Jakub Wlodarczyk

List of Publications by Year
in descending order

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Version: 2024-02-01

35	1,921	304743	395702
papers	citations	22 h-index	33 g-index

36	36	36	2424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3dSpAn: An interactive software for 3D segmentation and analysis of dendritic spines. Neuroinformatics, 2022, 20, 679-698.	2.8	10
2	Activation of the 5-HT7 receptor and MMP-9 signaling module in the hippocampal CA1 region is necessary for the development of depressive-like behavior. Cell Reports, 2022, 38, 110532.	6.4	18
3	MMP-9 Signaling Pathways That Engage Rho GTPases in Brain Plasticity. Cells, 2021, 10, 166.	4.1	12
4	RFCM-PALM: In-Silico Prediction of S-Palmitoylation Sites in the Synaptic Proteins for Male/Female Mouse Data. International Journal of Molecular Sciences, 2021, 22, 9901.	4.1	2
5	DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels. Journal of Biological Chemistry, 2020, 295, 5970-5983.	3.4	9
6	Serotonin 5-HT4 receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. Communications Biology, 2020, 3, 76.	4.4	26
7	Stress-induced Changes in the S-palmitoylation and S-nitrosylation of Synaptic Proteins*[S]. Molecular and Cellular Proteomics, 2019, 18, 1916-1938.	3.8	39
8	Prophylactic Ketamine Treatment Promotes Resilience to Chronic Stress and Accelerates Recovery: Correlation with Changes in Synaptic Plasticity in the CA3 Subregion of the Hippocampus. International Journal of Molecular Sciences, 2019, 20, 1726.	4.1	36
9	Chronic unpredictable mild stress for modeling depression in rodents: Meta-analysis of model reliability. Neuroscience and Biobehavioral Reviews, 2019, 99, 101-116.	6.1	375
10	Synaptic Potentiation at Basal and Apical Dendrites of Hippocampal Pyramidal Neurons Involves Activation of a Distinct Set of Extracellular and Intracellular Molecular Cues. Cerebral Cortex, 2019, 29, 283-304.	2.9	27
11	Quantitative 3-D morphometric analysis of individual dendritic spines. Scientific Reports, 2018, 8, 3545.	3.3	26
12	Segmentation and assessment of structural plasticity of hippocampal dendritic spines from 3D confocal light microscopy. , 2018, , .		0
13	Synaptic Remodeling Depends on Signaling between Serotonin Receptors and the Extracellular Matrix. Cell Reports, 2017, 19, 1767-1782.	6.4	92
14	2dSpAn: semiautomated 2-d segmentation, classification and analysis of hippocampal dendritic spine plasticity. Bioinformatics, 2016, 32, 2490-2498.	4.1	24
15	CD44: a novel synaptic cell adhesion molecule regulating structural and functional plasticity of dendritic spines. Molecular Biology of the Cell, 2016, 27, 4055-4066.	2.1	58
16	Transient ECM protease activity promotes synaptic plasticity. Scientific Reports, 2016, 6, 27757.	3.3	53
17	Dystroglycan controls dendritic morphogenesis of hippocampal neurons in vitro. Frontiers in Cellular Neuroscience, 2015, 9, 199.	3.7	21
18	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. Oncotarget, 2015, 6, 14065-14081.	1.8	25

#	Article	IF	Citations
19	Matrix metalloproteinase-9 involvement in the structural plasticity of dendritic spines. Frontiers in Neuroanatomy, 2014, 8, 68.	1.7	66
20	Current microscopic methods for the neural ECM analysis. Progress in Brain Research, 2014, 214, 287-312.	1.4	4
21	CD44 regulates dendrite morphogenesis through Src tyrosine kinase-dependent positioning of the Golgi apparatus. Journal of Cell Science, 2014, 127, 5038-51.	2.0	41
22	Genetically encoded FRET-based biosensor for imaging MMP-9 activity. Biomaterials, 2014, 35, 1402-1410.	11.4	42
23	Synaptically Released Matrix Metalloproteinase Activity in Control of Structural Plasticity and the Cell Surface Distribution of GluA1-AMPA Receptors. PLoS ONE, 2014, 9, e98274.	2.5	76
24	Matrix Metalloproteinases Regulate the Formation of Dendritic Spine Head Protrusions during Chemically Induced Long-Term Potentiation. PLoS ONE, 2013, 8, e63314.	2.5	63
25	Multi-parametric imaging of murine brain using spectral and time domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 101515.	2.6	5
26	MMP9: A novel function in synaptic plasticity. International Journal of Biochemistry and Cell Biology, 2012, 44, 709-713.	2.8	103
27	Sampling issues in quantitative analysis of dendritic spines morphology. BMC Bioinformatics, 2012, 13, 213.	2.6	66
28	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. Developmental Neurobiology, 2011, 71, 1040-1053.	3.0	115
29	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. Journal of Cell Science, 2011, 124, 3369-3380.	2.0	200
30	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. Development (Cambridge), 2011, 138, e2008-e2008.	2.5	0
31	Signal/Noise Analysis of FRET-Based Sensors. Biophysical Journal, 2010, 99, 2344-2354.	0.5	46
32	CD44 is expressed in non-myelinating Schwann cells of the adult rat, and may play a role in neurodegeneration-induced glial plasticity at the neuromuscular junction. Neurobiology of Disease, 2009, 34, 245-258.	4.4	31
33	Specific oligomerization of the 5-HT1A receptor in the plasma membrane. Glycoconjugate Journal, 2009, 26, 749-756.	2.7	30
34	Stimulation- and palmitoylation-dependent changes in oligomeric conformation of serotonin 5-HT1A receptorsi. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1503-1516.	4.1	48
35	Analysis of FRET Signals in the Presence of Free Donors and Acceptors. Biophysical Journal, 2008, 94, 986-1000.	0.5	130