

Valentin Stein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7766117/publications.pdf>

Version: 2024-02-01

43
papers

6,774
citations

147801

31
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

7941
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Structure and Physiological Function of Chloride Channels. <i>Physiological Reviews</i> , 2002, 82, 503-568.	28.8	1,120
2	Barttin is a Cl ⁻ channel β -subunit crucial for renal Cl ⁻ reabsorption and inner ear K ⁺ secretion. <i>Nature</i> , 2001, 414, 558-561.	27.8	538
3	Disruption of KCC2 Reveals an Essential Role of K-Cl Cotransport Already in Early Synaptic Inhibition. <i>Neuron</i> , 2001, 30, 515-524.	8.1	530
4	Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K ⁺ channels causes epilepsy. <i>Nature</i> , 1998, 396, 687-690.	27.8	486
5	A genetically encoded calcium indicator for chronic in vivo two-photon imaging. <i>Nature Methods</i> , 2008, 5, 805-811.	19.0	458
6	Synapse-Specific and Developmentally Regulated Targeting of AMPA Receptors by a Family of MAGUK Scaffolding Proteins. <i>Neuron</i> , 2006, 52, 307-320.	8.1	346
7	Bidirectional Synaptic Plasticity Regulated by Phosphorylation of Stargazin-like TARPs. <i>Neuron</i> , 2005, 45, 269-277.	8.1	311
8	Postsynaptic Density-95 Mimics and Occludes Hippocampal Long-Term Potentiation and Enhances Long-Term Depression. <i>Journal of Neuroscience</i> , 2003, 23, 5503-5506.	3.6	292
9	Male germ cells and photoreceptors, both dependent on close cell-cell interactions, degenerate upon ClC-2 Cl ⁻ channel disruption. <i>EMBO Journal</i> , 2001, 20, 1289-1299.	7.8	287
10	Expression of the KCl cotransporter KCC2 parallels neuronal maturation and the emergence of low intracellular chloride. <i>Journal of Comparative Neurology</i> , 2004, 468, 57-64.	1.6	261
11	Mutations in CAV3 cause mechanical hyperirritability of skeletal muscle in rippling muscle disease. <i>Nature Genetics</i> , 2001, 28, 218-219.	21.4	206
12	SynCAMs Organize Synapses through Heterophilic Adhesion. <i>Journal of Neuroscience</i> , 2007, 27, 12516-12530.	3.6	180
13	SynCAM 1 Adhesion Dynamically Regulates Synapse Number and Impacts Plasticity and Learning. <i>Neuron</i> , 2010, 68, 894-906.	8.1	149
14	GABA Generates Excitement. <i>Neuron</i> , 2003, 37, 375-378.	8.1	131
15	NKCC1-Dependent GABAergic Excitation Drives Synaptic Network Maturation during Early Hippocampal Development. <i>Journal of Neuroscience</i> , 2009, 29, 3419-3430.	3.6	127
16	Chloride dependence of hyperpolarization-activated chloride channel gates. <i>Journal of Physiology</i> , 1999, 515, 341-353.	2.9	110
17	Cryo-electron tomography reveals a critical role of RIM1 β in synaptic vesicle tethering. <i>Journal of Cell Biology</i> , 2013, 201, 725-740.	5.2	110
18	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. <i>Neuron</i> , 2015, 88, 1165-1172.	8.1	102

