

Michael R Kreutz

List of Publications by Year in descending order

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67
papers

3,054
citations

172386

29
h-index

182361

51
g-index

70
all docs

70
docs citations

70
times ranked

4478
citing authors

#	ARTICLE	IF	CITATIONS
1	Neddylation-dependent protein degradation is a nexus between synaptic insulin resistance, neuroinflammation and Alzheimer's disease. <i>Translational Neurodegeneration</i> , 2022, 11, 2.	3.6	7
2	One-step purification of tag free and soluble lamin B1 from an E. coli bacterial expression system. <i>Protein Expression and Purification</i> , 2022, 193, 106057.	0.6	1
3	Organization of Presynaptic Autophagy-Related Processes. <i>Frontiers in Synaptic Neuroscience</i> , 2022, 14, 829354.	1.3	10
4	The needs of a synapse—How local organelles serve synaptic proteostasis. <i>EMBO Journal</i> , 2022, 41, e110057.	3.5	14
5	Autism-associated SHANK3 missense point mutations impact conformational fluctuations and protein turnover at synapses. <i>ELife</i> , 2021, 10, .	2.8	14
6	Dendritic Kv4.2 potassium channels selectively mediate spatial pattern separation in the dentate gyrus. <i>IScience</i> , 2021, 24, 102876.	1.9	6
7	Transgenic modeling of Ndr2 gene amplification reveals disturbance of hippocampus circuitry and function. <i>IScience</i> , 2021, 24, 102868.	1.9	3
8	The nuclear lamina is a hub for the nuclear function of Jacob. <i>Molecular Brain</i> , 2021, 14, 9.	1.3	6
9	Autophagy and the endolysosomal system in presynaptic function. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2621-2639.	2.4	29
10	Multimomics of synaptic junctions reveals altered lipid metabolism and signaling following environmental enrichment. <i>Cell Reports</i> , 2021, 37, 109797.	2.9	11
11	Jacob, a Synapto-Nuclear Protein Messenger Linking N-methyl-D-aspartate Receptor Activation to Nuclear Gene Expression. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 787494.	1.3	7
12	Molecular Mechanisms of Memory Consolidation That Operate During Sleep. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 767384.	1.4	4
13	Synaptic control of DNA methylation involves activity-dependent degradation of DNMT3A1 in the nucleus. <i>Neuropsychopharmacology</i> , 2020, 45, 2120-2130.	2.8	17
14	Simple Targeted Assays for Metabolic Pathways and Signaling: A Powerful Tool for Targeted Proteomics. <i>Analytical Chemistry</i> , 2020, 92, 13672-13676.	3.2	1
15	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019, 103, 217-234.e4.	3.8	518
16	Caldendrin and Calneurons—EF-Hand CaM-Like Calcium Sensors With Unique Features and Specialized Neuronal Functions. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 16.	1.4	14
17	Radial somatic F-actin organization affects growth cone dynamics during early neuronal development. <i>EMBO Reports</i> , 2019, 20, e47743.	2.0	20
18	SIPA1L2 controls trafficking and local signaling of TrkB-containing amphisomes at presynaptic terminals. <i>Nature Communications</i> , 2019, 10, 5448.	5.8	64

