Dietmar Schmitz

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Synaptic plasticity at hippocampal mossy fibre synapses. Nature Reviews Neuroscience, 2005, 6, 863-876.	4.9	824
2	Arc/Arg3.1 Is Essential for the Consolidation of Synaptic Plasticity and Memories. Neuron, 2006, 52, 437-444.	3.8	743
3	Electrical coupling underlies high-frequency oscillations in the hippocampus in vitro. Nature, 1998, 394, 189-192.	13.7	625
4	Autistic-like behaviours and hyperactivity in mice lacking ProSAP1/Shank2. Nature, 2012, 486, 256-260.	13.7	570
5	Axo-Axonal Coupling. Neuron, 2001, 31, 831-840.	3.8	390
6	Analysis of Excitatory Microcircuitry in the Medial Entorhinal Cortex Reveals Cell-Type-Specific Differences. Neuron, 2010, 68, 1059-1066.	3.8	324
7	A Therapeutic Non-self-reactive SARS-CoV-2 Antibody Protects from Lung Pathology in a COVID-19 Hamster Model. Cell, 2020, 183, 1058-1069.e19.	13.5	305
8	Optogenetic Tools for Subcellular Applications in Neuroscience. Neuron, 2017, 96, 572-603.	3.8	274
9	Experimental febrile seizures are precipitated by a hyperthermia-induced respiratory alkalosis. Nature Medicine, 2006, 12, 817-823.	15.2	257
10	RIM-Binding Protein, a Central Part of the Active Zone, Is Essential for Neurotransmitter Release. Science, 2011, 334, 1565-1569.	6.0	257
11	High-frequency population oscillations are predicted to occur in hippocampal pyramidal neuronal networks interconnected by axoaxonal gap junctions. Neuroscience, 1999, 92, 407-426.	1.1	250
12	Presynaptic Kainate Receptor Mediation of Frequency Facilitation at Hippocampal Mossy Fiber Synapses. Science, 2001, 291, 1972-1976.	6.0	245
13	Cannabinoid Type 2 Receptors Mediate a Cell Type-Specific Plasticity in the Hippocampus. Neuron, 2016, 90, 795-809.	3.8	238
14	Human cerebrospinal fluid monoclonal<i>N</i>-methyl-D-aspartate receptor autoantibodies are sufficient for encephalitis pathogenesis. Brain, 2016, 139, 2641-2652.	3.7	223
15	Axonal Gap Junctions Between Principal Neurons: A Novel Source of Network Oscillations, and Perhaps Epileptogenesis. Reviews in the Neurosciences, 2002, 13, 1-30.	1.4	207
16	Synaptic Activation of Presynaptic Kainate Receptors on Hippocampal Mossy Fiber Synapses. Neuron, 2000, 27, 327-338.	3.8	195
17	Neuronal selenoprotein expression is required for interneuron development and prevents seizures and neurodegeneration. FASEB Journal, 2010, 24, 844-852.	0.2	193
18	Glutamine Uptake by Neurons: Interaction of Protons with System A Transporters. Journal of Neuroscience, 2002, 22, 62-72.	1.7	188

#	Article	IF	Citations
19	Mediation of Hippocampal Mossy Fiber Long-Term Potentiation by Presynaptic Ih Channels. Science, 2002, 295, 143-147.	6.0	148
20	Kainate Receptors Depress Excitatory Synaptic Transmission at CA3â†'CA1 Synapses in the Hippocampus via a Direct Presynaptic Action. Journal of Neuroscience, 2001, 21, 2958-2966.	1.7	146
21	A Defect in the Ionotropic Glutamate Receptor 6 Gene (GRIK2) Is Associated with Autosomal Recessive Mental Retardation. American Journal of Human Genetics, 2007, 81, 792-798.	2.6	137
22	Adenosine gates synaptic plasticity at hippocampal mossy fiber synapses. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14397-14402.	3.3	131
23	Synaptic PRG-1 Modulates Excitatory Transmission via Lipid Phosphate-Mediated Signaling. Cell, 2009, 138, 1222-1235.	13.5	124
24	Single-Trial Phase Precession in the Hippocampus. Journal of Neuroscience, 2009, 29, 13232-13241.	1.7	118
25	Presynaptic kainate receptors impart an associative property to hippocampal mossy fiber long-term potentiation. Nature Neuroscience, 2003, 6, 1058-1063.	7.1	114
26	Coherent Phasic Excitation during Hippocampal Ripples. Neuron, 2011, 72, 137-152.	3.8	113
