

Valentin Stein

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

6,774
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147801

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254184

43
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docs citations

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times ranked

7941
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Stress vulnerability shapes disruption of motor cortical neuroplasticity. <i>Translational Psychiatry</i> , 2022, 12, 91. | 4.8 | 11 |
| 2 | Molecular and neurocircuitry mechanisms of social avoidance. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 1163-1189. | 5.4 | 21 |
| 3 | Stress-primed secretory autophagy promotes extracellular BDNF maturation by enhancing MMP9 secretion. <i>Nature Communications</i> , 2021, 12, 4643. | 12.8 | 50 |
| 4 | Nanoparticles' properties modify cell type-dependent distribution in immune cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102244. | 3.3 | 4 |
| 5 | Modulation of Nanostructure-Based Lipopolysaccharide Active Immunotherapy in Cancer: Size and Composition Determine Short- and Long-Term Tolerability. <i>Molecular Pharmaceutics</i> , 2019, 16, 4507-4518. | 4.6 | 2 |
| 6 | Neddylaton regulates excitatory synaptic transmission and plasticity. <i>Scientific Reports</i> , 2019, 9, 17935. | 3.3 | 13 |
| 7 | Cargo-free particles of ammonio methacrylate copolymers: From pharmaceutical inactive ingredients to effective anticancer immunotherapeutics. <i>Biomaterials</i> , 2018, 166, 1-12. | 11.4 | 9 |
| 8 | Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. <i>PLoS ONE</i> , 2018, 13, e0197886. | 2.5 | 34 |
| 9 | 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 |
| 10 | 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 |
| 11 | ScpCAM 1 improves survival of adult-born neurons by accelerating synapse maturation. <i>Hippocampus</i> , 2016, 26, 319-328. | 1.9 | 13 |
| 12 | In vivo imaging demonstrates dendritic spine stabilization by SynCAM 1. <i>Scientific Reports</i> , 2016, 6, 24241. | 3.3 | 14 |
| 13 | Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. <i>Neuron</i> , 2015, 88, 1165-1172. | 8.1 | 102 |
| 14 | Neddylaton inhibition impairs spine development, destabilizes synapses and deteriorates cognition. <i>Nature Neuroscience</i> , 2015, 18, 239-251. | 14.8 | 88 |
| 15 | Depletion of the AMPAR reserve pool impairs synaptic plasticity in a model of hepatic encephalopathy. <i>Molecular and Cellular Neurosciences</i> , 2015, 68, 331-339. | 2.2 | 11 |
| 16 | MicroRNA-9 controls dendritic development by targeting REST. <i>ELife</i> , 2014, 3, . | 6.0 | 88 |
| 17 | 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 |
| 18 | Cryo-electron tomography reveals a critical role of RIM1 in synaptic vesicle tethering. <i>Journal of Cell Biology</i> , 2013, 201, 725-740. | 5.2 | 110 |

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|----|--|------|-----------|
| 19 | AMPA Receptors Commandeer an Ancient Cargo Exporter for Use as an Auxiliary Subunit for Signaling. PLoS ONE, 2012, 7, e30681. | 2.5 | 34 |
| 20 | Electrical Activity Suppresses Axon Growth through Cav1.2 Channels in Adult Primary Sensory Neurons. Current Biology, 2010, 20, 1154-1164. | 3.9 | 87 |
| 21 | Molecular and Electrophysiological Characterization of GFP-Expressing CA1 Interneurons in GAD65-GFP Mice. PLoS ONE, 2010, 5, e15915. | 2.5 | 48 |
| 22 | ClC-2 Voltage-Gated Channels Constitute Part of the Background Conductance and Assist Chloride Extrusion. Journal of Neuroscience, 2010, 30, 4776-4786. | 3.6 | 76 |
| 23 | SynCAM 1 Adhesion Dynamically Regulates Synapse Number and Impacts Plasticity and Learning. Neuron, 2010, 68, 894-906. | 8.1 | 149 |
| 24 | NKCC1-Dependent GABAergic Excitation Drives Synaptic Network Maturation during Early Hippocampal Development. Journal of Neuroscience, 2009, 29, 3419-3430. | 3.6 | 127 |
| 25 | A genetically encoded calcium indicator for chronic in vivo two-photon imaging. Nature Methods, 2008, 5, 805-811. | 19.0 | 458 |
| 26 | Serine phosphorylation of ephrinB2 regulates trafficking of synaptic AMPA receptors. Nature Neuroscience, 2008, 11, 1035-1043. | 14.8 | 100 |
| 27 | Stargazin modulates AMPA receptor antagonism. Neuropharmacology, 2008, 54, 1062-1070. | 4.1 | 36 |
| 28 | SynCAMs Organize Synapses through Heterophilic Adhesion. Journal of Neuroscience, 2007, 27, 12516-12530. | 3.6 | 180 |
| 29 | Tyrosine Phosphorylation Sites in ephrinB2 Are Required for Hippocampal Long-Term Potentiation But Not Long-Term Depression. Journal of Neuroscience, 2007, 27, 11279-11288. | 3.6 | 47 |
| 30 | Endogenous Brain-Derived Neurotrophic Factor Triggers Fast Calcium Transients at Synapses in Developing Dendrites. Journal of Neuroscience, 2007, 27, 1097-1105. | 3.6 | 69 |
| 31 | Synapse-Specific and Developmentally Regulated Targeting of AMPA Receptors by a Family of MAGUK Scaffolding Proteins. Neuron, 2006, 52, 307-320. | 8.1 | 346 |
| 32 | Bidirectional Synaptic Plasticity Regulated by Phosphorylation of Stargazin-like TARPs. Neuron, 2005, 45, 269-277. | 8.1 | 311 |
| 33 | Expression of the KCl cotransporter KCC2 parallels neuronal maturation and the emergence of low intracellular chloride. Journal of Comparative Neurology, 2004, 468, 57-64. | 1.6 | 261 |
| 34 | GABA Generates Excitement. Neuron, 2003, 37, 375-378. | 8.1 | 131 |
| 35 | Postsynaptic Density-95 Mimics and Occludes Hippocampal Long-Term Potentiation and Enhances Long-Term Depression. Journal of Neuroscience, 2003, 23, 5503-5506. | 3.6 | 292 |
| 36 | Molecular Structure and Physiological Function of Chloride Channels. Physiological Reviews, 2002, 82, 503-568. | 28.8 | 1,120 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Mutations in CAV3 cause mechanical hyperirritability of skeletal muscle in rippling muscle disease. <i>Nature Genetics</i> , 2001, 28, 218-219. | 21.4 | 206 |
| 40 | 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 |
| 41 | Pathophysiology of KCNQ Channels: Neonatal Epilepsy and Progressive Deafness. <i>Epilepsia</i> , 2000, 41, 1068-1069. | 5.1 | 40 |
| 42 | Chloride dependence of hyperpolarization-activated chloride channel gates. <i>Journal of Physiology</i> , 1999, 515, 341-353. | 2.9 | 110 |
| 43 | Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K ⁺ channels causes epilepsy. <i>Nature</i> , 1998, 396, 687-690. | 27.8 | 486 |