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19	Caldendrin Directly Couples Postsynaptic Calcium Signals to Actin Remodeling in Dendritic Spines. <i>Neuron</i> , 2018, 97, 1110-1125.e14.	3.8	68
20	The role of 19S proteasome associated deubiquitinases in activity-dependent hippocampal synaptic plasticity. <i>Neuropharmacology</i> , 2018, 133, 354-365.	2.0	16
21	Neuronal DNA Methyltransferases: Epigenetic Mediators between Synaptic Activity and Gene Expression?. <i>Neuroscientist</i> , 2018, 24, 171-185.	2.6	67
22	Geclusterte Plastizität bei Langzeitpotenzierung: Wie starke Synapsen bestehen bleiben, um Langzeitgedächtnis aufrechtzuerhalten. <i>Neuroforum</i> , 2018, 24, 195-201.	0.2	0
23	N-Methyl-D-Aspartate Receptor Link to the MAP Kinase Pathway in Cortical and Hippocampal Neurons and Microglia Is Dependent on Calcium Sensors and Is Blocked by β -Synuclein, Tau, and Phospho-Tau in Non-transgenic and Transgenic APPSw,Ind Mice. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 273.	1.4	19
24	Clustered plasticity in Long-Term Potentiation: How strong synapses persist to maintain long-term memory. <i>Neuroforum</i> , 2018, 24, A127-A132.	0.2	1
25	Neuronal Calcium and cAMP Cross-Talk Mediated by Cannabinoid CB1 Receptor and EF-Hand Calcium Sensor Interactions. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 67.	1.8	13
26	The Role of Activity-Dependent DNA Demethylation in the Adult Brain and in Neurological Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 169.	1.4	45
27	Posttranslational modification impact on the mechanism by which amyloid β induces synaptic dysfunction. <i>EMBO Reports</i> , 2017, 18, 962-981.	2.0	50
28	Microtubules Modulate F-actin Dynamics during Neuronal Polarization. <i>Scientific Reports</i> , 2017, 7, 9583.	1.6	30
29	The Segregated Expression of Voltage-Gated Potassium and Sodium Channels in Neuronal Membranes: Functional Implications and Regulatory Mechanisms. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 115.	1.8	51
30	Synaptic GluN2B/CaMKII β Signaling Induces Synapto-Nuclear Transport of ERK and Jacob. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 66.	1.4	25
31	Normal Development and Function of T Cells in Proline Rich 7 (Prr7) Deficient Mice. <i>PLoS ONE</i> , 2016, 11, e0162863.	1.1	3
32	A Jacob/Nsmf Gene Knockout Results in Hippocampal Dysplasia and Impaired BDNF Signaling in Dendritogenesis. <i>PLoS Genetics</i> , 2016, 12, e1005907.	1.5	36
33	What do we learn from the murine Jacob/Nsmf gene knockout for human disease?. <i>Rare Diseases (Austin, Tex)</i> , 2016, 4, e1241361.	1.8	8
34	Plasticity of intrinsic excitability in mature granule cells of the dentate gyrus. <i>Scientific Reports</i> , 2016, 6, 21615.	1.6	41
35	Synaptonuclear messenger β PRR 7 inhibits c-Jun ubiquitination and regulates β NMDA-mediated excitotoxicity. <i>EMBO Journal</i> , 2016, 35, 1923-1934.	3.5	33
36	A Dendritic Golgi Satellite between ERGIC and Retromer. <i>Cell Reports</i> , 2016, 14, 189-199.	2.9	99

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37	Proteomics of the Synapse – A Quantitative Approach to Neuronal Plasticity. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 368-381.	2.5	61
38	A plasmid-based expression system to study protein–protein interactions at the Golgi in vivo. <i>Analytical Biochemistry</i> , 2016, 502, 50-52.	1.1	7
39	Dopamine agonists rescue β -amyloid-induced LTP impairment by Src-family tyrosine kinases. <i>Neurobiology of Aging</i> , 2016, 40, 98-102.	1.5	26
40	Mature granule cells of the dentate gyrus – Passive bystanders or principal performers in hippocampal function?. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 64, 167-174.	2.9	26
41	Ring finger protein 10 is a novel synaptonuclear messenger encoding activation of NMDA receptors in hippocampus. <i>eLife</i> , 2016, 5, e12430.	2.8	39
42	Alternative Splicing, Expression and Cellular Localization of Calneuron-1 in the Rat and Human Brain. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 793-804.	1.3	12
43	Macromolecular transport in synapse to nucleus communication. <i>Trends in Neurosciences</i> , 2015, 38, 108-116.	4.2	69
44	Binding of Y-P30 to Syndecan 2/3 Regulates the Nuclear Localization of CASK. <i>PLoS ONE</i> , 2014, 9, e85924.	1.1	12
45	Inhibition of the Polyamine System Counteracts β -Amyloid Peptide-Induced Memory Impairment in Mice: Involvement of Extrasynaptic NMDA Receptors. <i>PLoS ONE</i> , 2014, 9, e99184.	1.1	45
46	Molecular Dynamics of the Neuronal EF-Hand Ca^{2+} -Sensor Caldendrin. <i>PLoS ONE</i> , 2014, 9, e103186.	1.1	14
47	The roles of protein expression in synaptic plasticity and memory consolidation. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 86.	1.4	125
48	Cellular distribution of the NMDA-receptor activated synapto-nuclear messenger Jacob in the rat brain. <i>Brain Structure and Function</i> , 2014, 219, 843-860.	1.2	23
49	Isolation of CA1 Nuclear Enriched Fractions from Hippocampal Slices to Study Activity-dependent Nuclear Import of Synapto-nuclear Messenger Proteins. <i>Journal of Visualized Experiments</i> , 2014, , e51310.	0.2	6
50	Encoding and Transducing the Synaptic or Extrasynaptic Origin of NMDA Receptor Signals to the Nucleus. <i>Cell</i> , 2013, 152, 1119-1133.	13.5	173
51	AKAP79/150 interacts with the neuronal calcium-binding protein caldendrin. <i>Journal of Neurochemistry</i> , 2012, 122, 714-726.	2.1	17
52	Ca^{2+} sensor proteins in dendritic spines: a race for Ca^{2+} . <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 61.	1.4	33
53	Long-Distance Signaling from Synapse to Nucleus via Protein Messengers. <i>Advances in Experimental Medicine and Biology</i> , 2012, 970, 355-376.	0.8	15
54	From Synapse to Nucleus and Back Again – Communication over Distance within Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 16045-16048.	1.7	34

