Matthias Eder

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3630684/publications.pdf Version: 2024-02-01



Μλττμιλς Επερ

#	Article	IF	CITATIONS
1	Ultramicroscopy: three-dimensional visualization of neuronal networks in the whole mouse brain. Nature Methods, 2007, 4, 331-336.	19.0	1,163
2	CB1 Cannabinoid Receptors and On-Demand Defense Against Excitotoxicity. Science, 2003, 302, 84-88.	12.6	1,083
3	The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus. Neuron, 2006, 51, 455-466.	8.1	632
4	The Role of m6A/m-RNA Methylation in Stress Response Regulation. Neuron, 2018, 99, 389-403.e9.	8.1	293
5	Glutamatergic and Dopaminergic Neurons Mediate Anxiogenic and Anxiolytic Effects of CRHR1. Science, 2011, 333, 1903-1907.	12.6	268
6	Activation of the Cannabinoid Receptor Type 1 Decreases Glutamatergic and GABAergic Synaptic Transmission in the Lateral Amygdala of the Mouse. Learning and Memory, 2003, 10, 116-128.	1.3	191
7	Association of FKBP51 with Priming of Autophagy Pathways and Mediation of Antidepressant Treatment Response: Evidence in Cells, Mice, and Humans. PLoS Medicine, 2014, 11, e1001755.	8.4	141
8	Nectin-3 links CRHR1 signaling to stress-induced memory deficits and spine loss. Nature Neuroscience, 2013, 16, 706-713.	14.8	123
9	Cross-disorder risk gene CACNA1C differentially modulates susceptibility to psychiatric disorders during development and adulthood. Molecular Psychiatry, 2018, 23, 533-543.	7.9	119
10	Ucn3 and CRF-R2 in the medial amygdala regulate complex social dynamics. Nature Neuroscience, 2016, 19, 1489-1496.	14.8	91
11	Intranasally Administered Neuropeptide S (NPS) Exerts Anxiolytic Effects Following Internalization Into NPS Receptor-Expressing Neurons. Neuropsychopharmacology, 2012, 37, 1323-1337.	5.4	80
12	CRF receptor type 2 neurons in the posterior bed nucleus of the stria terminalis critically contribute to stress recovery. Molecular Psychiatry, 2017, 22, 1691-1700.	7.9	67
13	Infrared-Guided Laser Stimulation of Neurons in Brain Slices. Science Signaling, 2002, 2002, pl2-pl2.	3.6	65
14	The Rab5 guanylate exchange factor Rin1 regulates endocytosis of the EphA4 receptor in mature excitatory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12539-12544.	7.1	64
15	Tumor suppressor down-regulated in renal cell carcinoma 1 (DRR1) is a stress-induced actin bundling factor that modulates synaptic efficacy and cognition. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17213-17218.	7.1	64
16	Tranexamic Acid Impairs γ-Aminobutyric Acid Receptor Type A–mediated Synaptic Transmission in the Murine Amygdala. Anesthesiology, 2014, 120, 639-649.	2.5	59
17	Extinction of avoidance behavior by safety learning depends on endocannabinoid signaling in the hippocampus. Journal of Psychiatric Research, 2017, 90, 46-59.	3.1	57
18	Functional optical probing of the hippocampal trisynaptic circuit in vitro: network dynamics, filter properties, and polysynaptic induction of CA1 LTP. Frontiers in Neuroscience, 2015, 9, 160.	2.8	53

