Johannes W Hell

List of Publications by Year
in descending order

104 papers	10,201 citations	43973 48 h-index	34900 98 g-index
115 all docs	115 docs citations	115 times ranked	8851 citing authors

#	Article	IF	Citations
1	Aging differentially affects LTCC function in hippocampal CA1 and piriform cortex pyramidal neurons. Cerebral Cortex, 2023, 33, 1489-1503.	1.6	4
2	CavÎ²1 regulates T cell expansion and apoptosis independently of voltage-gated Ca2+ channel function. Nature Communications, 2022, 13, 2033.	5.8	18
3	Norepinephrine potentiates and serotonin depresses visual cortical responses by transforming eligibility traces. Nature Communications, 2022, 13, .	5.8	14
4	Intracellular Î² ₁ -Adrenergic Receptors and Organic Cation Transporter 3 Mediate Phospholamban Phosphorylation to Enhance Cardiac Contractility. Circulation Research, 2021, 128, 246-261.	2.0	38
5	CaMKII binding to GluN2B at S1303 has no role in acute or inflammatory pain. Brain Research, 2021, 1750, 147154.	1.1	1
6	Secondhand Smoke Exposure Impairs Ion Channel Function and Contractility of Mesenteric Arteries. Function, 2021, 2, zqab041.	1.1	7
7	Chemical shift assignments of the N-terminal domain of PSD95 (PSD95-NT). Biomolecular NMR Assignments, 2021, 15, 347-350.	0.4	2
8	The Therapeutic Landscape of Rheumatoid Arthritis: Current State and Future Directions. Frontiers in Pharmacology, 2021, 12, 680043.	1.6	62
9	Zincâ€chelating postsynaptic densityâ€95 Nâ€terminus impairs its palmitoyl modification. Protein Science, 2021, 30, 2246-2257.	3.1	2
10	Age-Dependent Contributions of NMDA Receptors and L-Type Calcium Channels to Long-Term Depression in the Piriform Cortex. International Journal of Molecular Sciences, 2021, 22, 13551.	1.8	8
11	Î²₂Adrenergic Receptor Complexes with the L-Type Ca²⁺Channel Ca_V1.2 and AMPA-Type Glutamate Receptors: Paradigms for Pharmacological Targeting of Protein Interactions. Annual Review of Pharmacology and Toxicology, 2020, 60, 155-174.	4.2	13
12	Contribution of D1R-expressing neurons of the dorsal dentate gyrus and Cav1.2 channels in extinction of cocaine conditioned place preference. Neuropsychopharmacology, 2020, 45, 1506-1517.	2.8	9
13	AKAP5 complex facilitates purinergic modulation of vascular L-type Ca2+ channel CaV1.2. Nature Communications, 2020, 11, 5303.	5.8	22
14	Î±â€Actininâ€1 promotes activity of the Lâ€type Ca ²⁺ channel Ca _v 1.2. EMBO Journal, 2020, 39, e102622.	3.5	20
15	How CBP/Shank3 Guards Rap and H-Ras. Structure, 2020, 28, 274-276.	1.6	1
16	Tissue-specific adrenergic regulation of the L-type Ca ²⁺ channel Ca _V 1.2. Science Signaling, 2020, 13, .	1.6	15
17	Ca2+/Calmodulin Binding to PSD-95 Downregulates Its Palmitoylation and AMPARs in Long-Term Depression. Frontiers in Synaptic Neuroscience, 2019, 11, 6.	1.3	12
18	Cardiomyocyte substructure reverts to an immature phenotype during heart failure. Journal of Physiology, 2019, 597, 1833-1853.	1.3	43

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19	Chemical shift assignments of a calmodulin intermediate with two Ca2+ bound in complex with the IQ-motif of voltage-gated Ca2+ channels (CaV1.2). Biomolecular NMR Assignments, 2019, 13, 233-237.	0.4	4
20	Role of Palmitoylation of Postsynaptic Proteins in Promoting Synaptic Plasticity. Frontiers in Molecular Neuroscience, 2019, 12, 8.	1.4	67
