Josef T Kittler

List of Publications by Year
in descending order

94 papers	8,790 citations	34105 52 h-index	46799 89 g-index
107 all docs	107 docs citations	107 times ranked	9610 citing authors

#	Article	IF	Citations
1	Miro1 Is a Calcium Sensor for Glutamate Receptor-Dependent Localization of Mitochondria at Synapses. Neuron, 2009, 61, 541-555.	8.1	560
2	Mitochondria at the neuronal presynapse in health and disease. Nature Reviews Neuroscience, 2018, 19, 63-80.	10.2	486
3	Control of mitochondrial transport and localization in neurons. Trends in Cell Biology, 2010, 20, 102-112.	7.9	305
4	Constitutive Endocytosis of GABA_AReceptors by an Association with the Adaptin AP2 Complex Modulates Inhibitory Synaptic Currents in Hippocampal Neurons. Journal of Neuroscience, 2000, 20, 7972-7977.	3.6	281
5	Modulation of GABAA receptor activity by phosphorylation and receptor trafficking: implications for the efficacy of synaptic inhibition. Current Opinion in Neurobiology, 2003, 13, 341-347.	4.2	262
6	Brain-Derived Neurotrophic Factor Modulates Fast Synaptic Inhibition by Regulating GABAA Receptor Phosphorylation, Activity, and Cell-Surface Stability. Journal of Neuroscience, 2004, 24, 522-530.	3.6	249
7	Gephyrin Regulates the Cell Surface Dynamics of Synaptic GABAA Receptors. Journal of Neuroscience, 2005, 25, 10469-10478.	3.6	233
8	Delivery of GABAARs to Synapses Is Mediated by HAP1-KIF5 and Disrupted by Mutant Huntingtin. Neuron, 2010, 65, 53-65.	8.1	225
9	Miro proteins coordinate microtubuleâ€•and actinâ€dependent mitochondrial transport and distribution. EMBO Journal, 2018, 37, 321-336.	7.8	222
10	The Subcellular Distribution of GABARAP and Its Ability to Interact with NSF Suggest a Role for This Protein in the Intracellular Transport of GABAA Receptors. Molecular and Cellular Neurosciences, 2001, 18, 13-25.	2.2	217
11	GABAA receptor cell surface number and subunit stability are regulated by the ubiquitin-like protein Plic-1. Nature Neuroscience, 2001, 4, 908-916.	14.8	217
12	Huntingtin-associated protein 1 regulates inhibitory synaptic transmission by modulating Â-aminobutyric acid type A receptor membrane trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12736-12741.	7.1	204
13	Cell Surface Stability of Î³-Aminobutyric Acid Type A Receptors. Journal of Biological Chemistry, 1999, 274, 36565-36572.	3.4	167
14	The autism and schizophrenia associated gene CYFIP1 is critical for the maintenance of dendritic complexity and the stabilization of mature spines. Translational Psychiatry, 2014, 4, e374-e374.	4.8	167
15	GABAA Receptor Phosphorylation and Functional Modulation in Cortical Neurons by a Protein Kinase C-dependent Pathway. Journal of Biological Chemistry, 2000, 275, 38856-38862.	3.4	162
16	Phospho-dependent binding of the clathrin AP2 adaptor complex to GABAA receptors regulates the efficacy of inhibitory synaptic transmission. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14871-14876.	7.1	159
17	GTPase dependent recruitment of Grif-1 by Miro1 regulates mitochondrial trafficking in hippocampal neurons. Molecular and Cellular Neurosciences, 2009, 40, 301-312.	2.2	152
18	Lysine 27 Ubiquitination of the Mitochondrial Transport Protein Miro Is Dependent on Serine 65 of the Parkin Ubiquitin Ligase. Journal of Biological Chemistry, 2014, 289, 14569-14582.	3.4	152

