Michael R Kreutz

List of Publications by Year
in descending order

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	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. Neuron, 2019, 103, 217-234.e4.	3.8	518
2	Early neuronal dysfunction by amyloid Î² oligomers depends on activation of NR2B-containing NMDA receptors. Neurobiology of Aging, 2011, 32, 2219-2228.	1.5	223
3	Caldendrinâ€"Jacob: A Protein Liaison That Couples NMDA Receptor Signalling to the Nucleus. PLoS Biology, 2008, 6, e34.	2.6	177
4	Encoding and Transducing the Synaptic or Extrasynaptic Origin of NMDA Receptor Signals to the Nucleus. Cell, 2013, 152, 1119-1133.	13.5	173
5	The roles of protein expression in synaptic plasticity and memory consolidation. Frontiers in Molecular Neuroscience, 2014, 7, 86.	1.4	125
6	Caldendrin, a Novel Neuronal Calcium-binding Protein Confined to the Somato-dendritic Compartment. Journal of Biological Chemistry, 1998, 273, 21324-21331.	1.6	101
7	A Dendritic Golgi Satellite between ERGIC and Retromer. Cell Reports, 2016, 14, 189-199.	2.9	99
8	Nucleocytoplasmic protein shuttling: the direct route in synapse-to-nucleus signaling. Trends in Neurosciences, 2009, 32, 392-401.	4.2	88
9	Calneurons provide a calcium threshold for trans -Golgi network to plasma membrane trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9093-9098.	3.3	70
10	Macromolecular transport in synapse to nucleus communication. Trends in Neurosciences, 2015, 38, 108-116.	4.2	69
11	Caldendrin Directly Couples Postsynaptic Calcium Signals to Actin Remodeling in Dendritic Spines. Neuron, 2018, 97, 1110-1125.e14.	3.8	68
12	Neuronal DNA Methyltransferases: Epigenetic Mediators between Synaptic Activity and Gene Expression?. Neuroscientist, 2018, 24, 171-185.	2.6	67
13	SIPA1L2 controls trafficking and local signaling of TrkB-containing amphisomes at presynaptic terminals. Nature Communications, 2019, 10, 5448.	5.8	64
14	Proteomics of the Synapse â€" A Quantitative Approach to Neuronal Plasticity. Molecular and Cellular Proteomics, 2016, 15, 368-381.	2.5	61
15	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. Journal of Biological Chemistry, 2006, 281, 13805-13816.	1.6	60
16	The Segregated Expression of Voltage-Gated Potassium and Sodium Channels in Neuronal Membranes: Functional Implications and Regulatory Mechanisms. Frontiers in Cellular Neuroscience, 2017, 11, 115.	1.8	51
17	RapGAPs in brain: multipurpose players in neuronal Rap signalling. European Journal of Neuroscience, 2010, 32, 1-9.	1.2	50
18	Posttranslational modification impact on the mechanism by which amyloidâ€Î² induces synaptic dysfunction. EMBO Reports, 2017, 18, 962-981.	2.0	50

