

Jakub WÅ,odarczyk

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,190
citations

186265

28
h-index

175258

52
g-index

70
all docs

70
docs citations

70
times ranked

4982
citing authors

#	ARTICLE	IF	CITATIONS
1	CTCF-Mediated Human 3D Genome Architecture Reveals Chromatin Topology for Transcription. <i>Cell</i> , 2015, 163, 1611-1627.	28.9	881
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	Cellular Senescence in Brain Aging. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 646924.	3.4	129
5	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. <i>Developmental Neurobiology</i> , 2011, 71, 1040-1053.	3.0	115
6	MMP9: A novel function in synaptic plasticity. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 709-713.	2.8	103
7	Attenuated palmitoylation of serotonin receptor 5-HT1A affects receptor function and contributes to depression-like behaviors. <i>Nature Communications</i> , 2019, 10, 3924.	12.8	100
8	Interpretation of Fluorescence Decays using a Power-like Model. <i>Biophysical Journal</i> , 2003, 85, 589-598.	0.5	97
9	Synaptic Remodeling Depends on Signaling between Serotonin Receptors and the Extracellular Matrix. <i>Cell Reports</i> , 2017, 19, 1767-1782.	6.4	92
10	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
11	Sampling issues in quantitative analysis of dendritic spines morphology. <i>BMC Bioinformatics</i> , 2012, 13, 213.	2.6	66
12	Matrix metalloproteinase-9 involvement in the structural plasticity of dendritic spines. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 68.	1.7	66
13	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
14	Novel Higher-Order Epigenetic Regulation of the <i>Bdnf</i> Gene upon Seizures. <i>Journal of Neuroscience</i> , 2013, 33, 2507-2511.	3.6	62
15	Tunneling nanotube-mediated intercellular vesicle and protein transfer in the stroma-provided imatinib resistance in chronic myeloid leukemia cells. <i>Cell Death and Disease</i> , 2019, 10, 817.	6.3	59
16	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
17	Transient ECM protease activity promotes synaptic plasticity. <i>Scientific Reports</i> , 2016, 6, 27757.	3.3	53
18	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

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19	Insights Into Protein S-Palmitoylation in Synaptic Plasticity and Neurological Disorders: Potential and Limitations of Methods for Detection and Analysis. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 175.	2.9	48
20	Signal/Noise Analysis of FRET-Based Sensors. <i>Biophysical Journal</i> , 2010, 99, 2344-2354.	0.5	46
21	Genetically encoded FRET-based biosensor for imaging MMP-9 activity. <i>Biomaterials</i> , 2014, 35, 1402-1410.	11.4	42
22	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
23	Constitutive Gs-mediated, but not G12-mediated, activity of the 5-hydroxytryptamine 5-HT7(a) receptor is modulated by the palmitoylation of its C-terminal domain. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1646-1655.	4.1	40
24	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
25	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
26	Combination of dasatinib and quercetin improves cognitive abilities in aged male Wistar rats, alleviates inflammation and changes hippocampal synaptic plasticity and histone H3 methylation profile. <i>Aging</i> , 2022, 14, 572-595.	3.1	34
27	Microglia Depletion-Induced Remodeling of Extracellular Matrix and Excitatory Synapses in the Hippocampus of Adult Mice. <i>Cells</i> , 2021, 10, 1862.	4.1	32
28	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
29	Specific oligomerization of the 5-HT1A receptor in the plasma membrane. <i>Glycoconjugate Journal</i> , 2009, 26, 749-756.	2.7	30
30	Fine-structural distribution of MMP-2 and MMP-9 activities in the rat skeletal muscle upon training: a study by high-resolution in situ zymography. <i>Histochemistry and Cell Biology</i> , 2012, 138, 75-87.	1.7	30
31	Quantification of Dendritic Spines Remodeling under Physiological Stimuli and in Pathological Conditions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4053.	4.1	28
32	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
33	Quantitative 3-D morphometric analysis of individual dendritic spines. <i>Scientific Reports</i> , 2018, 8, 3545.	3.3	26
34	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
35	Involvement of cellular metabolism in age-related LTP modifications in rat hippocampal slices. <i>Oncotarget</i> , 2015, 6, 14065-14081.	1.8	25
36	2dSpAn: semiautomated 2-d segmentation, classification and analysis of hippocampal dendritic spine plasticity. <i>Bioinformatics</i> , 2016, 32, 2490-2498.	4.1	24