27	Optogenetic acidification of synaptic vesicles and lysosomes. Nature Neuroscience, 2015, 18, 1845-1852.	7.1	113
28	Induced sharp wave-ripple complexes in the absence of synaptic inhibition in mouse hippocampal slices. Journal of Physiology, 2005, 563, 663-670.	1.3	106
29	Cellular correlate of assembly formation in oscillating hippocampal networks in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E607-16.	3.3	105
30	Segregation of Axonal and Somatic Activity During Fast Network Oscillations. Science, 2012, 336, 1458-1461.	6.0	104
31	State-dependencies of learning across brain scales. Frontiers in Computational Neuroscience, 2015, 9, 1.	1.2	104
32	The effect of spermidine on memory performance in older adults at risk for dementia: A randomized controlled trial. Cortex, 2018, 109, 181-188.	1.1	98
33	Cellular and System Biology of Memory: Timing, Molecules, and Beyond. Physiological Reviews, 2016, 96, 647-693.	13.1	96
34	Sortilin-related Receptor with A-type Repeats (SORLA) Affects the Amyloid Precursor Protein-dependent Stimulation of ERK Signaling and Adult Neurogenesis. Journal of Biological Chemistry, 2008, 283, 14826-14834.	1.6	95
35	Role of Amyloid-Â Glycine 33 in Oligomerization, Toxicity, and Neuronal Plasticity. Journal of Neuroscience, 2009, 29, 7582-7590.	1.7	95
36	Neuronal Autophagy Regulates Presynaptic Neurotransmission by Controlling the Axonal Endoplasmic Reticulum. Neuron, 2021, 109, 299-313.e9.	3.8	91

#	Article	IF	Citations
37	RIM-binding protein 2 regulates release probability by fine-tuning calcium channel localization at murine hippocampal synapses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11615-11620.	3.3	86
38	Ripple (Ëœ200-Hz) Oscillations in Temporal Structures. Journal of Clinical Neurophysiology, 2000, 17, 361-376.	0.9	83
39	Efficient optogenetic silencing of neurotransmitter release with a mosquito rhodopsin. Neuron, 2021, 109, 1621-1635.e8.	3.8	81
40	Inhibitory Gradient along the Dorsoventral Axis in the Medial Entorhinal Cortex. Neuron, 2013, 79, 1197-1207.	3.8	79
41	Synaptic and Nonsynaptic Contributions to Giant IPSPs and Ectopic Spikes Induced by 4-Aminopyridine in the Hippocampus In Vitro. Journal of Neurophysiology, 2001, 85, 1246-1256.	0.9	78
42	Compromised fidelity of endocytic synaptic vesicle protein sorting in the absence of stonin 2. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E526-35.	3.3	78
43	Effects of spermidine supplementation on cognition and biomarkers in older adults with subjective cognitive decline (SmartAge)â€"study protocol for a randomized controlled trial. Alzheimer's Research and Therapy, 2019, 11, 36.	3.0	74
44	Propagation of hippocampal ripples to the neocortex by way of a subiculum-retrosplenial pathway. Nature Communications, 2020, 11, 1947.	5.8	73
45	Human Cerebrospinal Fluid Monoclonal LGI1 Autoantibodies Increase Neuronal Excitability. Annals of Neurology, 2020, 87, 405-418.	2.8	72
46	Potassium channel-based optogenetic silencing. Nature Communications, 2018, 9, 4611.	5.8	71
47	Dopamine Depresses Excitatory Synaptic Transmission Onto Rat Subicular Neurons Via Presynaptic D1-Like Dopamine Receptors. Journal of Neurophysiology, 2000, 84, 112-119.	0.9	69
48	Novel APP/AÎ² mutation K16N produces highly toxic heteromeric AÎ² oligomers. EMBO Molecular Medicine, 2012, 4, 647-659.	3.3	68
49	Laminar difference in GABA uptake and GAT-1 expression in rat CA1. Journal of Physiology, 1998, 512, 643-649.	1.3	67
50	Differential involvement of the extracellular 6â€Oâ€endosulfatases Sulf1 and Sulf2 in brain development and neuronal and behavioural plasticity. Journal of Cellular and Molecular Medicine, 2009, 13, 4505-4521.	1.6	66