21	Mechanisms of postsynaptic localization of AMPA-type glutamate receptors and their regulation during long-term potentiation. Science Signaling, 2019, 12, .	1.6	63
22	Adenylyl cyclase 5â€"generated cAMP controls cerebral vascular reactivity during diabetic hyperglycemia. Journal of Clinical Investigation, 2019, 129, 3140-3152.	3.9	35
23	A Gs-coupled purinergic receptor boosts Ca2+ influx and vascular contractility during diabetic hyperglycemia. ELife, 2019, 8, .	2.8	33
24	Î²-blockers augment L-type Ca2+ channel activity by targeting spatially restricted Î²2AR signaling in neurons. ELife, 2019, 8, .	2.8	12
25	SynDIG4/Prrt1 Is Required for Excitatory Synapse Development and Plasticity Underlying Cognitive Function. Cell Reports, 2018, 22, 2246-2253.	2.9	41
26	Cascades of Homeostatic Dysregulation Promote Incubation of Cocaine Craving. Journal of Neuroscience, 2018, 38, 4316-4328.	1.7	39
27	Î±-Actinin Anchors PSD-95 at Postsynaptic Sites. Neuron, 2018, 97, 1094-1109.e9.	3.8	53
28	Molecular mimicking of C-terminal phosphorylation tunes the surface dynamics of CaV1.2 calcium channels in hippocampal neurons. Journal of Biological Chemistry, 2018, 293, 1040-1053.	1.6	18
29	Ras and Rap Signal Bidirectional Synaptic Plasticity via Distinct Subcellular Microdomains. Neuron, 2018, 98, 783-800.e4.	3.8	68
30	Functionally distinct and selectively phosphorylated GPCR subpopulations co-exist in a single cell. Nature Communications, 2018, 9, 1050.	5.8	28
31	Ca ²⁺ /calmodulin binding to <scp>PSD</scp> â€95 mediates homeostatic synaptic scaling down. EMBO Journal, 2018, 37, 122-138.	3.5	36
32	Postsynaptic localization and regulation of AMPA receptors and Cav1.2 by Î²2 adrenergic receptor/PKA and Ca ²⁺ /CaMKII signaling. EMBO Journal, 2018, 37, .	3.5	57
33	Dynamic L-type CaV1.2 channel trafficking facilitates CaV1.2 clustering and cooperative gating. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1341-1355.	1.9	29
34	Homeostatic synaptic scaling: molecular regulators of synaptic AMPA-type glutamate receptors. F1000Research, 2018, 7, 234.	0.8	44
35	Anchored G_sâ€coupled purinergic receptor regulation of Lâ€type Ca_V1.2 and vascular tone in diabetic hyperglycemia. FASEB Journal, 2018, 32, 569.10.	0.2	0
36	Ser ¹⁹²⁸ phosphorylation by PKA stimulates the L-type Ca ²⁺ channel Ca _V 1.2 and vasoconstriction during acute hyperglycemia and diabetes. Science Signaling, 2017, 10, .	1.6	85

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37	Phosphorylation of Ser ¹⁹²⁸ mediates the enhanced activity of the L-type Ca ²⁺ channel Ca _v 1.2 by the Î² ₂ -adrenergic receptor in neurons. Science Signaling, 2017, 10, .	1.6	91
38	DAPK1 Mediates LTD by Making CaMKII/GluN2B Binding LTP Specific. Cell Reports, 2017, 19, 2231-2243.	2.9	73
39	Î±-Actinin Promotes Surface Localization and Current Density of the Ca²⁺ Channel Ca_V1.2 by Binding to the IQ Region of the Î±1 Subunit. Biochemistry, 2017, 56, 3669-3681.	1.2	21
40	Nimodipine fosters remyelination in a mouse model of multiple sclerosis and induces microglia-specific apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3295-E3304.	3.3	52
41	Impaired BKCa channel function in native vascular smooth muscle from humans with type 2 diabetes. Scientific Reports, 2017, 7, 14058.	1.6	31
