Lateral Superior Olive Activate TRP-Like Channels: Age- and Experience-Dependent Regulation. Journal of Neurophysiology, 2007, 97, 3365-3375.	0.9	23
34	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4-[[(2H-1-Benzopyran-2-one-7-amino-4-methoxy) carbonyl] amino] Butanoic AcidÂ¶. Photochemistry and Photobiology, 2005, 81, 641.	1.3	37
35	KCC2 expression in immature rat cortical neurons is sufficient to switch the polarity of GABA responses. European Journal of Neuroscience, 2005, 21, 2593-2599.	1.2	109
36	Flipping the switch from electrical to chemical communication. Nature Neuroscience, 2005, 8, 1633-1634.	7.1	14

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37	Inhibitory synapses in the developing auditory system are glutamatergic. Nature Neuroscience, 2005, 8, 332-338.	7.1	201
38	Control of Cellular Activity. , 2005, , 155-251.		9
39	Developmental refinement of inhibitory sound-localization circuits. Trends in Neurosciences, 2005, 28, 290-296.	4.2	95
40	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4â€[(2Hâ€1â€Benzopyranâ€2â€oneâ€7â€aminoâ€4â€methoxy) carbonyl] amino] Butanoic Acid^{Â¶}. Photochemistry and Photobiology, 2005, 81, 641-648.	1.3	6
41	Activity-dependent organization of inhibitory circuits: lessons from the auditory system. Current Opinion in Neurobiology, 2004, 14, 96-104.	2.0	95
42	Synthesis, Photophysical, Photochemical and Biological Properties of Caged GABA, 4-[[(2H-1-Benzopyran-2-one-7-amino-4-methoxy) carbonyl] amino] Butanoic Acid. Photochemistry and Photobiology, 2004, 81, 641-8.	1.3	10
43	Elimination and strengthening of glycinergic/GABAergic connections during tonotopic map formation. Nature Neuroscience, 2003, 6, 282-290.	7.1	222
44	Glutamatergic Calcium Responses in the Developing Lateral Superior Olive: Receptor Types and Their Specific Activation by Synaptic Activity Patterns. Journal of Neurophysiology, 2003, 90, 2581-2591.	0.9	38
45	Excitatory action of an immature glycinergic/GABAergic sound localization pathway. Physiology and Behavior, 2002, 77, 583-587.	1.0	17
46	Glycinergic and GABAergic calcium responses in the developing lateral superior olive. European Journal of Neuroscience, 2002, 15, 1093-1104.	1.2	64
47	Somatotopic organization of rat thalamocortical slices. Journal of Neuroscience Methods, 2002, 119, 15-21.	1.3	25
48	Glycinergic/GABAergic synapses in the lateral superior olive are excitatory in neonatal C57Bl/6J mice. Developmental Brain Research, 2001, 131, 143-147.	2.1	39
49	Enhancement of NMDA receptorâ€mediated currents by light in rat neurones in vitro. Journal of Physiology, 2000, 524, 365-374.	1.3	34
50	New Phototriggers:1Extending thep-Hydroxyphenacyl Ï€âˆ—Ï€* Absorption Range. Organic Letters, 2000, 2, 1545-1547.	2.4	82
51	Focal photolysis of caged glutamate produces long-term depression of hippocampal glutamate receptors. Nature Neuroscience, 1998, 1, 119-123.	7.1	99
52	Relationship between Dye Coupling and Spontaneous Activity in Developing Ferret Visual Cortex. Developmental Neuroscience, 1998, 20, 59-64.	1.0	32
53	Coordination of Neuronal Activity in Developing Visual Cortex by Gap Junction-Mediated Biochemical Communication. Journal of Neuroscience, 1998, 18, 1419-1427.	1.7	174
54	Coordination of neuronal activity by gap junctions in the developing neocortex. Seminars in Cell and Developmental Biology, 1997, 8, 43-51.	2.3	16

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55	Inhibitory and Excitatory Brainstem Connections Involved in Sound Localization: How do they Develop?. , 1997, , 181-191.		2
56	Development of Electrical Membrane Properties and Discharge Characteristics of Superior Olivary Complex Neurons in Fetal and Postnatal Rats. European Journal of Neuroscience, 1995, 7, 1773-1790.	1.2	65
57	Patterns of excitation and inhibition evoked by horizontal connections in visual cortex share a common relationship to orientation columns. Neuron, 1995, 15, 541-552.	3.8	216
58	Neuronal coupling and uncoupling in the developing nervous system. Current Opinion in Neurobiology, 1995, 5, 98-105.	2.0	175
59	Pre- and postnatal development of efferent connections of the cochlear nucleus in the rat. Journal of Comparative Neurology, 1993, 328, 161-184.	0.9	267
60	Cell Birth, Formation of Efferent Connections, and Establishment of Tonotopic Order in the Rat Cochlear Nucleus. , 1993, , 19-28.		12
61	Auditory projections from the cochlear nucleus to pontine and mesencephalic reticular nuclei in the rat. Brain Research, 1991, 562, 230-242.	1.1	102
62	Auditory projections to the inferior colliculus of the rat are present by birth. Neuroscience Letters, 1990, 120, 58-61.	1.0	62
63	Effects of novel chemical cues on predatory responses of rodent-specializing rattlesnakes. Bulletin of the Psychonomic Society, 1988, 26, 580-582.	0.2	1
64	Stimulus control of predatory attack in the brown tree snake (Boiga irregularis). Amphibia - Reptilia, 1988, 9, 77-88.	0.1	11
65	Strike-induced chemosensory searching in rattlesnakes: A rodent specialist (Crotalus viridis) differs from a lizard specialist (Crotalus pricei). Bulletin of the Psychonomic Society, 1987, 25, 136-138.	0.2	6