Christian Henneberger

List of Publications by Year
in descending order

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68 papers	4,353 citations	136950 32 h-index	114465 63 g-index
77 all docs	77 docs citations	77 times ranked	5530 citing authors

#	Article	IF	Citations
1	Rapid Fluorescence Lifetime Imaging Reveals That TRPV4 Channels Promote Dysregulation of Neuronal Na⁺in Ischemia. Journal of Neuroscience, 2022, 42, 552-566.	3.6	8
2	Serotonin receptor 4 regulates hippocampal astrocyte morphology and function. Glia, 2021, 69, 872-889.	4.9	15
3	Heterogeneity and Development of Fine Astrocyte Morphology Captured by Diffraction-Limited Microscopy. Frontiers in Cellular Neuroscience, 2021, 15, 669280.	3.7	25
4	Elucidating regulators of astrocytic Ca²⁺ signaling via multiâ€threshold event detection (<scp>MTED</scp>). Glia, 2021, 69, 2798-2811.	4.9	3
5	Disruption of Glutamate Transport and Homeostasis by Acute Metabolic Stress. Frontiers in Cellular Neuroscience, 2021, 15, 637784.	3.7	10
6	A Rationally and Computationally Designed Fluorescent Biosensor for <scp>d</scp>-Serine. ACS Sensors, 2021, 6, 4193-4205.	7.8	8
7	Limited contribution of astroglial gap junction coupling to buffering of extracellular K⁺ in CA1 stratum radiatum. Glia, 2020, 68, 918-931.	4.9	19
8	Local Efficacy of Glutamate Uptake Decreases with Synapse Size. Cell Reports, 2020, 32, 108182.	6.4	42
9	Making sense of astrocytic calcium signals â€" from acquisition to interpretation. Nature Reviews Neuroscience, 2020, 21, 551-564.	10.2	131
10	LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. Neuron, 2020, 108, 919-936.e11.	8.1	159
11	Local Resting Ca2+ Controls the Scale of Astroglial Ca2+ Signals. Cell Reports, 2020, 30, 3466-3477.e4.	6.4	38
12	HACE1 deficiency leads to structural and functional neurodevelopmental defects. Neurology: Genetics, 2019, 5, e330.	1.9	26
13	Synaptic Potentiation at Basal and Apical Dendrites of Hippocampal Pyramidal Neurons Involves Activation of a Distinct Set of Extracellular and Intracellular Molecular Cues. Cerebral Cortex, 2019, 29, 283-304.	2.9	27
14	Light-sheet fluorescence expansion microscopy: fast mapping of neural circuits at super resolution. Neurophotonics, 2019, 6, 1.	3.3	30
15	P2Y1 receptor blockade normalizes network dysfunction and cognition in an Alzheimerâ€™s disease model. Journal of Experimental Medicine, 2018, 215, 1649-1663.	8.5	83
16	Diversity of astrocyte potassium channels: An update. Brain Research Bulletin, 2018, 136, 26-36.	3.0	44
17	Control of astrocyte morphology by Rho GTPases. Brain Research Bulletin, 2018, 136, 44-53.	3.0	48
18	The structural and functional evidence for vesicular release from astrocytes in situ. Brain Research Bulletin, 2018, 136, 65-75.	3.0	28