51	Frequency-Dependent Information Flow From the Entorhinal Cortex to the Hippocampus. Journal of Neurophysiology, 1997, 78, 3444-3449.	0.9	65
52	Assessing the Role of GLUK5 and GLUK6 at Hippocampal Mossy Fiber Synapses. Journal of Neuroscience, 2004, 24, 10093-10098.	1.7	65
53	Muskelin Regulates Actin Filament- and Microtubule-Based GABAA Receptor Transport in Neurons. Neuron, 2011, 70, 66-81.	3.8	64
54	Functional Diversity of Subicular Principal Cells during Hippocampal Ripples. Journal of Neuroscience, 2015, 35, 13608-13618.	1.7	63

#	Article	IF	Citations
55	Estrus-Cycle Regulation of Cortical Inhibition. Current Biology, 2019, 29, 605-615.e6.	1.8	63
56	Structural and functional plasticity of the cytoplasmic active zone. Current Opinion in Neurobiology, 2011, 21, 144-150.	2.0	60
57	SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies. Science, 2022, 375, 782-787.	6.0	60
58	Respiratory alkalosis in children with febrile seizures. Epilepsia, 2011, 52, 1949-1955.	2.6	59
59	Excitatory Microcircuits within Superficial Layers of the Medial Entorhinal Cortex. Cell Reports, 2017, 19, 1110-1116.	2.9	59
60	Two different forms of longâ€term potentiation at CA1â€“subiculum synapses. Journal of Physiology, 2008, 586, 2725-2734.	1.3	57
61	Neuroligin 1 Is Dynamically Exchanged at Postsynaptic Sites. Journal of Neuroscience, 2010, 30, 12733-12744.	1.7	56
62	KCNQ5 K+ channels control hippocampal synaptic inhibition and fast network oscillations. Nature Communications, 2015, 6, 6254.	5.8	56
63	Enhancing inhibitory synaptic function reverses spatial memory deficits in Shank2 mutant mice. Neuropharmacology, 2017, 112, 104-112.	2.0	56
64	Chi3l3 induces oligodendrogenesis in an experimental model of autoimmune neuroinflammation. Nature Communications, 2019, 10, 217.	5.8	56
65	Properties of entorhinal cortex deep layer neurons projecting to the rat dentate gyrus. European Journal of Neuroscience, 2001, 13, 413-420.	1.2	55
66	Carbachol-induced changes in excitability and [Ca2+]isignalling in projection cells of medial entorhinal cortex layers II and III. European Journal of Neuroscience, 1999, 11, 3626-3636.	1.2	54
67	An Approach for Reliably Investigating Hippocampal Sharp Wave-Ripples In Vitro. PLoS ONE, 2009, 4, e6925.	1.1	54
68	Functional Architecture of the Rat Parasubiculum. Journal of Neuroscience, 2016, 36, 2289-2301.	1.7	54
69	Serotonin reduces synaptic excitation in the superficial medial entorhinal cortex of the rat via a presynaptic mechanism. Journal of Physiology, 1998, 508, 119-129.	1.3	51
70	Human gestational <i>N</i>â€methylâ€<scp>d</scp>â€aspartate receptor autoantibodies impair neonatal murine brain function. Annals of Neurology, 2019, 86, 656-670.	2.8	51
71	Ryanodine Receptor Activation Induces Long-Term Plasticity of Spine Calcium Dynamics. PLoS Biology, 2015, 13, e1002181.	2.6	48
72	Dendritic Compartment and Neuronal Output Mode Determine Pathway-Specific Long-Term Potentiation in the Piriform Cortex. Journal of Neuroscience, 2009, 29, 13649-13661.	1.7	47

#	Article	IF	Citations
73	RIM-BP2 primes synaptic vesicles via recruitment of Munc13-1 at hippocampal mossy fiber synapses. ELife, 2019, 8, .	2.8	46
74	Early Cortical Changes in Gamma Oscillations in Alzheimerâ€™s Disease. Frontiers in Systems Neuroscience, 2016, 10, 83.	1.2	43
75	Phase Precession Through Synaptic Facilitation. Neural Computation, 2008, 20, 1285-1324.	1.3	41
76	Synaptic plasticity in the subiculum. Progress in Neurobiology, 2009, 89, 334-342.	2.8	40
77	Anatomical Organization and Spatiotemporal Firing Patterns of Layer 3 Neurons in the Rat Medial Entorhinal Cortex. Journal of Neuroscience, 2015, 35, 12346-12354.	1.7	40