MATTHIAS EDER

#	Article	IF	CITATIONS
19	The co-chaperone Fkbp5 shapes the acute stress response in the paraventricular nucleus of the hypothalamus of male mice. Molecular Psychiatry, 2021, 26, 3060-3076.	7.9	52
20	CRFR1 in AgRP Neurons Modulates Sympathetic Nervous System Activity to Adapt to Cold Stress and Fasting. Cell Metabolism, 2016, 23, 1185-1199.	16.2	49
21	Consolidation of Remote Fear Memories Involves Corticotropin-Releasing Hormone (CRH) Receptor Type 1-Mediated Enhancement of AMPA Receptor GluR1 Signaling in the Dentate Gyrus. Neuropsychopharmacology, 2012, 37, 787-796.	5.4	48
22	Isoflurane and sevoflurane dose-dependently impair hippocampal long-term potentiation. European Journal of Pharmacology, 2009, 623, 47-51.	3.5	47
23	Activation of mGlu receptors induces LTD without affecting postsynaptic sensitivity of CA1 neurons in rat hippocampal slices. Journal of Physiology, 2003, 546, 455-460.	2.9	46
24	lsoflurane modulates glutamatergic and GABAergic neurotransmission in the amygdala. European Journal of Neuroscience, 2004, 20, 1276-1280.	2.6	45
25	Methylglyoxalâ€mediated anxiolysis involves increased protein modification and elevated expression of glyoxalase 1 in the brain. Journal of Neurochemistry, 2010, 113, 1240-1251.	3.9	45
26	Distribution and Properties of Functional Postsynaptic Kainate Receptors on Neocortical Layer V Pyramidal Neurons. Journal of Neuroscience, 2003, 23, 6660-6670.	3.6	44
27	Nitrous oxide (N2O) pre- and postsynaptically attenuates NMDA receptor-mediated neurotransmission in the amygdala. Neuropharmacology, 2007, 52, 716-723.	4.1	39
28	Anaesthesia Monitoring by Recurrence Quantification Analysis of EEG Data. PLoS ONE, 2010, 5, e8876.	2.5	37
29	Neocortical Long-Term Potentiation and Long-Term Depression: Site of Expression Investigated by Infrared-Guided Laser Stimulation. Journal of Neuroscience, 2002, 22, 7558-7568.	3.6	34
30	Activation of CRH receptor type 1 expressed on glutamatergic neurons increases excitability of CA1 pyramidal neurons by the modulation of voltage-gated ion channels. Frontiers in Cellular Neuroscience, 2013, 7, 91.	3.7	33
31	Entorhinal theta-frequency input to the dentate gyrus trisynaptically evokes hippocampal CA1 LTP. Frontiers in Neural Circuits, 2012, 6, 64.	2.8	32
32	Sevoflurane Anesthesia Improves Cognitive Performance in Mice, but Does Not Influence In Vitro Long-Term Potentation in Hippocampus CA1 Stratum Radiatum. PLoS ONE, 2013, 8, e64732.	2.5	31
33	First Photoswitchable Neurotransmitter Transporter Inhibitor: Light-Induced Control of γ-Aminobutyric Acid Transporter 1 (GAT1) Activity in Mouse Brain. Journal of Medicinal Chemistry, 2014, 57, 6809-6821.	6.4	30
34	Shining Light on Neurons - Elucidation of Neuronal Functions by Photostimulation. Reviews in the Neurosciences, 2004, 15, 167-83.	2.9	29
35	Voltage-sensitive dye imaging demonstrates an enhancing effect of corticotropin-releasing hormone on neuronal activity propagation through the hippocampal formation. Journal of Psychiatric Research, 2011, 45, 256-261.	3.1	25
36	Low Dose Isoflurane Exerts Opposing Effects on Neuronal Network Excitability in Neocortex and Hippocampus. PLoS ONE, 2012, 7, e39346.	2.5	25

