Stanislav S Zakharenko

List of Publications by Year
in descending order

60	7,269	109321	138484
papers	citations	35 h-index	58 g-index

63	63	63	10770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Perivascular Niche for Brain Tumor Stem Cells. Cancer Cell, 2007, 11, 69-82.	16.8	1,994
2	Prominin 1 marks intestinal stem cells that are susceptible to neoplastic transformation. Nature, 2009, 457, 603-607.	27.8	617
3	Heterosynaptic Dopamine Neurotransmission Selects Sets of Corticostriatal Terminals. Neuron, 2004, 42, 653-663.	8.1	337
4	LC3-Associated Endocytosis Facilitates Î²-Amyloid Clearance and Mitigates Neurodegeneration in Murine Alzheimerâ€™s Disease. Cell, 2019, 178, 536-551.e14.	28.9	326
5	FMRP Regulates Neurotransmitter Release and Synaptic Information Transmission by Modulating Action Potential Duration via BK Channels. Neuron, 2013, 77, 696-711.	8.1	307
6	Presynaptic BDNF Required for a Presynaptic but Not Postsynaptic Component of LTP at Hippocampal CA1-CA3 Synapses. Neuron, 2003, 39, 975-990.	8.1	288
7	Visualization of changes in presynaptic function during long-term synaptic plasticity. Nature Neuroscience, 2001, 4, 711-717.	14.8	287
8	Transcriptional and behavioral interaction between 22q11.2 orthologs modulates schizophrenia-related phenotypes in mice. Nature Neuroscience, 2005, 8, 1586-1594.	14.8	237
9	stathmin, a Gene Enriched in the Amygdala, Controls Both Learned and Innate Fear. Cell, 2005, 123, 697-709.	28.9	217
10	Transient expansion of synaptically connected dendritic spines upon induction of hippocampal long-term potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16665-16670.	7.1	213
11	Differentiated Horizontal Interneurons Clonally Expand to Form Metastatic Retinoblastoma in Mice. Cell, 2007, 131, 378-390.	28.9	174
12	Phosphatase and tensin homolog, deleted on chromosome 10 deficiency in brain causes defects in synaptic structure, transmission and plasticity, and myelination abnormalities. Neuroscience, 2008, 151, 476-488.	2.3	170
13	Altered Presynaptic Vesicle Release and Cycling during mGluR-Dependent LTD. Neuron, 2002, 35, 1099-1110.	8.1	120
14	Age-Dependent MicroRNA Control of Synaptic Plasticity in 22q11 Deletion Syndrome and Schizophrenia. Journal of Neuroscience, 2012, 32, 14132-14144.	3.6	108
15	Specific disruption of thalamic inputs to the auditory cortex in schizophrenia models. Science, 2014, 344, 1178-1182.	12.6	107
16	Neurotransmitter Secretion along Growing Nerve Processes: Comparison with Synaptic Vesicle Exocytosis. Journal of Cell Biology, 1999, 144, 507-518.	5.2	94
17	Dynamics of Axonal Microtubules Regulate the Topology of New Membrane Insertion into the Growing Neurites. Journal of Cell Biology, 1998, 143, 1077-1086.	5.2	92
18	Slow Presynaptic and Fast Postsynaptic Components of Compound Long-Term Potentiation. Journal of Neuroscience, 2007, 27, 11510-11521.	3.6	87

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19	Phosphatase and tensin homologue (PTEN) regulates synaptic plasticity independently of its effect on neuronal morphology and migration. Journal of Physiology, 2012, 590, 777-792.	2.9	82
20	Connectivity Patterns Revealed by Mapping of Active Inputs on Dendrites of Thalamorecipient Neurons in the Auditory Cortex. Journal of Neuroscience, 2009, 29, 6406-6417.	3.6	80
21	Calcium Release from Presynaptic Ryanodine-Sensitive Stores Is Required for Long-Term Depression at Hippocampal CA3-CA3 Pyramidal Neuron Synapses. Journal of Neuroscience, 2004, 24, 9612-9622.	3.6	70
22	Dysregulation of Presynaptic Calcium and Synaptic Plasticity in a Mouse Model of 22q11 Deletion Syndrome. Journal of Neuroscience, 2010, 30, 15843-15855.	3.6	68
23	Haploinsufficiency of the 22q11.2 microdeletion gene Mrpl40 disrupts short-term synaptic plasticity and working memory through dysregulation of mitochondrial calcium. Molecular Psychiatry, 2017, 22, 1313-1326.	7.9	68
24	Dissecting the Components of Long-Term Potentiation. Neuroscientist, 2008, 14, 598-608.	3.5	67
25	Impaired Locomotor Learning and Altered Cerebellar Synaptic Plasticity in pep-19/pcp4-Null Mice. Molecular and Cellular Biology, 2011, 31, 2838-2844.	2.3	66
26	Thalamocortical Long-Term Potentiation Becomes Gated after the Early Critical Period in the Auditory Cortex. Journal of Neuroscience, 2013, 33, 7345-7357.	3.6	63
27	Genetic evidence for a protein-kinase-A-mediated presynaptic component in NMDA-receptor-dependent forms of long-term synaptic potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9365-9370.	7.1	62
28	Noncanonical function of an autophagy protein prevents spontaneous Alzheimerâ€™s disease. Science Advances, 2020, 6, eabb9036.	10.3	62
29	Presynaptic Gating of Postsynaptically Expressed Plasticity at Mature Thalamocortical Synapses. Journal of Neuroscience, 2011, 31, 16012-16025.	3.6	57
30	Thalamic miR-338-3p mediates auditory thalamocortical disruption and its late onset in models of 22q11.2 microdeletion. Nature Medicine, 2017, 23, 39-48.	30.7	55
31	Orphan Glutamate Receptor Î´1 Subunit Required for High-Frequency Hearing. Molecular and Cellular Biology, 2007, 27, 4500-4512.	2.3	53
32	Coactivation of thalamic and cortical pathways induces input timingâ€“dependent plasticity in amygdala. Nature Neuroscience, 2012, 15, 113-122.	14.8	52
33	CRTC1 Nuclear Translocation Following Learning Modulates Memory Strength via Exchange of Chromatin Remodeling Complexes on the Fgf1 Gene. Cell Reports, 2017, 18, 352-366.	6.4	49
34	Non-coding RNA regulation of synaptic plasticity and memory: Implications for aging. Ageing Research Reviews, 2014, 17, 34-42.	10.9	42
35	Restoring auditory cortex plasticity in adult mice by restricting thalamic adenosine signaling. Science, 2017, 356, 1352-1356.	12.6	40
36	Pten deletion causes mTorc1-dependent ectopic neuroblast differentiation without causing uniform migration defects. Development (Cambridge), 2012, 139, 3422-3431.	2.5	37