78	Interaction between superficial layers of the entorhinal cortex and the hippocampus in normal and epileptic temporal lobe. Epilepsy Research, 1998, 32, 183-193.	0.8	38
79	Recruitment of oriens-lacunosum-moleculare interneurons during hippocampal ripples. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4398-4403.	3.3	38
80	Retigabine strongly reduces repetitive firing in rat entorhinal cortex. European Journal of Pharmacology, 1999, 386, 165-171.	1.7	37
81	Enhanced Temporal Stability of Cholinergic Hippocampal Gamma Oscillations Following Respiratory Alkalosis In Vitro. Journal of Neurophysiology, 2001, 85, 2063-2069.	0.9	37
82	Energy Demand of Synaptic Transmission at the Hippocampal Schaffer-Collateral Synapse. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 2076-2083.	2.4	37
83	Optogenetics at the presynapse. Nature Neuroscience, 2022, 25, 984-998.	7.1	37
84	Hippocampal Ripple Oscillations and Inhibition-First Network Models: Frequency Dynamics and Response to GABA Modulators. Journal of Neuroscience, 2018, 38, 3124-3146.	1.7	36
85	SORCS 1 and SORCS 3 control energy balance and orexigenic peptide production. EMBO Reports, 2018, 19, .	2.0	36
86	Microcircuits for spatial coding in the medial entorhinal cortex. Physiological Reviews, 2022, 102, 653-688.	13.1	36
87	Cell-specific synaptic plasticity induced by network oscillations. ELife, 2016, 5, .	2.8	35
88	Cannabinoid type 2 receptors mediate a cell type-specific self-inhibition in cortical neurons. Neuropharmacology, 2018, 139, 217-225.	2.0	34
89	Brain-wide interactions during hippocampal sharp wave ripples. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200931119.	3.3	34
90	Spermidine protects from age-related synaptic alterations at hippocampal mossy fiber-CA3 synapses. Scientific Reports, 2019, 9, 19616.	1.6	33

#	Article	IF	Citations
91	Serotonin reduces synaptic excitation of principal cells in the superficial layers of rat hippocampal-entorhinal cortex combined slices. Neuroscience Letters, 1995, 190, 37-40.	1.0	31
92	Comparison of the effects of serotonin in the hippocampus and the entorhinal cortex. Molecular Neurobiology, 1998, 17, 59-72.	1.9	31
93	Syntaxin 1B is important for mouse postnatal survival and proper synaptic function at the mouse neuromuscular junctions. Journal of Neurophysiology, 2015, 114, 2404-2417.	0.9	31
94	Complementary Sensory and Associative Microcircuitry in Primary Olfactory Cortex. Journal of Neuroscience, 2011, 31, 12149-12158.	1.7	30
95	Axonal properties determine somatic firing in a model of <i>in vitro</i> CA1 hippocampal sharp wave/ripples and persistent gamma oscillations. European Journal of Neuroscience, 2012, 36, 2650-2660.	1.2	29
96	Routes to, from and within the subiculum. Cell and Tissue Research, 2018, 373, 557-563.	1.5	29
97	Differential cAMP Signaling at Hippocampal Output Synapses. Journal of Neuroscience, 2008, 28, 14358-14362.	1.7	28
98	Cannabinoids disrupt hippocampal sharp waveâ€ripples via inhibition of glutamate release. Hippocampus, 2012, 22, 1350-1362.	0.9	28
99	Cell-Type-Specific Modulation of Feedback Inhibition by Serotonin in the Hippocampus. Journal of Neuroscience, 2011, 31, 8464-8475.	1.7	27
100	Role of RIM1Î± in short- and long-term synaptic plasticity at cerebellar parallel fibres. Nature Communications, 2013, 4, 2392.	5.8	27
101	Subunit-selective N-Methyl-d-aspartate (NMDA) Receptor Signaling through Brefeldin A-resistant Arf Guanine Nucleotide Exchange Factors BRAG1 and BRAG2 during Synapse Maturation. Journal of Biological Chemistry, 2016, 291, 9105-9118.	1.6	26
102	VGLUT2 Functions as a Differential Marker for Hippocampal Output Neurons. Frontiers in Cellular Neuroscience, 2018, 12, 337.	1.8	26