42	The genetics of PKMÎ¶ and memory maintenance. Science Signaling, 2017, 10, .	1.6	48
43	Proteolytic processing of the L-type Ca2+Âchannel alpha11.2 subunit in neurons. F1000Research, 2017, 6, 1166.	0.8	20
44	Proteolytic processing of the L-type Ca2+Âchannel alpha11.2 subunit in neurons. F1000Research, 2017, 6, 1166.	0.8	16
45	Angiotensin II signalling kicks out p27^{Kip1}: casein kinase 2 augmentation of Ca_v1.2 Lâ€type Ca²⁺ channel activity in immature ventricular cardiomyocytes. Journal of Physiology, 2017, 595, 4131-4132.	1.3	1
46	Phosphorylation of Ca _v 1.2 on S1928 uncouples the Lâ€type Ca ²⁺ channel from the Î² ₂ adrenergic receptor. EMBO Journal, 2016, 35, 1330-1345.	3.5	61
47	How Ca ²⁺ -permeable AMPA receptors, the kinase PKA, and the phosphatase PP2B are intertwined in synaptic LTP and LTD. Science Signaling, 2016, 9, e2.	1.6	43
48	Chemical shift assignments of the C-terminal EF-hand domain of Î±-actinin-1. Biomolecular NMR Assignments, 2016, 10, 219-222.	0.4	2
49	The CaMKII/GluN2B Protein Interaction Maintains Synaptic Strength. Journal of Biological Chemistry, 2016, 291, 16082-16089.	1.6	63
50	Imbalance of excitatory/inhibitory synaptic protein expression in iPSC-derived neurons from FOXG1+/âˆ’ patients and in foxg1+/âˆ’ mice. European Journal of Human Genetics, 2016, 24, 871-880.	1.4	54
51	Non-ionotropic signaling by the NMDA receptor: controversy and opportunity. F1000Research, 2016, 5, 1010.	0.8	23
52	Loss of SynDIG1 Reduces Excitatory Synapse Maturation But Not Formation<i>In Vivo</i>. ENeuro, 2016, 3, ENEURO.0130-16.2016.	0.9	30
53	Loss of F-box Only Protein 2 (Fbxo2) Disrupts Levels and Localization of Select NMDA Receptor Subunits, and Promotes Aberrant Synaptic Connectivity. Journal of Neuroscience, 2015, 35, 6165-6178.	1.7	36
54	Distinct Eligibility Traces for LTP and LTD in Cortical Synapses. Neuron, 2015, 88, 528-538.	3.8	149

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55	Phosphorylation of Ser1166 on GluN2B by PKA Is Critical to Synaptic NMDA Receptor Function and Ca²⁺Signaling in Spines. Journal of Neuroscience, 2014, 34, 869-879.	1.7	98
56	CaMKII: Claiming Center Stage in Postsynaptic Function and Organization. Neuron, 2014, 81, 249-265.	3.8	279
57	Mission CaMKIIÎ³: Shuttle Calmodulin from Membrane to Nucleus. Cell, 2014, 159, 235-237.	13.5	10
58	Capping of the N-terminus of PSD-95 by calmodulin triggers its postsynaptic release. EMBO Journal, 2014, 33, 1341-53.	3.5	64
59	AKAP5 Keeps L-type Channels and NFAT on Their Toes. Cell Reports, 2014, 7, 1341-1342.	2.9	4
60	CaMKII binding to GluN2B is important for massed spatial learning in the Morris water maze. F1000Research, 2014, 3, 193.	0.8	18
61	Competition between Î±-actinin and Ca2+-Calmodulin Controls Surface Retention of the L-type Ca2+ Channel CaV1.2. Neuron, 2013, 78, 483-497.	3.8	97
62	Adenylyl Cyclase Anchoring by a Kinase Anchor Protein AKAP5 (AKAP79/150) Is Important for Postsynaptic Î²-Adrenergic Signaling. Journal of Biological Chemistry, 2013, 288, 17918-17931.	1.6	61
63	Striatal-enriched Protein-tyrosine Phosphatase (STEP) Regulates Pyk2 Kinase Activity. Journal of Biological Chemistry, 2012, 287, 20942-20956.	1.6	77