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19	Neuronal Ca2+ signaling via caldendrin and calneurons. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1229-1237.	1.9	48
20	Nuclear Translocation of Jacob in Hippocampal Neurons after Stimuli Inducing Long-Term Potentiation but Not Long-Term Depression. PLoS ONE, 2011, 6, e17276.	1.1	46
21	Inhibition of the Polyamine System Counteracts Î²-Amyloid Peptide-Induced Memory Impairment in Mice: Involvement of Extrasynaptic NMDA Receptors. PLoS ONE, 2014, 9, e99184.	1.1	45
22	The Role of Activity-Dependent DNA Demethylation in the Adult Brain and in Neurological Disorders. Frontiers in Molecular Neuroscience, 2018, 11, 169.	1.4	45
23	Plasticity of intrinsic excitability in mature granule cells of the dentate gyrus. Scientific Reports, 2016, 6, 21615.	1.6	41
24	Ring finger protein 10 is a novel synaptonuclear messenger encoding activation of NMDA receptors in hippocampus. ELife, 2016, 5, e12430.	2.8	39
25	A Jacob/Nsmf Gene Knockout Results in Hippocampal Dysplasia and Impaired BDNF Signaling in Dendritogenesis. PLoS Genetics, 2016, 12, e1005907.	1.5	36
26	SPAR2, a novel SPARâ€related protein with GAP activity for Rap1 and Rap2. Journal of Neurochemistry, 2008, 104, 187-201.	2.1	35
27	From Synapse to Nucleus and Back Again--Communication over Distance within Neurons. Journal of Neuroscience, 2011, 31, 16045-16048.	1.7	34
28	Ca2+ sensor proteins in dendritic spines: a race for Ca2+. Frontiers in Molecular Neuroscience, 2012, 5, 61.	1.4	33
29	Synaptonuclear messenger <scp>PRR</scp> 7 inhibits câ€Jun ubiquitination and regulates <scp>NMDA</scp> â€mediated excitotoxicity. EMBO Journal, 2016, 35, 1923-1934.	3.5	33
30	Microtubules Modulate F-actin Dynamics during Neuronal Polarization. Scientific Reports, 2017, 7, 9583.	1.6	30
31	Autophagy and the endolysosomal system in presynaptic function. Cellular and Molecular Life Sciences, 2021, 78, 2621-2639.	2.4	29
32	Post-translational Membrane Insertion of Tail-anchored Transmembrane EF-hand Ca2+ Sensor Calneurons Requires the TRC40/Asna1 Protein Chaperone. Journal of Biological Chemistry, 2011, 286, 36762-36776.	1.6	28
33	Dopamine agonists rescue AÎ²â€“induced LTP impairment byÂSrc-family tyrosine kinases. Neurobiology of Aging, 2016, 40, 98-102.	1.5	26
34	Mature granule cells of the dentate gyrusâ€”Passive bystanders or principal performers in hippocampal function?. Neuroscience and Biobehavioral Reviews, 2016, 64, 167-174.	2.9	26
35	Dendritic mRNA Targeting of Jacob and N-Methyl-d-aspartate-induced Nuclear Translocation after Calpain-mediated Proteolysis. Journal of Biological Chemistry, 2009, 284, 25431-25440.	1.6	25
36	Synaptic GluN2B/CaMKII-Î± Signaling Induces Synapto-Nuclear Transport of ERK and Jacob. Frontiers in Molecular Neuroscience, 2016, 9, 66.	1.4	25

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37	Cellular distribution of the NMDA-receptor activated synapto-nuclear messenger Jacob in the rat brain. Brain Structure and Function, 2014, 219, 843-860.	1.2	23
38	Radial somatic Fâ€actin organization affects growth cone dynamics during early neuronal development. EMBO Reports, 2019, 20, e47743.	2.0	20
39	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 Î±-Synuclein, Tau, and Phospho-Tau in Non-transgenic and Transgenic APPSw,Ind Mice. Frontiers in Molecular Neuroscience, 2018, 11, 273.	1.4	19
40	AKAP79/150 interacts with the neuronal calciumâ€binding protein caldendrin. Journal of Neurochemistry, 2012, 122, 714-726.	2.1	17
41	Synaptic control of DNA methylation involves activity-dependent degradation of DNMT3A1 in the nucleus. Neuropsychopharmacology, 2020, 45, 2120-2130.	2.8	17
42	The role of 19S proteasome associated deubiquitinases in activity-dependent hippocampal synaptic plasticity. Neuropharmacology, 2018, 133, 354-365.	2.0	16
43	Long-Distance Signaling from Synapse to Nucleus via Protein Messengers. Advances in Experimental Medicine and Biology, 2012, 970, 355-376.	0.8	15
44	Molecular Dynamics of the Neuronal EF-Hand Ca2+-Sensor Caldendrin. PLoS ONE, 2014, 9, e103186.	1.1	14
45	Caldendrin and Calneuronsâ€”EF-Hand CaM-Like Calcium Sensors With Unique Features and Specialized Neuronal Functions. Frontiers in Molecular Neuroscience, 2019, 12, 16.	1.4	14
46	Autism-associated SHANK3 missense point mutations impact conformational fluctuations and protein turnover at synapses. ELife, 2021, 10, .	2.8	14
47	The needs of a synapseâ€”How local organelles serve synaptic proteostasis. EMBO Journal, 2022, 41, e110057.	3.5	14
48	An Electrotransfection Protocol for Yeast Two-Hybrid Library Screening. Analytical Biochemistry, 2001, 293, 149-152.	1.1	13
49	Neuronal Calcium and cAMP Cross-Talk Mediated by Cannabinoid CB1 Receptor and EF-Hand Calcium Sensor Interactions. Frontiers in Cell and Developmental Biology, 2018, 6, 67.	1.8	13
50	Binding of Y-P30 to Syndecan 2/3 Regulates the Nuclear Localization of CASK. PLoS ONE, 2014, 9, e85924.	1.1	12
51	Alternative Splicing, Expression and Cellular Localization of Calneuron-1 in the Rat and Human Brain. Journal of Histochemistry and Cytochemistry, 2015, 63, 793-804.	1.3	12
52	Multiomics of synaptic junctions reveals altered lipid metabolism and signaling following environmental enrichment. Cell Reports, 2021, 37, 109797.	2.9	11
53	Organization of Presynaptic Autophagy-Related Processes. Frontiers in Synaptic Neuroscience, 2022, 14, 829354.	1.3	10
54	What do we learn from the murine Jacob/Nsmf gene knockout for human disease?. Rare Diseases (Austin, Tex), 2016, 4, e1241361.	1.8	8