103	Single Synapse Indicators of Impaired Glutamate Clearance Derived from Fast iGlu<i>_u</i>Imaging of Cortical Afferents in the Striatum of Normal and Huntington (Q175) Mice. Journal of Neuroscience, 2019, 39, 3970-3982.	1.7	26
104	Autaptic cultures of single hippocampal granule cells of mice and rats. European Journal of Neuroscience, 2010, 32, 939-947.	1.2	25
105	Generation of Sharp Wave-Ripple Events by Disinhibition. Journal of Neuroscience, 2020, 40, 7811-7836.	1.7	25
106	Potent depression of stimulus evoked field potential responses in the medial entorhinal cortex by serotonin. British Journal of Pharmacology, 1999, 128, 248-254.	2.7	24
107	Differential modulation of shortâ€term synaptic dynamics by longâ€term potentiation at mouse hippocampal mossy fibre synapses. Journal of Physiology, 2007, 585, 853-865.	1.3	24
108	Increased inhibitory input to CA1 pyramidal cells alters hippocampal gamma frequency oscillations in the MK-801 model of acute psychosis. Neurobiology of Disease, 2007, 25, 545-552.	2.1	24

#	Article	IF	Citations
109	Temporal compression mediated by short-term synaptic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4417-4422.	3.3	23
110	AÎ²42-oligomer Interacting Peptide (AIP) neutralizes toxic amyloid-Î²42 species and protects synaptic structure and function. Scientific Reports, 2015, 5, 15410.	1.6	23
111	The function of glutamatergic synapses is not perturbed by severe knockdown of 4.1N and 4.1G expression. Journal of Cell Science, 2009, 122, 735-744.	1.2	22
112	Serotonin Reduces Polysynaptic Inhibition via 5-HT1A Receptors in the Superficial Entorhinal Cortex. Journal of Neurophysiology, 1998, 80, 1116-1121.	0.9	21
113	Activation of metabotropic GABA receptors increases the energy barrier for vesicle fusion. Journal of Cell Science, 2011, 124, 3066-3073.	1.2	21
114	Subiculum as a generator of sharp wave-ripples in the rodent hippocampus. Cell Reports, 2021, 35, 109021.	2.9	21
115	Dopamine suppresses stimulus-induced field potentials in layer III of rat medial entorhinal cortex. Neuroscience Letters, 1998, 255, 119-121.	1.0	20
116	Homeostatic regulation of NCAM polysialylation is critical for correct synaptic targeting. Cellular and Molecular Life Sciences, 2012, 69, 1179-1191.	2.4	19
117	Up and Down States and Memory Consolidation Across Somatosensory, Entorhinal, and Hippocampal Cortices. Frontiers in Systems Neuroscience, 2020, 14, 22.	1.2	19
118	Defective Synapse Maturation and Enhanced Synaptic Plasticity in Shank2 Î”ex7^{â€“/â€“}Mice. ENeuro, 2018, 5, ENEURO.0398-17.2018.	0.9	19
119	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. Journal of Experimental Medicine, 2021, 218, .	4.2	19
120	Glutamate transporters and metabotropic receptors regulate excitatory neurotransmission in the medial entorhinal cortex of the rat. Brain Research, 2004, 1027, 151-160.	1.1	18
121	Recruitment of release sites underlies chemical presynaptic potentiation at hippocampal mossy fiber boutons. PLoS Biology, 2021, 19, e3001149.	2.6	18
122	Natural Spike Trains Trigger Short- and Long-Lasting Dynamics at Hippocampal Mossy Fiber Synapses in Rodents. PLoS ONE, 2010, 5, e9961.	1.1	18
123	Characterization of the inhibitory glycine receptor on entorhinal cortex neurons. European Journal of Neuroscience, 2004, 19, 1987-1991.	1.2	17
124	The cell adhesion protein CAR is a negative regulator of synaptic transmission. Scientific Reports, 2019, 9, 6768.	1.6	17
125	Effects of Spermidine Supplementation on Cognition and Biomarkers in Older Adults With Subjective Cognitive Decline. JAMA Network Open, 2022, 5, e2213875.	2.8	17