64	CaMKII binding to GluN2B is critical during memory consolidation. EMBO Journal, 2012, 31, 1203-1216.	3.5	207
65	Î²₂-Adrenergic receptor supports prolonged theta tetanus-induced LTP. Journal of Neurophysiology, 2012, 107, 2703-2712.	0.9	69
66	Thermodynamic linkage between calmodulin domains binding calcium and contiguous sites in the C-terminal tail of CaV1.2. Biophysical Chemistry, 2011, 159, 172-187.	1.5	32
67	A Kinase Anchor Protein 150 (AKAP150)-associated Protein Kinase A Limits Dendritic Spine Density. Journal of Biological Chemistry, 2011, 286, 26496-26506.	1.6	24
68	Assembly of a Î²2-adrenergic receptorâ€"GluR1 signalling complex for localized cAMP signalling. EMBO Journal, 2010, 29, 482-495.	3.5	96
69	Postsynaptic Clustering and Activation of Pyk2 by PSD-95. Journal of Neuroscience, 2010, 30, 449-463.	1.7	75
70	Î²-Adrenergic Regulation of the L-Type Ca ²⁺ Channel Ca _V 1.2 by PKA Rekindles Excitement. Science Signaling, 2010, 3, pe33.	1.6	25
71	Targeting of Protein Phosphatases PP2A and PP2B to the C-Terminus of the L-Type Calcium Channel Ca_v1.2. Biochemistry, 2010, 49, 10298-10307.	1.2	47
72	Mutations in AKAP5 Disrupt Dendritic Signaling Complexes and Lead to Electrophysiological and Behavioral Phenotypes in Mice. PLoS ONE, 2010, 5, e10325.	1.1	75

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73	The Cytoskeletal Protein Î±-Actinin Regulates Acid-sensing Ion Channel 1a through a C-terminal Interaction. Journal of Biological Chemistry, 2009, 284, 2697-2705.	1.6	41
74	Supramolecular Assemblies and Localized Regulation of Voltage-Gated Ion Channels. Physiological Reviews, 2009, 89, 411-452.	13.1	309
75	Hooked on the D3 Receptor: CaMKII's New Addiction. Neuron, 2009, 61, 335-336.	3.8	3
76	NS21: Re-defined and modified supplement B27 for neuronal cultures. Journal of Neuroscience Methods, 2008, 171, 239-247.	1.3	258
77	AKAP150â€anchored PKA activity is important for LTD during its induction phase. Journal of Physiology, 2008, 586, 4155-4164.	1.3	69
78	Postsynaptic Targeting of Protein Kinases and Phosphatases. , 2008, , 459-500.		2
79	Long-Term Potentiation. , 2008, , 501-534.		7
80	Interactions between the NR2B Receptor and CaMKII Modulate Synaptic Plasticity and Spatial Learning. Journal of Neuroscience, 2007, 27, 13843-13853.	1.7	169
81	Critical Role of cAMP-Dependent Protein Kinase Anchoring to the L-Type Calcium Channel Cav1.2 via A-Kinase Anchor Protein 150 in Neuronsâ€. Biochemistry, 2007, 46, 1635-1646.	1.2	126
82	Age-dependent requirement of AKAP150-anchored PKA and GluR2-lacking AMPA receptors in LTP. EMBO Journal, 2007, 26, 4879-4890.	3.5	157
83	Binding of Protein Phosphatase 2A to the L-Type Calcium Channel Cav1.2 next to Ser1928, Its Main PKA Site, Is Critical for Ser1928 Dephosphorylation. Biochemistry, 2006, 45, 3448-3459.	1.2	106
84	Localization of cardiac L-type Ca2+ channels to a caveolar macromolecular signaling complex is required for beta2-adrenergic regulation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7500-7505.	3.3	369
85	Activity-driven postsynaptic translocation of CaMKII. Trends in Pharmacological Sciences, 2005, 26, 645-653.	4.0	132
86	Increased phosphorylation of the neuronal L-type Ca2+ channel Cav1.2 during aging. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16018-16023.	3.3	117