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19	Molecular mechanisms of astrocyte-neuron signaling. Brain Research Bulletin, 2018, 136, 1-2.	3.0	1
20	CCL17 exerts a neuroimmune modulatory function and is expressed in hippocampal neurons. Glia, 2018, 66, 2246-2261.	4.9	33
21	Disentangling astroglial physiology with a realistic cell model in silico. Nature Communications, 2018, 9, 3554.	12.8	65
22	Monitoring hippocampal glycine with the computationally designed optical sensor GlyFS. Nature Chemical Biology, 2018, 14, 861-869.	8.0	60
23	Heparan Sulfates Support Pyramidal Cell Excitability, Synaptic Plasticity, and Context Discrimination. Cerebral Cortex, 2017, 27, 903-918.	2.9	41
24	Dopamine elevates and lowers astroglial Ca²⁺ through distinct pathways depending on local synaptic circuitry. Glia, 2017, 65, 447-459.	4.9	75
25	Astroglial versus Neuronal D-Serine: Fact Checking. Trends in Neurosciences, 2017, 40, 517-520.	8.6	83
26	Subcellular reorganization and altered phosphorylation of the astrocytic gap junction protein connexin43 in human and experimental temporal lobe epilepsy. Glia, 2017, 65, 1809-1820.	4.9	67
27	Does rapid and physiological astrocyteâ€“neuron signalling amplify epileptic activity?. Journal of Physiology, 2017, 595, 1917-1927.	2.9	19
28	Astroglial Glutamate Signaling and Uptake in the Hippocampus. Frontiers in Molecular Neuroscience, 2017, 10, 451.	2.9	148
29	Astrocytic TLR4 at the crossroads of inflammation and seizure susceptibility. Journal of Cell Biology, 2016, 215, 607-609.	5.2	18
30	Barreloid Borders and Neuronal Activity Shape Panglial Gap Junction-Coupled Networks in the Mouse Thalamus. Cerebral Cortex, 2016, 28, 213-222.	2.9	16
31	Rangefinder: A Semisynthetic FRET Sensor Design Algorithm. ACS Sensors, 2016, 1, 1286-1290.	7.8	11
32	Hierarchical spike clustering analysis for investigation of interneuron heterogeneity. Neuroscience Letters, 2016, 619, 86-91.	2.1	5
33	Construction of a robust and sensitive arginine biosensor through ancestral protein reconstruction. Protein Science, 2015, 24, 1412-1422.	7.6	60
34	Vielfalt lokaler Interaktionen zwischen Astrozyten und Neuronen. E-Neuroforum, 2015, 21, 112-116.	0.1	0
35	Astrocyte uncoupling as a cause of human temporal lobe epilepsy. Brain, 2015, 138, 1208-1222.	7.6	257
36	Diversity of synaptic astrocyteâ€“neuron signaling. E-Neuroforum, 2015, 6, 79-83.	0.1	2

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37	Diversity of synaptic astrocyteâ€“neuron signaling. E-Neuroforum, 2015, 21, .	0.1	0
38	Neuronal adaptation involves rapid expansion of the action potential initiation site. Nature Communications, 2014, 5, 3817.	12.8	22
39	Spatial properties of astrocyte gap junction coupling in the rat hippocampus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130600.	4.0	59
40	Glia selectively approach synapses on thin dendritic spines. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20140047.	4.0	105
41	Bassoon Specifically Controls Presynaptic P/Q-type Ca2+ Channels via RIM-Binding Protein. Neuron, 2014, 82, 181-194.	8.1	139
42	Diversity of astroglial functions alludes to subcellular specialisation. Trends in Neurosciences, 2014, 37, 228-242.	8.6	74
43	NMDA Receptor Activation: Two Targets for Two Co-Agonists. Neurochemical Research, 2013, 38, 1156-1162.	3.3	26
44	Contribution of near-threshold currents to intrinsic oscillatory activity in rat medial entorhinal cortex layer II stellate cells. Journal of Neurophysiology, 2013, 109, 445-463.	1.8	41
45	Independent Regulation of Basal Neurotransmitter Release Efficacy by Variable Ca2+ Influx and Bouton Size at Small Central Synapses. PLoS Biology, 2012, 10, e1001396.	5.6	58
46	Monitoring local synaptic activity with astrocytic patch pipettes. Nature Protocols, 2012, 7, 2171-2179.	12.0	39
47	d-Serine: A key to synaptic plasticity?. International Journal of Biochemistry and Cell Biology, 2012, 44, 587-590.	2.8	23
48	Functional Hallmarks of GABAergic Synapse Maturation and the Diverse Roles of Neurotrophins. Frontiers in Cellular Neuroscience, 2011, 5, 13.	3.7	20
49	A Peptide Mimetic Targeting Trans-Homophilic NCAM Binding Sites Promotes Spatial Learning and Neural Plasticity in the Hippocampus. PLoS ONE, 2011, 6, e23433.	2.5	21
50	Asymmetric hemispheric representation of periictal heart rate modulation is individually lateralised. Epileptic Disorders, 2011, 13, 172-176.	1.3	11
51	Heterogeneous voltage dependence of interneuron resonance in the hippocampal stratum radiatum of adult rats. Synapse, 2011, 65, 1378-1381.	1.2	6
52	Astrocytes as Regulators of Synaptic Function. Neuroscientist, 2011, 17, 513-523.	3.5	62
53	Matters arisingâ€"Authors response: Is it possible to estimate the SUDEP risk in people with chronic, medically refractory epilepsy?. Epilepsy Research, 2010, 90, 311-312.	1.6	2
54	Long-term potentiation depends on release of d-serine from astrocytes. Nature, 2010, 463, 232-236.	27.8	1,140