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19	Nanoscale tweezers for single-cell biopsies. Nature Nanotechnology, 2019, 14, 80-88.	31.5	147
20	Loss of Dendritic Complexity Precedes Neurodegeneration in a Mouse Model with Disrupted Mitochondrial Distribution in Mature Dendrites. Cell Reports, 2016, 17, 317-327.	6.4	144
21	The LIM Protein Ajuba Is Recruited to Cadherin-dependent Cell Junctions through an Association with Î±-Catenin. Journal of Biological Chemistry, 2003, 278, 1220-1228.	3.4	137
22	Mitochondrial trafficking and the provision of energy and calcium buffering at excitatory synapses. European Journal of Neuroscience, 2010, 32, 231-240.	2.6	132
23	NMDA receptors regulate GABA _A receptor lateral mobility and clustering at inhibitory synapses through serine 327 on the Î²2 subunit. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16679-16684.	7.1	132
24	Deficits in Phosphorylation of GABA_AReceptors by Intimately Associated Protein Kinase C Activity Underlie Compromised Synaptic Inhibition during Status Epilepticus. Journal of Neuroscience, 2008, 28, 376-384.	3.6	129
25	Miro clusters regulate ER-mitochondria contact sites and link cristae organization to the mitochondrial transport machinery. Nature Communications, 2019, 10, 4399.	12.8	119
26	Association of GABAB Receptors and Members of the 14-3-3 Family of Signaling Proteins. Molecular and Cellular Neurosciences, 2001, 17, 317-328.	2.2	115
27	Subunit-Specific Association of Protein Kinase C and the Receptor for Activated C Kinase with GABA Type A Receptors. Journal of Neuroscience, 1999, 19, 9228-9234.	3.6	114
28	Miro1 Regulates Activity-Driven Positioning of Mitochondria within Astrocytic Processes Apposed to Synapses to Regulate Intracellular Calcium Signaling. Journal of Neuroscience, 2015, 35, 15996-16011.	3.6	110
29	Autism and Schizophrenia-Associated CYFIP1 Regulates the Balance of Synaptic Excitation and Inhibition. Cell Reports, 2019, 26, 2037-2051.e6.	6.4	107
30	Regulation of synaptic inhibition by phospho-dependent binding of the AP2 complex to a YECL motif in the GABA _A receptor Î²2 subunit. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3616-3621.	7.1	105
31	Effects of long-term exposure to Î”9-THC on expression of cannabinoid receptor (CB1) mRNA in different rat brain regions. Molecular Brain Research, 1998, 62, 141-149.	2.3	104
32	Shank3 Deficiency Induces NMDA Receptor Hypofunction via an Actin-Dependent Mechanism. Journal of Neuroscience, 2013, 33, 15767-15778.	3.6	103
33	A-kinase anchoring protein 79/150 facilitates the phosphorylation of GABAA receptors by cAMP-dependent protein kinase via selective interaction with receptor Î² subunits. Molecular and Cellular Neurosciences, 2003, 22, 87-97.	2.2	100
34	Miro1â€dependent mitochondrial positioning drives the rescaling of presynaptic Ca ²⁺ signals during homeostatic plasticity. EMBO Reports, 2017, 18, 231-240.	4.5	99
35	GABAA Receptor Phospho-Dependent Modulation Is Regulated by Phospholipase C-Related Inactive Protein Type 1, a Novel Protein Phosphatase 1 Anchoring Protein. Journal of Neuroscience, 2004, 24, 7074-7084.	3.6	98
36	Palmitoylation regulates the clustering and cell surface stability of GABAA receptors. Molecular and Cellular Neurosciences, 2004, 26, 251-257.	2.2	97

