

Jakub Włodarczyk

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,921
citations

304743

22
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2424
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic unpredictable mild stress for modeling depression in rodents: Meta-analysis of model reliability. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 99, 101-116.	6.1	375
2	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. <i>Journal of Cell Science</i> , 2011, 124, 3369-3380.	2.0	200
3	Analysis of FRET Signals in the Presence of Free Donors and Acceptors. <i>Biophysical Journal</i> , 2008, 94, 986-1000.	0.5	130
4	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. <i>Developmental Neurobiology</i> , 2011, 71, 1040-1053.	3.0	115
5	MMP9: A novel function in synaptic plasticity. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 709-713.	2.8	103
6	Synaptic Remodeling Depends on Signaling between Serotonin Receptors and the Extracellular Matrix. <i>Cell Reports</i> , 2017, 19, 1767-1782.	6.4	92
7	Synaptically Released Matrix Metalloproteinase Activity in Control of Structural Plasticity and the Cell Surface Distribution of GluA1-AMPA Receptors. <i>PLoS ONE</i> , 2014, 9, e98274.	2.5	76
8	Sampling issues in quantitative analysis of dendritic spines morphology. <i>BMC Bioinformatics</i> , 2012, 13, 213.	2.6	66
9	Matrix metalloproteinase-9 involvement in the structural plasticity of dendritic spines. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 68.	1.7	66
10	Matrix Metalloproteinases Regulate the Formation of Dendritic Spine Head Protrusions during Chemically Induced Long-Term Potentiation. <i>PLoS ONE</i> , 2013, 8, e63314.	2.5	63
11	CD44: a novel synaptic cell adhesion molecule regulating structural and functional plasticity of dendritic spines. <i>Molecular Biology of the Cell</i> , 2016, 27, 4055-4066.	2.1	58
12	Transient ECM protease activity promotes synaptic plasticity. <i>Scientific Reports</i> , 2016, 6, 27757.	3.3	53
13	Stimulation- and palmitoylation-dependent changes in oligomeric conformation of serotonin 5-HT1A receptors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1503-1516.	4.1	48
14	Signal/Noise Analysis of FRET-Based Sensors. <i>Biophysical Journal</i> , 2010, 99, 2344-2354.	0.5	46
15	Genetically encoded FRET-based biosensor for imaging MMP-9 activity. <i>Biomaterials</i> , 2014, 35, 1402-1410.	11.4	42
16	CD44 regulates dendrite morphogenesis through Src tyrosine kinase-dependent positioning of the Golgi apparatus. <i>Journal of Cell Science</i> , 2014, 127, 5038-51.	2.0	41
17	Stress-induced Changes in the S-palmitoylation and S-nitrosylation of Synaptic Proteins*[S]. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1916-1938.	3.8	39
18	Prophylactic Ketamine Treatment Promotes Resilience to Chronic Stress and Accelerates Recovery: Correlation with Changes in Synaptic Plasticity in the CA3 Subregion of the Hippocampus. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1726.	4.1	36

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19	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. <i>Neurobiology of Disease</i> , 2009, 34, 245-258.	4.4	31
20	Specific oligomerization of the 5-HT1A receptor in the plasma membrane. <i>Glycoconjugate Journal</i> , 2009, 26, 749-756.	2.7	30
21	Synaptic Potentiation at Basal and Apical Dendrites of Hippocampal Pyramidal Neurons Involves Activation of a Distinct Set of Extracellular and Intracellular Molecular Cues. <i>Cerebral Cortex</i> , 2019, 29, 283-304.	2.9	27
22	Quantitative 3-D morphometric analysis of individual dendritic spines. <i>Scientific Reports</i> , 2018, 8, 3545.	3.3	26
23	Serotonin 5-HT4 receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. <i>Communications Biology</i> , 2020, 3, 76.	4.4	26
24	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. <i>Oncotarget</i> , 2015, 6, 14065-14081.	1.8	25
25	2dSpAn: semiautomated 2-d segmentation, classification and analysis of hippocampal dendritic spine plasticity. <i>Bioinformatics</i> , 2016, 32, 2490-2498.	4.1	24
26	Dystroglycan controls dendritic morphogenesis of hippocampal neurons in vitro. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 199.	3.7	21
27	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. <i>Cell Reports</i> , 2022, 38, 110532.	6.4	18
28	MMP-9 Signaling Pathways That Engage Rho GTPases in Brain Plasticity. <i>Cells</i> , 2021, 10, 166.	4.1	12
29	3dSpAn: An interactive software for 3D segmentation and analysis of dendritic spines. <i>Neuroinformatics</i> , 2022, 20, 679-698.	2.8	10
30	DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels. <i>Journal of Biological Chemistry</i> , 2020, 295, 5970-5983.	3.4	9
31	Multi-parametric imaging of murine brain using spectral and time domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 101515.	2.6	5
32	Current microscopic methods for the neural ECM analysis. <i>Progress in Brain Research</i> , 2014, 214, 287-312.	1.4	4
33	RFCM-PALM: In-Silico Prediction of S-Palmitoylation Sites in the Synaptic Proteins for Male/Female Mouse Data. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9901.	4.1	2
34	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. <i>Development (Cambridge)</i> , 2011, 138, e2008-e2008.	2.5	0
35	Segmentation and assessment of structural plasticity of hippocampal dendritic spines from 3D confocal light microscopy. , 2018, , .		0