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55	Early neuronal dysfunction by amyloid β^2 oligomers depends on activation of NR2B-containing NMDA receptors. <i>Neurobiology of Aging</i> , 2011, 32, 2219-2228.	1.5	223
56	Nuclear Translocation of Jacob in Hippocampal Neurons after Stimuli Inducing Long-Term Potentiation but Not Long-Term Depression. <i>PLoS ONE</i> , 2011, 6, e17276.	1.1	46
57	Post-translational Membrane Insertion of Tail-anchored Transmembrane EF-hand Ca^{2+} Sensor Calneurons Requires the TRC40/Asna1 Protein Chaperone. <i>Journal of Biological Chemistry</i> , 2011, 286, 36762-36776.	1.6	28
58	RapGAPs in brain: multipurpose players in neuronal Rap signalling. <i>European Journal of Neuroscience</i> , 2010, 32, 1-9.	1.2	50
59	Dendritic mRNA Targeting of Jacob and N-Methyl-d-aspartate-induced Nuclear Translocation after Calpain-mediated Proteolysis. <i>Journal of Biological Chemistry</i> , 2009, 284, 25431-25440.	1.6	25
60	Calneurons provide a calcium threshold for <i>trans</i> -Golgi network to plasma membrane trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9093-9098.	3.3	70
61	Nucleocytoplasmic protein shuttling: the direct route in synapse-to-nucleus signaling. <i>Trends in Neurosciences</i> , 2009, 32, 392-401.	4.2	88
62	SPAR2, a novel SPAR-related protein with GAP activity for Rap1 and Rap2. <i>Journal of Neurochemistry</i> , 2008, 104, 187-201.	2.1	35
63	Caldendrin ⁴ Jacob: A Protein Liaison That Couples NMDA Receptor Signalling to the Nucleus. <i>PLoS Biology</i> , 2008, 6, e34.	2.6	177
64	Neuronal Ca^{2+} signaling via caldendrin and calneurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1229-1237.	1.9	48
65	ProSAP-interacting Protein 1 (ProSAPiP1), a Novel Protein of the Postsynaptic Density That Links the Spine-associated Rap-Gap (SPAR) to the Scaffolding Protein ProSAP2/Shank3. <i>Journal of Biological Chemistry</i> , 2006, 281, 13805-13816.	1.6	60
66	An Electrotransfection Protocol for Yeast Two-Hybrid Library Screening. <i>Analytical Biochemistry</i> , 2001, 293, 149-152.	1.1	13
67	Caldendrin, a Novel Neuronal Calcium-binding Protein Confined to the Somato-dendritic Compartment. <i>Journal of Biological Chemistry</i> , 1998, 273, 21324-21331.	1.6	101