#	ARTICLE	IF	CITATIONS
19	Serine phosphorylation of ephrinB2 regulates trafficking of synaptic AMPA receptors. <i>Nature Neuroscience</i> , 2008, 11, 1035-1043.	14.8	100
20	MicroRNA-9 controls dendritic development by targeting REST. <i>ELife</i> , 2014, 3, .	6.0	88
21	Neddylation inhibition impairs spine development, destabilizes synapses and deteriorates cognition. <i>Nature Neuroscience</i> , 2015, 18, 239-251.	14.8	88
22	Electrical Activity Suppresses Axon Growth through Cav1.2 Channels in Adult Primary Sensory Neurons. <i>Current Biology</i> , 2010, 20, 1154-1164.	3.9	87
23	Midbody Positioning and Distance Between Daughter Nuclei Enable Unequivocal Identification of Cardiomyocyte Cell Division in Mice. <i>Circulation Research</i> , 2018, 123, 1039-1052.	4.5	82
24	CLC-2 Voltage-Gated Channels Constitute Part of the Background Conductance and Assist Chloride Extrusion. <i>Journal of Neuroscience</i> , 2010, 30, 4776-4786.	3.6	76
25	Endogenous Brain-Derived Neurotrophic Factor Triggers Fast Calcium Transients at Synapses in Developing Dendrites. <i>Journal of Neuroscience</i> , 2007, 27, 1097-1105.	3.6	69
26	Stress-primed secretory autophagy promotes extracellular BDNF maturation by enhancing MMP9 secretion. <i>Nature Communications</i> , 2021, 12, 4643.	12.8	50
27	Molecular and Electrophysiological Characterization of GFP-Expressing CA1 Interneurons in GAD65-GFP Mice. <i>PLoS ONE</i> , 2010, 5, e15915.	2.5	48
28	Tyrosine Phosphorylation Sites in ephrinB2 Are Required for Hippocampal Long-Term Potentiation But Not Long-Term Depression. <i>Journal of Neuroscience</i> , 2007, 27, 11279-11288.	3.6	47
29	Pathophysiology of KCNQ Channels: Neonatal Epilepsy and Progressive Deafness. <i>Epilepsia</i> , 2000, 41, 1068-1069.	5.1	40
30	Stargazin modulates AMPA receptor antagonism. <i>Neuropharmacology</i> , 2008, 54, 1062-1070.	4.1	36
31	AMPA Receptors Commandeer an Ancient Cargo Exporter for Use as an Auxiliary Subunit for Signaling. <i>PLoS ONE</i> , 2012, 7, e30681.	2.5	34
32	Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. <i>PLoS ONE</i> , 2018, 13, e0197886.	2.5	34
33	Genetic Evidence for the Adhesion Protein IgSF9/Dasm1 to Regulate Inhibitory Synapse Development Independent of its Intracellular Domain. <i>Journal of Neuroscience</i> , 2014, 34, 4187-4199.	3.6	27
34	Nanoparticle-based delivery enhances anti-inflammatory effect of low molecular weight heparin in experimental ulcerative colitis. <i>Drug Delivery</i> , 2017, 24, 811-817.	5.7	24
35	Molecular and neurocircuitry mechanisms of social avoidance. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 1163-1189.	5.4	21
36	In vivo imaging demonstrates dendritic spine stabilization by SynCAM 1. <i>Scientific Reports</i> , 2016, 6, 24241.	3.3	14

#	ARTICLE	IF	CITATIONS
37	<scp>S</scp>yn<scp>CAM</scp> 1 improves survival of adult-born neurons by accelerating synapse maturation. Hippocampus, 2016, 26, 319-328.	1.9	13
38	Neddylation regulates excitatory synaptic transmission and plasticity. Scientific Reports, 2019, 9, 17935.	3.3	13
39	Depletion of the AMPAR reserve pool impairs synaptic plasticity in a model of hepatic encephalopathy. Molecular and Cellular Neurosciences, 2015, 68, 331-339.	2.2	11
40	Stress vulnerability shapes disruption of motor cortical neuroplasticity. Translational Psychiatry, 2022, 12, 91.	4.8	11
41	Cargo-free particles of ammonio methacrylate copolymers: From pharmaceutical inactive ingredients to effective anticancer immunotherapeutics. Biomaterials, 2018, 166, 1-12.	11.4	9
42	Nanoparticles' properties modify cell type-dependent distribution in immune cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102244.	3.3	4
43	Modulation of Nanostructure-Based Lipopolysaccharide Active Immunotherapy in Cancer: Size and Composition Determine Short- and Long-Term Tolerability. Molecular Pharmaceutics, 2019, 16, 4507-4518.	4.6	2