

Oliver Kann

List of Publications by Year in descending order

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62
papers

4,734
citations

117571

34
h-index

143943

57
g-index

63
all docs

63
docs citations

63
times ranked

6447
citing authors

#	ARTICLE	IF	CITATIONS
1	Priming of microglia by type II interferon is lasting and resistant to modulation by interleukin-10 in situ. <i>Journal of Neuroimmunology</i> , 2022, 368, 577881.	1.1	3
2	Microglia and lipids: how metabolism controls brain innate immunity. <i>Seminars in Cell and Developmental Biology</i> , 2021, 112, 137-144.	2.3	75
3	TLR2- and TLR3-activated microglia induce different levels of neuronal network dysfunction in a context-dependent manner. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 80-91.	2.0	32
4	The mitochondrial calcium uniporter is crucial for the generation of fast cortical network rhythms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2225-2239.	2.4	20
5	Mild metabolic stress is sufficient to disturb the formation of pyramidal cell ensembles during gamma oscillations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2401-2415.	2.4	11
6	Lactate Attenuates Synaptic Transmission and Affects Brain Rhythms Featuring High Energy Expenditure. <i>IScience</i> , 2020, 23, 101316.	1.9	33
7	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 609-633.	21.5	441
8	GM-CSF induces noninflammatory proliferation of microglia and disturbs electrical neuronal network rhythms in situ. <i>Journal of Neuroinflammation</i> , 2020, 17, 235.	3.1	34
9	Neuronal gamma oscillations and activity-dependent potassium transients remain regular after depletion of microglia in postnatal cortex tissue. <i>Journal of Neuroscience Research</i> , 2020, 98, 1953-1967.	1.3	8
10	Selective inhibition of mitochondrial respiratory complexes controls the transition of microglia into a neurotoxic phenotype in situ. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 802-814.	2.0	36
11	Persistent increase in ventral hippocampal long-term potentiation by juvenile stress: A role for astrocytic glutamine synthetase. <i>Glia</i> , 2019, 67, 2279-2293.	2.5	10
12	Priming of microglia with IFN- β slows neuronal gamma oscillations in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4637-4642.	3.3	87
13	Early alterations in hippocampal perisomatic GABAergic synapses and network oscillations in a mouse model of Alzheimer's disease amyloidosis. <i>PLoS ONE</i> , 2019, 14, e0209228.	1.1	66
14	Local oxygen homeostasis during various neuronal network activity states in the mouse hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 859-873.	2.4	26
15	astrocytic glutamine synthetase is expressed in the neuronal somatic layers and downregulated proportionally to neuronal loss in the human epileptic hippocampus. <i>Glia</i> , 2018, 66, 920-933.	2.5	27
16	Metabolic modulation of neuronal gamma-band oscillations. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1377-1389.	1.3	10
17	Possible neurotoxicity of the anesthetic propofol: evidence for the inhibition of complex II of the respiratory chain in area CA3 of rat hippocampal slices. <i>Archives of Toxicology</i> , 2018, 92, 3191-3205.	1.9	33
18	„Schmerznerve“ wie aus Schädigungen von Hirngewebe Schmerzen werden. <i>WissenKompakt Medizin</i> , 2018, , 21-29.	0.0	0

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19	Energy and Potassium Ion Homeostasis during Gamma Oscillations. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 47.	1.4	26
20	Brain Endothelial- and Epithelial-Specific Interferon Receptor Chain 1 Drives Virus-Induced Sickness Behavior and Cognitive Impairment. <i>Immunity</i> , 2016, 44, 901-912.	6.6	143
21	Amyloid Precursor Protein Protects Neuronal Network Function after Hypoxia via Control of Voltage-Gated Calcium Channels. <i>Journal of Neuroscience</i> , 2016, 36, 8356-8371.	1.7	37
22	TLR4-activated microglia require IFN- $\hat{1}$ ³ to induce severe neuronal dysfunction and death in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 212-217.	3.3	160
23	The interneuron energy hypothesis: Implications for brain disease. <i>Neurobiology of Disease</i> , 2016, 90, 75-85.	2.1	197
24	Drug Resistance in Cortical and Hippocampal Slices from Resected Tissue of Epilepsy Patients: No Significant Impact of P-Glycoprotein and Multidrug Resistance-Associated Proteins. <i>Frontiers in Neurology</i> , 2015, 6, 30.	1.1	55
25	Physiology-Based Kinetic Modeling of Neuronal Energy Metabolism Unravels the Molecular Basis of NAD(P)H Fluorescence Transients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1494-1506.	2.4	38
26	A reliable model for gamma oscillations in hippocampal tissue. <i>Journal of Neuroscience Research</i> , 2015, 93, 1067-1078.	1.3	32
27	Widespread activation of microglial cells in the hippocampus of chronic epileptic rats correlates only partially with neurodegeneration. <i>Brain Structure and Function</i> , 2015, 220, 2423-2439.	1.2	32
28	Energy substrates that fuel fast neuronal network oscillations. <i>Frontiers in Neuroscience</i> , 2014, 8, 398.	1.4	50
29	Highly Energized Inhibitory Interneurons are a Central Element for Information Processing in Cortical Networks. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1270-1282.	2.4	219
30	Oxygen Consumption Rates during Three Different Neuronal Activity States in the Hippocampal CA3 Network. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 263-271.	2.4	63
31	Phosphorylation of the Actin Binding Protein Drebrin at S647 Is Regulated by Neuronal Activity and PTEN. <i>PLoS ONE</i> , 2013, 8, e71957.	1.1	33
32	Energy Demand of Synaptic Transmission at the Hippocampal Schaffer-Collateral Synapse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2076-2083.	2.4	37
33	Muscarinic receptor activation determines the effects of store-operated Ca ²⁺ -entry on excitability and energy metabolism in pyramidal neurons. <i>Cell Calcium</i> , 2012, 51, 40-50.	1.1	16
34	Redistribution of astrocytic glutamine synthetase in the hippocampus of chronic epileptic rats. <i>Glia</i> , 2011, 59, 1706-1718.	2.5	41
35	Reply: Impaired mitochondrial function abolishes gamma oscillations in the hippocampus through an effect on fast-spiking interneurons. <i>Brain</i> , 2011, 134, e181-e181.	3.7	0
36	Gamma oscillations in the hippocampus require high complex I gene expression and strong functional performance of mitochondria. <i>Brain</i> , 2011, 134, 345-358.	3.7	156