126	A novel control software that improves the experimental workflow of scanning photostimulation experiments. Journal of Neuroscience Methods, 2008, 175, 44-57.	1.3	16

#	Article	IF	Citations
127	CARbon DIoxide for the treatment of Febrile seizures: rationale, feasibility, and design of the CARDIF-study. Journal of Translational Medicine, 2013, 11, 157.	1.8	16
128	Effects of losigamone on synaptic potentials and spike frequency habituation in rat entorhinal cortex and hippocarnpal CA1 neurones. Neuroscience Letters, 1995, 200, 141-143.	1.0	15
129	Systemic administration of the phencyclidine compound MK-801 affects stimulus-induced field potentials selectively in layer III of rat medial entorhinal cortex. Neuroscience Letters, 1997, 221, 93-96.	1.0	15
130	SamuROI, a Python-Based Software Tool for Visualization and Analysis of Dynamic Time Series Imaging at Multiple Spatial Scales. Frontiers in Neuroinformatics, 2017, 11, 44.	1.3	15
131	Calcium-Independent Exo-endocytosis Coupling at Small Central Synapses. Cell Reports, 2019, 29, 3767-3774.e3.	2.9	15
132	Serotonin Attenuates Feedback Excitation onto O-LM Interneurons. Cerebral Cortex, 2015, 25, 4572-4583.	1.6	14
133	Could electrical coupling contribute to the formation of cell assemblies?. Reviews in the Neurosciences, 2020, 31, 121-141.	1.4	14
134	SynaptoPAC, an optogenetic tool for induction of presynaptic plasticity. Journal of Neurochemistry, 2021, 156, 324-336.	2.1	14
135	Investigation of hippocampal synaptic transmission and plasticity in mice deficient in the actin-binding protein Drebrin. Scientific Reports, 2017, 7, 42652.	1.6	13
136	Involvement of Mossy Cells in Sharp Wave-Ripple Activity InÂVitro. Cell Reports, 2018, 23, 2541-2549.	2.9	13
137	Somatostatin interneurons activated by 5-HT2A receptor suppress slow oscillations in medial entorhinal cortex. ELife, 2021, 10, .	2.8	13
138	Spikelets in pyramidal neurons: generating mechanisms, distinguishing properties, and functional implications. Reviews in the Neurosciences, 2019, 31, 101-119.	1.4	12
139	Loss of Piccolo Function in Rats Induces Cerebellar Network Dysfunction and Pontocerebellar Hypoplasia Type 3-like Phenotypes. Journal of Neuroscience, 2020, 40, 2943-2959.	1.7	12
140	Layer 3 Pyramidal Cells in the Medial Entorhinal Cortex Orchestrate Up-Down States and Entrain the Deep Layers Differentially. Cell Reports, 2020, 33, 108470.	2.9	12
141	Detection of input sites in scanning photostimulation data based on spatial correlations. Journal of Neuroscience Methods, 2010, 192, 286-295.	1.3	11
142	Species-specific differences in synaptic transmission and plasticity. Scientific Reports, 2020, 10, 16557.	1.6	10
143	Parvalbumin Interneurons Are Differentially Connected to Principal Cells in Inhibitory Feedback Microcircuits along the Dorsoventral Axis of the Medial Entorhinal Cortex. ENeuro, 2021, 8, ENEURO.0354-20.2020.	0.9	10
144	A Cellular Mechanism Underlying Enhanced Capability for Complex Olfactory Discrimination Learning. ENeuro, 2019, 6, ENEURO.0198-18.2019.	0.9	10

#	Article	IF	Citations
145	Rules of Plasticity. Science, 2008, 319, 39-40.	6.0	9
146	Voltage Gated Calcium Channel Activation by Backpropagating Action Potentials Downregulates NMDAR Function. Frontiers in Cellular Neuroscience, 2018, 12, 109.	1.8	9
147	GluK2-Mediated Excitability within the Superficial Layers of the Entorhinal Cortex. PLoS ONE, 2009, 4, e5576.	1.1	9
148	Group II Metabotropic Glutamate Receptors Depress Synaptic Transmission onto Subicular Burst Firing Neurons. PLoS ONE, 2012, 7, e45039.	1.1	8
149	GluK1 inhibits calcium dependent and independent transmitter release at associational/commissural synapses in area CA3 of the hippocampus. Hippocampus, 2012, 22, 57-68.	0.9	8