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37	Dopamine D3 Receptors Regulate GABAA Receptor Function through a Phospho-Dependent Endocytosis Mechanism in Nucleus Accumbens. Journal of Neuroscience, 2006, 26, 2513-2521.	3.6	94
38	DISC1-dependent Regulation of Mitochondrial Dynamics Controls the Morphogenesis of Complex Neuronal Dendrites. Journal of Biological Chemistry, 2016, 291, 613-629.	3.4	92
39	Mitochondrial trafficking in neurons and the role of the Miro family of GTPase proteins. Biochemical Society Transactions, 2013, 41, 1525-1531.	3.4	91
40	An Essential Role for the Tetraspanin LHFPL4 in the Cell-Type-Specific Targeting and Clustering of Synaptic GABA A Receptors. Cell Reports, 2017, 21, 70-83.	6.4	85
41	Modulation of GABAA Receptor Phosphorylation and Membrane Trafficking by Phospholipase C-related Inactive Protein/Protein Phosphatase 1 and 2A Signaling Complex Underlying Brain-derived Neurotrophic Factor-dependent Regulation of GABAergic Inhibition. Journal of Biological Chemistry, 2006, 281, 22180-22189.	3.4	80
42	Mechanisms of GABA_A Receptor Assembly and Trafficking: Implications for the Modulation of Inhibitory Neurotransmission. Molecular Neurobiology, 2002, 26, 251-268.	4.0	78
43	Molecular determinants for the interaction between AMPA receptors and the clathrin adaptor complex AP-2. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2991-2996.	7.1	77
44	Ubiquitin-dependent lysosomal targeting of GABA _A receptors regulates neuronal inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17552-17557.	7.1	77
45	Analysis of GABAA Receptor Assembly in Mammalian Cell Lines and Hippocampal Neurons Using Î³2 Subunit Green Fluorescent Protein Chimeras. Molecular and Cellular Neurosciences, 2000, 16, 440-452.	2.2	71
46	Identification of Residues within GABAAReceptor Î± Subunits That Mediate Specific Assembly with Receptor Î² Subunits. Journal of Neuroscience, 2000, 20, 1297-1306.	3.6	67
47	Disrupted in Schizophrenia-1 regulates intracellular trafficking of mitochondria in neurons. Molecular Psychiatry, 2011, 16, 122-124.	7.9	66
48	Neuronal activity mediated regulation of glutamate transporter GLTâ€1 surface diffusion in rat astrocytes in dissociated and slice cultures. Glia, 2016, 64, 1252-1264.	4.9	66
49	Subunit specificity and interaction domain between GABAA receptor-associated protein (GABARAP) and GABAA receptors. Journal of Neurochemistry, 2002, 80, 815-823.	3.9	65
50	The receptor subunits generating NMDA receptor mediated currents in oligodendrocytes. Journal of Physiology, 2010, 588, 3403-3414.	2.9	60
51	Large-scale analysis of gene expression changes during acute and chronic exposure to Î”⁹-THC in rats. Physiological Genomics, 2000, 3, 175-185.	2.3	59
52	Plasticity of GABAA receptor diffusion dynamics at the axon initial segment. Frontiers in Cellular Neuroscience, 2014, 8, 151.	3.7	59
53	Axonal autophagosome maturation defect through failure of ATG9A sorting underpins pathology in AP-4 deficiency syndrome. Autophagy, 2020, 16, 391-407.	9.1	59
54	GIT1 and Î²PIX Are Essential for GABA A Receptor Synaptic Stability and Inhibitory Neurotransmission. Cell Reports, 2014, 9, 298-310.	6.4	56

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55	Miro sculpts mitochondrial dynamics in neuronal health and disease. Neurobiology of Disease, 2016, 90, 27-34.	4.4	56
56	Stabilization of GABA_AReceptors at Endocytic Zones Is Mediated by an AP2 Binding Motif within the GABA_AReceptor Î²3 Subunit. Journal of Neuroscience, 2012, 32, 2485-2498.	3.6	55
57	Disrupted in Schizophrenia 1 forms pathological aggresomes that disrupt its function in intracellular transport. Human Molecular Genetics, 2012, 21, 2017-2028.	2.9	54
58	Regulation of GABAA receptor membrane trafficking and synaptic localization. , 2009, 123, 17-31.		53
59	Phospholipase Câ€related inactive protein is implicated in the constitutive internalization of GABA A receptors mediated by clathrin and AP2 adaptor complex. Journal of Neurochemistry, 2007, 101, 898-905.	3.9	49
60	The cell biology of synaptic inhibition in health and disease. Current Opinion in Neurobiology, 2010, 20, 550-556.	4.2	49
61	Impaired Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) Receptor Trafficking and Function by Mutant Huntingtin. Journal of Biological Chemistry, 2011, 286, 33719-33728.	3.4	49
62	Association of GRIP1 with a GABAA receptor associated protein suggests a role for GRIP1 at inhibitory synapses. Biochemical Pharmacology, 2004, 68, 1649-1654.	4.4	43
63	Peroxisomal fission is modulated by the mitochondrial Rhoâ€GTPases, Miro1 and Miro2. EMBO Reports, 2020, 21, e49865.	4.5	42
64	The adaptor proteins HAP1a and GRIP1 collaborate to activate kinesin-1 isoform KIF5C. Journal of Cell Science, 2019, 132, .	2.0	41
65	Activation of calcineurin underlies altered trafficking of Î±2 subunit containing GABAA receptors during prolonged epileptiform activity. Neuropharmacology, 2015, 88, 82-90.	4.1	37
66	Myostatin-like proteins regulate synaptic function and neuronal morphology. Development (Cambridge), 2017, 144, 2445-2455.	2.5	37
67	Loss of neuronal Miro1 disrupts mitophagy and induces hyperactivation of the integrated stress response. EMBO Journal, 2021, 40, e100715.	7.8	36
68	Mitochondrial dynamics in astrocytes. Biochemical Society Transactions, 2014, 42, 1302-1310.	3.4	35
69	Neurotransmitter Receptor Trafficking and the Regulation of Synaptic Strength. Traffic, 2001, 2, 437-448.	2.7	33
70	Regulation of inhibitory synaptic transmission by a conserved atypical interaction of GABAA receptor Î²- and Î³-subunits with the clathrin AP2 adaptor. Neuropharmacology, 2008, 55, 844-850.	4.1	26
71	Mitochondrial roles of the psychiatric disease risk factor DISC1. Schizophrenia Research, 2017, 187, 47-54.	2.0	26
72	Ubiquitination at the mitochondria in neuronal health and disease. Neurochemistry International, 2018, 117, 55-64.	3.8	24