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37	The Energy Demand of Fast Neuronal Network Oscillations: Insights from Brain Slice Preparations. <i>Frontiers in Pharmacology</i> , 2011, 2, 90.	1.6	37
38	Complex III-dependent superoxide production of brain mitochondria contributes to seizure-related ROS formation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1163-1170.	0.5	70
39	Endogenous Nitric Oxide Is a Key Promoting Factor for Initiation of Seizure-Like Events in Hippocampal and Entorhinal Cortex Slices. <i>Journal of Neuroscience</i> , 2009, 29, 8565-8577.	1.7	86
40	GABAergic activities enhance macrophage inflammatory protein-1 α release from microglia (brain). <i>Trends in Neurosciences</i> , 2009, 32, 10-15.	1.3	31
41	MODELS Seizure Models in Acute and Organotypic Slices. , 2009, , 786-792.		0
42	Gamma Oscillations and Spontaneous Network Activity in the Hippocampus Are Highly Sensitive to Decreases in pO ₂ and Concomitant Changes in Mitochondrial Redox State. <i>Journal of Neuroscience</i> , 2008, 28, 1153-1162.	1.7	101
43	Mitochondria and neuronal activity. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C641-C657.	2.1	673
44	ERK activation causes epilepsy by stimulating NMDA receptor activity. <i>EMBO Journal</i> , 2007, 26, 4891-4901.	3.5	126
45	Carbamazepine-resistance in the epileptic dentate gyrus of human hippocampal slices. <i>Brain</i> , 2006, 129, 3290-3306.	3.7	63
46	An Overview of In Vitro Seizure Models in Acute and Organotypic Slices. , 2006, , 35-44.		13
47	Mitochondrial Calcium Ion and Membrane Potential Transients Follow the Pattern of Epileptiform Discharges in Hippocampal Slice Cultures. <i>Journal of Neuroscience</i> , 2005, 25, 4260-4269.	1.7	88
48	Metabolic dysfunction during neuronal activation in the ex vivo hippocampus from chronic epileptic rats and humans. <i>Brain</i> , 2005, 128, 2396-2407.	3.7	123
49	The tyrosine kinase inhibitor AG126 restores receptor signaling and blocks release functions in activated microglia (brain macrophages) by preventing a chronic rise in the intracellular calcium level. <i>Journal of Neurochemistry</i> , 2004, 90, 513-525.	2.1	18
50	Coupling of neuronal activity and mitochondrial metabolism as revealed by nad(p)h fluorescence signals in organotypic hippocampal slice cultures of the rat. <i>Neuroscience</i> , 2003, 119, 87-100.	1.1	93
51	Metabotropic Receptor-Mediated Ca ²⁺ Signaling Elevates Mitochondrial Ca ²⁺ and Stimulates Oxidative Metabolism in Hippocampal Slice Cultures. <i>Journal of Neurophysiology</i> , 2003, 90, 613-621.	0.9	35
52	Elevation of Basal Intracellular Calcium as a Central Element in the Activation of Brain Macrophages (Microglia): Suppression of Receptor-Evoked Calcium Signaling and Control of Release Function. <i>Journal of Neuroscience</i> , 2003, 23, 4410-4419.	1.7	229
53	Free Radical-Mediated Cell Damage After Experimental Status Epilepticus in Hippocampal Slice Cultures. <i>Journal of Neurophysiology</i> , 2002, 88, 2909-2918.	0.9	134
54	Cell death and metabolic activity during epileptiform discharges and status epilepticus in the hippocampus. <i>Progress in Brain Research</i> , 2002, 135, 197-210.	0.9	45

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55	Coupling of Electrical and Metabolic Activity During Epileptiform Discharges. <i>Epilepsia</i> , 2002, 43, 168-173.	2.6	23
56	Monitoring NAD(P)H autofluorescence to assess mitochondrial metabolic functions in rat hippocampal entorhinal cortex slices. <i>Brain Research Protocols</i> , 2001, 7, 267-276.	1.7	68
57	The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. <i>European Journal of Immunology</i> , 2001, 31, 2104-2115.	1.6	74
58	Distinct Physiologic Properties of Microglia and Blood-Borne Cells in Rat Brain Slices After Permanent Middle Cerebral Artery Occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 1537-1549.	2.4	65
59	Activation of mouse microglial cells affects P2 receptor signaling. <i>Brain Research</i> , 2000, 853, 49-59.	1.1	116
60	Microglial Activation by Components of Gram-Positive and -Negative Bacteria: Distinct and Common Routes to the Induction of Ion Channels and Cytokines. <i>Journal of Neuropathology and Experimental Neurology</i> , 1999, 58, 1078-1089.	0.9	95
61	Endothelin-induced calcium signaling in cultured mouse microglial cells is mediated through ETB receptors. <i>NeuroReport</i> , 1997, 8, 2127-2131.	0.6	34
62	APPs ₁ rescues Tau-induced synaptic pathology. <i>Journal of Neuroscience</i> , 0, , JN-RM-2200-21.	1.7	7