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55	A plasmid-based expression system to study proteinâ€“protein interactions at the Golgi inÂvivo. Analytical Biochemistry, 2016, 502, 50-52.	1.1	7
56	Jacob, a Synapto-Nuclear Protein Messenger Linking N-methyl-D-aspartate Receptor Activation to Nuclear Gene Expression. Frontiers in Synaptic Neuroscience, 2021, 13, 787494.	1.3	7
57	Neddylation-dependent protein degradation is a nexus between synaptic insulin resistance, neuroinflammation and Alzheimerâ€™s disease. Translational Neurodegeneration, 2022, 11, 2.	3.6	7
58	Isolation of CA1 Nuclear Enriched Fractions from Hippocampal Slices to Study Activity-dependent Nuclear Import of Synapto-nuclear Messenger Proteins. Journal of Visualized Experiments, 2014, , e51310.	0.2	6
59	Dendritic Kv4.2 potassium channels selectively mediate spatial pattern separation in the dentate gyrus. IScience, 2021, 24, 102876.	1.9	6
60	The nuclear lamina is a hub for the nuclear function of Jacob. Molecular Brain, 2021, 14, 9.	1.3	6
61	Molecular Mechanisms of Memory Consolidation That Operate During Sleep. Frontiers in Molecular Neuroscience, 2021, 14, 767384.	1.4	4
62	Normal Development and Function of T Cells in Proline Rich 7 (Prr7) Deficient Mice. PLoS ONE, 2016, 11, e0162863.	1.1	3
63	Transgenic modeling of Ndr2 gene amplification reveals disturbance of hippocampus circuitry and function. IScience, 2021, 24, 102868.	1.9	3
64	Clustered plasticity in Long-Term Potentiation: How strong synapses persist to maintain long-term memory. Neuroforum, 2018, 24, A127-A132.	0.2	1
65	Simple Targeted Assays for Metabolic Pathways and Signaling: A Powerful Tool for Targeted Proteomics. Analytical Chemistry, 2020, 92, 13672-13676.	3.2	1
66	One-step purification of tag free and soluble lamin B1 from an E. coli bacterial expression system. Protein Expression and Purification, 2022, 193, 106057.	0.6	1
67	Geclusterte PlastizitÃt bei Langzeitpotenzierung: Wie starke Synapsen bestehen bleiben, um LangzeitgedÃchtnis aufrechtzuerhalten. Neuroforum, 2018, 24, 195-201.	0.2	0