87	Selectivity and Promiscuity of the First and Second PDZ Domains of PSD-95 and Synapse-associated Protein 102. Journal of Biological Chemistry, 2002, 277, 21697-21711.	1.6	117
88	Regulation of GluR1 by the A-Kinase Anchoring Protein 79 (AKAP79) Signaling Complex Shares Properties with Long-Term Depression. Journal of Neuroscience, 2002, 22, 3044-3051.	1.7	214
89	A beta 2 Adrenergic Receptor Signaling Complex Assembled with the Ca2+ Channel Cav1.2. Science, 2001, 293, 98-101.	6.0	489
90	Interaction with the NMDA receptor locks CaMKII in an active conformation. Nature, 2001, 411, 801-805.	13.7	636

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91	SAP97 concentrates at the postsynaptic density in cerebral cortex. European Journal of Neuroscience, 2000, 12, 3605-3614.	1.2	92
92	Protein Phosphatase 2A Is Associated with Class C L-type Calcium Channels (Cav1.2) and Antagonizes Channel Phosphorylation by cAMP-dependent Protein Kinase. Journal of Biological Chemistry, 2000, 275, 39710-39717.	1.6	164
93	Regulation of Cardiac L-Type Calcium Channels by Protein Kinase A and Protein Kinase C. Circulation Research, 2000, 87, 1095-1102.	2.0	539
94	The A-kinase Anchor Protein MAP2B and cAMP-dependent Protein Kinase Are Associated with Class C L-type Calcium Channels in Neurons. Journal of Biological Chemistry, 1999, 274, 30280-30287.	1.6	133
95	Calcium/calmodulin-dependent protein kinase II is associated with the N-methyl-D-aspartate receptor. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3239-3244.	3.3	349
96	SAP97 Is Associated with the Î±-Amino-3-hydroxy-5-methylisoxazole-4-propionic Acid Receptor GluR1 Subunit. Journal of Biological Chemistry, 1998, 273, 19518-19524.	1.6	385
97	Specific Phosphorylation of a Site in the Full-Length Form of the Î±1 Subunit of the Cardiac L-Type Calcium Channel by Adenosine 3â€˜,5â€˜-Cyclic Monophosphate- Dependent Protein Kinaseâ€. Biochemistry, 1996, 35, 10392-10402.	1.2	271
98	N-methyl-D-aspartate receptor-induced proteolytic conversion of postsynaptic class C L-type calcium channels in hippocampal neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 3362-3367.	3.3	188
99	Phosphorylation of presynaptic and postsynaptic calcium channels by cAMP-dependent protein kinase in hippocampal neurons. EMBO Journal, 1995, 14, 3036-44.	3.5	50
100	Differential phosphorylation, localization, and function of distinct alpha 1 subunits of neuronal calcium channels. Two size forms for class B, C, and D alpha 1 subunits with different COOH-termini. Annals of the New York Academy of Sciences, 1994, 747, 282-93.	1.8	10
101	Differential phosphorylation of two size forms of the N-type calcium channel alpha 1 subunit which have different COOH termini. Journal of Biological Chemistry, 1994, 269, 7390-6.	1.6	61
102	Identification and differential subcellular localization of the neuronal class C and class D L-type calcium channel alpha 1 subunits.. Journal of Cell Biology, 1993, 123, 949-962.	2.3	706
103	Differential phosphorylation of two size forms of the neuronal class C L-type calcium channel alpha 1 subunit. Journal of Biological Chemistry, 1993, 268, 19451-7.	1.6	146
104	Biochemical properties and subcellular distribution of an N-type calcium hannel Î±1 subunit. Neuron, 1992, 9, 1099-1115.	3.8	592