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55	Synaptic plasticity and Ca²⁺ signalling in astrocytes. Neuron Glia Biology, 2010, 6, 141-146.	1.6	19
56	The Extracellular Matrix Molecule Hyaluronic Acid Regulates Hippocampal Synaptic Plasticity by Modulating Postsynaptic L-Type Ca2+ Channels. Neuron, 2010, 67, 116-128.	8.1	184
57	A 29â€amino acid fragment of Clostridium botulinum C3 protein enhances neuronal outgrowth, connectivity, and reinnervation. FASEB Journal, 2009, 23, 1115-1126.	0.5	47
58	Do alterations in inter-ictal heart rate variability predict sudden unexpected death in epilepsy?. Epilepsy Research, 2009, 87, 277-280.	1.6	71
59	Episodic ataxia type 1 mutations differentially affect neuronal excitability and transmitter release. DMM Disease Models and Mechanisms, 2009, 2, 612-619.	2.4	38
60	Analog Modulation of Mossy Fiber Transmission Is Uncoupled from Changes in Presynaptic Ca²⁺. Journal of Neuroscience, 2008, 28, 7765-7773.	3.6	60
61	Cortical Efferent Control of Subcortical Sensory Neurons by Synaptic Disinhibition. Cerebral Cortex, 2007, 17, 2039-2049.	2.9	17
62	Cajalâ€“Retzius cells in the mouse neocortex receive two types of preâ€•and postsynaptically distinct GABAergic inputs. Journal of Physiology, 2007, 585, 881-895.	2.9	23
63	Altered Balance of Glutamatergic/GABAergic Synaptic Input and Associated Changes in Dendrite Morphology after BDNF Expression in BDNF-Deficient Hippocampal Neurons. Journal of Neuroscience, 2006, 26, 7189-7200.	3.6	59
64	RNA editing produces glycine receptor Î±3P185L, resulting in high agonist potency. Nature Neuroscience, 2005, 8, 736-744.	14.8	114
65	GluR- and TrkB-mediated maturation of GABAAreceptor function during the period of eye opening. European Journal of Neuroscience, 2005, 21, 431-440.	2.6	29
66	Postsynaptic Action of BDNF on GABAergic Synaptic Transmission in the Superficial Layers of the Mouse Superior Colliculus. Journal of Neurophysiology, 2002, 88, 595-603.	1.8	83
67	Early onset of glutamatergic and GABAergic synaptic activity in the visual layers of the rodent superior colliculus. International Journal of Developmental Neuroscience, 2001, 19, 255-261.	1.6	9
68	Rapid genotyping of newborn gene mutant mice. Journal of Neuroscience Methods, 2000, 100, 123-126.	2.5	32