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37	Mitochondria in complex psychiatric disorders: Lessons from mouse models of 22q11.2 deletion syndrome. BioEssays, 2017, 39, 1600177.	2.5	33
38	Forward Suppression in the Auditory Cortex Is Caused by the Ca_v3.1 Calcium Channel-Mediated Switch from Bursting to Tonic Firing at Thalamocortical Projections. Journal of Neuroscience, 2013, 33, 18940-18950.	3.6	30
39	The COPII cargo adapter SEC24C is essential for neuronal homeostasis. Journal of Clinical Investigation, 2018, 128, 3319-3332.	8.2	30
40	Distribution of neurotransmitter secretion in growing axons. Neuroscience, 1999, 90, 975-984.	2.3	29
41	Plasma membrane recycling and flow in growing neurites. Neuroscience, 2000, 97, 185-194.	2.3	29
42	Hydroxyurea therapy of a murine model of sickle cell anemia inhibits the progression of pneumococcal disease by down-modulating E-selectin. Blood, 2012, 119, 1915-1921.	1.4	29
43	Presynaptic Gating of Postsynaptic Synaptic Plasticity. Neuroscientist, 2013, 19, 465-478.	3.5	28
44	Schizophrenia-related microdeletion causes defective ciliary motility and brain ventricle enlargement via microRNA-dependent mechanisms in mice. Nature Communications, 2020, 11, 912.	12.8	25
45	MicroRNAs in the Onset of Schizophrenia. Cells, 2021, 10, 2679.	4.1	23
46	A Synaptic Function Approach to Investigating Complex Psychiatric Diseases. Neuroscientist, 2014, 20, 257-271.	3.5	22
47	Fast, Simple Calcium Imaging Segmentation with Fully Convolutional Networks. Lecture Notes in Computer Science, 2017, , 285-293.	1.3	22
48	Rejuvenation of plasticity in the brain: opening the critical period. Current Opinion in Neurobiology, 2019, 54, 83-89.	4.2	18
49	SCYL2 Protects CA3 Pyramidal Neurons from Excitotoxicity during Functional Maturation of the Mouse Hippocampus. Journal of Neuroscience, 2015, 35, 10510-10522.	3.6	15
50	Effects of prostaglandins E1 and E2 on cultured smooth muscle cells and strips of rat aorta. Prostaglandins, 1994, 47, 353-365.	1.2	14
51	Schizophrenia-Related Microdeletion Impairs Emotional Memory through MicroRNA-Dependent Disruption of Thalamic Inputs to the Amygdala. Cell Reports, 2017, 19, 1532-1544.	6.4	14
52	A Case for Thalamic Mechanisms of Schizophrenia: Perspective From Modeling 22q11.2 Deletion Syndrome. Frontiers in Neural Circuits, 2021, 15, 769969.	2.8	13
53	Identification of small molecules that mitigate vincristineâ€induced neurotoxicity while sensitizing leukemia cells to vincristine. Clinical and Translational Science, 2021, 14, 1490-1504.	3.1	12
54	FMRP Regulates Neurotransmitter Release and Synaptic Information Transmission by Modulating Action Potential Duration via BK Channels. Neuron, 2013, 78, 205.	8.1	8

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55	A Comprehensive Analysis of Cerebellar Volumes in the 22q11.2 Deletion Syndrome. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2023, 8, 79-90.	1.5	5
56	Retinoblastoma (Rb) regulates laminar dendritic arbor reorganization in retinal horizontal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21111-21116.	7.1	4
57	Msh2 deficiency leads to dysmyelination of the corpus callosum, impaired locomotion and altered sensory function in mice. Scientific Reports, 2016, 6, 30757.	3.3	3
58	Dendritic locations and dendritic spine morphology determine effectiveness of thalamocortical pathways in the auditory cortex. , 2009, , .		0
59	10.4 Thalamocortical Disruption in Mouse Models of 22Q11 Deletion Syndrome. Journal of the American Academy of Child and Adolescent Psychiatry, 2018, 57, S284.	0.5	0
60	Pten deletion causes mTorc1-dependent ectopic neuroblast differentiation without causing uniform migration defects. Journal of Cell Science, 2012, 125, e1-e1.	2.0	0