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73	Cdk5 and GSK3Î² inhibit fast endophilin-mediated endocytosis. Nature Communications, 2021, 12, 2424.	12.8	24
74	DISC1 is a coordinator of intracellular trafficking to shape neuronal development and connectivity. Journal of Physiology, 2016, 594, 5459-5469.	2.9	21
75	Identification and characterisation of a Maf1/Macoco protein complex that interacts with GABAA receptors in neurons. Molecular and Cellular Neurosciences, 2010, 44, 330-341.	2.2	19
76	Quantum dot conjugated nanobodies for multiplex imaging of protein dynamics at synapses. Nanoscale, 2018, 10, 10241-10249.	5.6	17
77	SNX27-Mediated Recycling of Neuroligin-2 Regulates Inhibitory Signaling. Cell Reports, 2019, 29, 2599-2607.e6.	6.4	17
78	DISC1 Regulates Mitochondrial Trafficking in a Miro1-GTP-Dependent Manner. Frontiers in Cell and Developmental Biology, 2020, 8, 449.	3.7	16
79	KCC2 is required for the survival of mature neurons but not for their development. Journal of Biological Chemistry, 2021, 296, 100364.	3.4	15
80	Regulation of peroxisomal trafficking and distribution. Cellular and Molecular Life Sciences, 2021, 78, 1929-1941.	5.4	14
81	Miro1-dependent mitochondrial dynamics in parvalbumin interneurons. ELife, 2021, 10, .	6.0	13
82	Continuous hydrothermal synthesis of surface-functionalised nanophosphors for biological imaging. RSC Advances, 2012, 2, 10037.	3.6	12
83	DISC1 and the aggresome. Autophagy, 2012, 8, 851-852.	9.1	11
84	Regulation of mitochondrial trafficking, function and quality control by the mitochondrial GTPases Miro1 and Miro2. SpringerPlus, 2015, 4, L33.	1.2	4
85	Phosphorylation of neuroligin-2 by PKA regulates its cell surface abundance and synaptic stabilization. Science Signaling, 2022, 15, .	3.6	4
86	The non-adrenergic imidazoline-1 receptor protein nischarin is a key regulator of astrocyte glutamate uptake. IScience, 2022, 25, 104127.	4.1	3
87	Censoring the Editor in Transient Forebrain Ischemia. Neuron, 2006, 49, 646-648.	8.1	2
88	Shedding light on mitochondrial movements in axons (Commentary on Obashi & Okabe). European Journal of Neuroscience, 2013, 38, 2349-2349.	2.6	2
89	GABAergic Signaling in Health and Disease. Neuropharmacology, 2015, 88, 1.	4.1	2
90	Studying the Localization, Surface Stability and Endocytosis of Neurotransmitter Receptors by Antibody Labeling and Biotinylation Approaches. Frontiers in Neuroscience, 2006, , 91-118.	0.0	1

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91	Neuronal Mitochondrial Transport and Dysfunction. , 2012, , 157-173.		1
92	Preface. Seminars in Cell and Developmental Biology, 2014, 27, 1-2.	5.0	0
93	Transfecting and Transducing Neurons with Synthetic Nucleic Acids and Biologically Active Macromolecules. Frontiers in Neuroscience, 2006, , 205-239.	0.0	0
94	Molecular Organization of the Postsynaptic Membrane at Inhibitory Synapses. , 2008, , 621-660.		0