MATTHIAS EDER

#	Article	IF	CITATIONS
37	Identification of a Role for the Ventral Hippocampus in Neuropeptide S-Elicited Anxiolysis. PLoS ONE, 2013, 8, e60219.	2.5	23
38	Crybb2 coding for βB2-crystallin affects sensorimotor gating and hippocampal function. Mammalian Genome, 2013, 24, 333-348.	2.2	20
39	Intranasally Applied Neuropeptide S Shifts a High-Anxiety Electrophysiological Endophenotype in the Ventral Hippocampus towards a "Normal"-Anxiety One. PLoS ONE, 2015, 10, e0120272.	2.5	20
40	Xenon Attenuates Excitatory Synaptic Transmission in the Rodent Prefrontal Cortex and Spinal Cord Dorsal Horn. Anesthesiology, 2009, 111, 1297-1307.	2.5	20
41	The xenon-mediated antagonism against the NMDA receptor is non-selective for receptors containing either NR2A or NR2B subunits in the mouse amygdala. European Journal of Pharmacology, 2009, 619, 33-37.	3.5	19
42	Loratadine and Analogues: Discovery and Preliminary Structure–Activity Relationship of Inhibitors of the Amino Acid Transporter B ⁰ AT2. Journal of Medicinal Chemistry, 2014, 57, 9473-9479.	6.4	19
43	Xenon Attenuates Hippocampal Long-term Potentiation by Diminishing Synaptic and Extrasynaptic <i>N</i> Â-methyl-D-aspartate Receptor Currents. Anesthesiology, 2012, 116, 673-682.	2.5	17
44	Real-Time Imaging of Amygdalar Network Dynamics <i>In Vitro</i> Reveals a Neurophysiological Link to Behavior in a Mouse Model of Extremes in Trait Anxiety. Journal of Neuroscience, 2013, 33, 16262-16267.	3.6	16
45	Development of New Photoswitchable Azobenzene Based Î ³ -Aminobutyric Acid (GABA) Uptake Inhibitors with Distinctly Enhanced Potency upon Photoactivation. Journal of Medicinal Chemistry, 2018, 61, 6211-6235.	6.4	15
46	lsoflurane slows inactivation kinetics of rat recombinant α1β2γ2L GABAA receptors: enhancement of GABAergic transmission despite an open-channel block. Neuroscience Letters, 2001, 307, 97-100.	2.1	12
47	Effects of sensory deprivation on columnar organization of neuronal circuits in the rat barrel cortex. European Journal of Neuroscience, 2004, 20, 1118-1124.	2.6	12
48	Extracellular signalâ€regulated kinase phosphorylation in forebrain neurones contributes to osmoregulatory mechanisms. Journal of Physiology, 2014, 592, 1637-1654.	2.9	12
49	Optogenetic evocation of field inhibitory postsynaptic potentials in hippocampal slices: a simple and reliable approach for studying pharmacological effects on GABAA and GABAB receptor-mediated neurotransmission. Frontiers in Cellular Neuroscience, 2014, 8, 2.	3.7	11
50	Desipramine targets astrocytes to attenuate synaptic plasticity via modulation of the ephrinA3/EphA4 signalling. Neuropharmacology, 2016, 105, 154-163.	4.1	11
51	High-Speed imaging reveals opposing effects of chronic stress and antidepressants on neuronal activity propagation through the hippocampal trisynaptic circuit. Frontiers in Neural Circuits, 2015, 9, 70.	2.8	10
52	The potassium channel modulator flupirtine shifts the frequency–response function of hippocampal synapses to favour LTD in mice. Neuroscience Letters, 2004, 370, 186-190.	2.1	8
53	Loss of the psychiatric risk factor SLC6A15 is associated with increased metabolic functions in primary hippocampal neurons. European Journal of Neuroscience, 2021, 53, 390-401.	2.6	8
54	Local Optogenetic Induction of Fast (20–40 Hz) Pyramidal-Interneuron Network Oscillations in the In Vitro and In Vivo CA1 Hippocampus: Modulation by CRF and Enforcement of Perirhinal Theta Activity. Frontiers in Cellular Neuroscience, 2016, 10, 108.	3.7	7

MATTHIAS EDER

#	Article	IF	CITATIONS
55	Sensory deprivation changes the pattern of synaptic connectivity in rat barrel cortex. NeuroReport, 2003, 14, 1787-1791.	1.2	6
56	WIN 55,212-2 decreases the spatial spread of neocortical excitation in vitro. NeuroReport, 2005, 16, 993-996.	1.2	4
57	Infrared-Guided Laser Stimulation as a Tool for Elucidating the Synaptic Site of Expression of Long-Term Synaptic Plasticity. Methods in Molecular Biology, 2007, 403, 113-122.	0.9	3
58	Infrared-Guided Laser Stimulation of Neurons in Brain Slices. Cold Spring Harbor Protocols, 2008, 2008, 2008, pdb.prot4851-pdb.prot4851.	0.3	0
59	Grundlagen der Physiologie von Nervenzellen. , 2008, , 61-69.		0