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37	Dystroglycan controls dendritic morphogenesis of hippocampal neurons in vitro. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 199.	3.7	21
38	Identification of the tautomeric form of formycin A in its complex with Escherichia coli purine nucleoside phosphorylase based on the effect of enzyme-ligand binding on fluorescence and phosphorescence. <i>European Biophysics Journal</i> , 2004, 33, 377-385.	2.2	18
39	Disrupted ATP synthase activity and mitochondrial hyperpolarisation-dependent oxidative stress is associated with p66Shc phosphorylation in fibroblasts of NARP patients. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 141-150.	2.8	18
40	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
41	Matrix Metalloprotease 3 Activity Supports Hippocampal EPSP-to-Spike Plasticity Following Patterned Neuronal Activity via the Regulation of NMDAR Function and Calcium Flux. <i>Molecular Neurobiology</i> , 2017, 54, 804-816.	4.0	15
42	MMP-9 Signaling Pathways That Engage Rho GTPases in Brain Plasticity. <i>Cells</i> , 2021, 10, 166.	4.1	12
43	Arhgef5 Binds β -Dystrobrevin 1 and Regulates Neuromuscular Junction Integrity. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 104.	2.9	10
44	3dSpAn: An interactive software for 3D segmentation and analysis of dendritic spines. <i>Neuroinformatics</i> , 2022, 20, 679-698.	2.8	10
45	A new approach to interpretation of heterogeneity of fluorescence decay: Effect of induced tautomeric shift and enzyme-ligand fluorescence resonance energy transfer. <i>Biophysical Chemistry</i> , 2006, 123, 146-153.	2.8	9
46	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
47	PSD-95 Serine 73 phosphorylation is not required for induction of NMDA-LTD. <i>Scientific Reports</i> , 2020, 10, 2054.	3.3	8
48	S-Palmitoylation of Synaptic Proteins as a Novel Mechanism Underlying Sex-Dependent Differences in Neuronal Plasticity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6253.	4.1	7
49	Kinetics of triplet excitation transport in disordered organic solids. <i>Chemical Physics</i> , 2004, 297, 139-142.	1.9	6
50	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
51	Current microscopic methods for the neural ECM analysis. <i>Progress in Brain Research</i> , 2014, 214, 287-312.	1.4	4
52	Interpretation of intramolecular stacking effect on the fluorescence intensity decay of 3-methylbenzimidazolyl(5'-5'')guanosine dinucleotides using a model of lifetime distribution. <i>European Biophysics Journal</i> , 2006, 35, 424-430.	2.2	2
53	Analysis of proton exchange kinetics with time-dependent exchange rate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 891-898.	2.3	2
54	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

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55	The cell adhesion protein dystroglycan affects the structural remodeling of dendritic spines. <i>Scientific Reports</i> , 2022, 12, 2506.	3.3	2
56	Contemporary Problems in Quantitative Image Analysis in Structural Neuronal Plasticity. , 2014, , 159-175.		1
57	On the origin of non-exponential fluorescence decays in enzyme-ligand complex. , 2004, 5330, 92.		0
58	A new approach to interpretation of heterogeneity of fluorescence decay in complex biological systems. , 2005, 5862, 205.		0
59	A New Approach to Interpretation of Heterogeneity of Fluorescence Decay in Complex Biological Systems. , 2005, , ThE7.		0
60	Interpretation of fluorescence decay kinetics in 3-methylbenzimidazolyl(5 ϵ -5 ϵ)guanosine dinucleotides: exponential dependence on the number of phosphates in the polyphosphate bridge. <i>European Biophysics Journal</i> , 2007, 36, 253-259.	2.2	0
61	Cortical blood flow imaging of mouse stroke model by high-speed Spectral OCT. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
62	Volumetric Doppler imaging of small animal brain using spectral and time domain optical coherence tomography. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
63	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. <i>Development (Cambridge)</i> , 2011, 138, e2008-e2008.	2.5	0
64	Segmentation and assessment of structural plasticity of hippocampal dendritic spines from 3D confocal light microscopy. , 2018, , .		0
65	Optical coherence tomography reveals heterogeneity of the brain tissue and vasculature in the ischemic region after photothrombotic stroke in mice.. <i>Acta Neurobiologiae Experimentalis</i> , 2022, 82, 106-119.	0.7	0