150	A LED-based method for monitoring NAD(P)H and FAD fluorescence in cell cultures and brain slices. Journal of Neuroscience Methods, 2013, 212, 222-227.	1.3	8
151	A CRISPR-Cas9â€“engineered mouse model for GPI-anchor deficiency mirrors human phenotypes and exhibits hippocampal synaptic dysfunctions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
152	Electrophysiology and morphology of a new type of cell within layer II of the rat lateral entorhinal cortex in vitro. Neuroscience Letters, 1995, 193, 149-152.	1.0	7
153	Uncoupling the Excitatory Amino Acid Transporter 2 From Its C-Terminal Interactome Restores Synaptic Glutamate Clearance at Corticostriatal Synapses and Alleviates Mutant Huntingtin-Induced Hypokinesia. Frontiers in Cellular Neuroscience, 2021, 15, 792652.	1.8	7
154	Temperature elevations can induce switches to homoclinic action potentials that alter neural encoding and synchronization. Nature Communications, 2022, 13, .	5.8	7
155	Functional GABA uptake at inhibitory synapses in CA1 of chronically epileptic rats. Epilepsy Research, 2005, 66, 199-202.	0.8	6
156	Electrophysiological and Molecular Characterization of the Parasubiculum. Journal of Neuroscience, 2019, 39, 8860-8876.	1.7	6
157	<i>In vitro</i> and <i>in vivo</i> antiâ€epileptic efficacy of eslicarbazepine acetate in a mouse model of <i>KCNQ2</i>â€related selfâ€limited epilepsy. British Journal of Pharmacology, 2022, 179, 84-102.	2.7	6
158	Aberrant Phase Separation of FUS Leads to Lysosome Sequestering and Acidification. Frontiers in Cell and Developmental Biology, 2021, 9, 716919.	1.8	6
159	The synaptic scaffold protein MPP2 interacts with GABAA receptors at the periphery of the postsynaptic density of glutamatergic synapses. PLoS Biology, 2022, 20, e3001503.	2.6	6
160	Dopamine depresses polysynaptic inhibition in rat subicular neurons. Brain Research, 2000, 861, 160-164.	1.1	5
161	Automated Detection and Localization of Synaptic Vesicles in Electron Microscopy Images. ENeuro, 2022, 9, ENEURO.0400-20.2021.	0.9	5
162	AMPA receptors jump the synaptic cleft. Nature Neuroscience, 2000, 3, 527-529.	7.1	4

#	Article	IF	Citations
163	GABAergic Interneurons with Nonlinear Dendrites: From Neuronal Computations to Memory Engrams. Neuroscience, 2022, 489, 34-43.	1.1	4
164	Circuit-Specific Dendritic Development in the Piriform Cortex. ENeuro, 2020, 7, ENEURO.0083-20.2020.	0.9	3
165	Initiating a new national epilepsy surgery program: Experiences gathered in Georgia. Epilepsy and Behavior, 2020, 111, 107259.	0.9	2
166	Inactivity Sets XL Synapses in Motion. Neuron, 2005, 47, 623-625.	3.8	1
167	Synaptic contributions to in vitro hippocampal sharp-wave ripples. BMC Neuroscience, 2009, 10, .	0.8	1
168	Retrograde Signaling Causes Excitement. Neuron, 2014, 81, 717-719.	3.8	1
169	OUP accepted manuscript. Cerebral Cortex, 2021, 32, 76-92.	1.6	1
170	Propagation of Hippocampal Ripples to the Neocortex by Way of a Subiculum-Retrospleanial Pathway. SSRN Electronic Journal, 0, , .	0.4	1
171	Correction: Effects of spermidine supplementation on cognition and biomarkers in older adults with subjective cognitive decline (SmartAge)â€"study protocol for a randomized controlled trial. Alzheimer's Research and Therapy, 2022, 14, .	3.0	1
172	Synaptic PRG-1 Modulates Excitatory Transmission via Lipid Phosphate-Mediated Signaling. Cell, 2011, 146, 1043.	13.5	0
173	Schnelle Netzwerkoszillationen im Hippocampus â€" PhÃnomene, Mechanismen und offene Fragen zwischen zellulÃren und systemischen Neurowissenschaften. E-Neuroforum, 2013, 19, 3-13.	0.2	0
174	Electrical Coupling of Axons. , 2010, , 85-102.		0