

Bernd Fakler

List of Publications by Year in descending order

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54
papers

5,572
citations

94433

37
h-index

168389

53
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58
all docs

58
docs citations

58
times ranked

6009
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution Proteomics Unravel Architecture and Molecular Diversity of Native AMPA Receptor Complexes. <i>Neuron</i> , 2012, 74, 621-633.	8.1	389
2	Functional Proteomics Identify Cornichon Proteins as Auxiliary Subunits of AMPA Receptors. <i>Science</i> , 2009, 323, 1313-1319.	12.6	340
3	BKCa-Cav Channel Complexes Mediate Rapid and Localized Ca ²⁺ -Activated K ⁺ Signaling. <i>Science</i> , 2006, 314, 615-620.	12.6	327
4	Control of KCa Channels by Calcium Nano/Microdomains. <i>Neuron</i> , 2008, 59, 873-881.	8.1	312
5	Native GABAB receptors are heteromultimers with a family of auxiliary subunits. <i>Nature</i> , 2010, 465, 231-235.	27.8	286
6	The Epilepsy-Linked Lgi1 Protein Assembles into Presynaptic Kv1 Channels and Inhibits Inactivation by Kv1 ^{2.1} . <i>Neuron</i> , 2006, 49, 697-706.	8.1	276
7	Quantitative proteomics of the Cav2 channel nano-environments in the mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14950-14957.	7.1	274
8	Gating of Ca ²⁺ -Activated K ⁺ Channels Controls Fast Inhibitory Synaptic Transmission at Auditory Outer Hair Cells. <i>Neuron</i> , 2000, 26, 595-601.	8.1	232
9	Ca ²⁺ -Activated K ⁺ Channels: From Protein Complexes to Function. <i>Physiological Reviews</i> , 2010, 90, 1437-1459.	28.8	225
10	Regional Diversity and Developmental Dynamics of the AMPA-Receptor Proteome in the Mammalian Brain. <i>Neuron</i> , 2014, 84, 41-54.	8.1	224
11	Domains Responsible for Constitutive and Ca ²⁺ -Dependent Interactions between Calmodulin and Small Conductance Ca ²⁺ -Activated Potassium Channels. <i>Journal of Neuroscience</i> , 1999, 19, 8830-8838.	3.6	210
12	Control of Electrical Activity in Central Neurons by Modulating the Gating of Small Conductance Ca ²⁺ -activated K ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 9762-9769.	3.4	207
13	Protein Kinase CK2 Is Coassembled with Small Conductance Ca ²⁺ -Activated K ⁺ Channels and Regulates Channel Gating. <i>Neuron</i> , 2004, 43, 847-858.	8.1	176
14	Organization and Regulation of Small Conductance Ca ²⁺ -activated K ⁺ Channel Multiprotein Complexes. <i>Journal of Neuroscience</i> , 2007, 27, 2369-2376.	3.6	140
15	Modular composition and dynamics of native GABAB receptors identified by high-resolution proteomics. <i>Nature Neuroscience</i> , 2016, 19, 233-242.	14.8	120
16	Association with the Auxiliary Subunit PEX5R/Trip8b Controls Responsiveness of HCN Channels to cAMP and Adrenergic Stimulation. <i>Neuron</i> , 2009, 62, 814-825.	8.1	119
17	Auxiliary GABAB Receptor Subunits Uncouple G Protein $\beta\gamma$ Subunits from Effector Channels to Induce Desensitization. <i>Neuron</i> , 2014, 82, 1032-1044.	8.1	92
18	Complex formation of APP with GABAB receptors links axonal trafficking to amyloidogenic processing. <i>Nature Communications</i> , 2019, 10, 1331.	12.8	92

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19	A pharmacological master key mechanism that unlocks the selectivity filter gate in K ⁺ channels. <i>Science</i> , 2019, 363, 875-880.	12.6	91
20	Heteromeric channels formed by TRPC1, TRPC4 and TRPC5 define hippocampal synaptic transmission and working memory. <i>EMBO Journal</i> , 2017, 36, 2770-2789.	7.8	88
21	Carbonic anhydrase-related protein CA10 is an evolutionarily conserved pan-neurexin ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1253-E1262.	7.1	81
22	Profiling the Phospho-status of the BKCa Channel β Subunit in Rat Brain Reveals Unexpected Patterns and Complexity. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2188-2198.	3.8	79
23	AMPA-receptor specific biogenesis complexes control synaptic transmission and intellectual ability. <i>Nature Communications</i> , 2017, 8, 15910.	12.8	77
24	The Role of BKCa Channels in Electrical Signal Encoding in the Mammalian Auditory Periphery. <i>Journal of Neuroscience</i> , 2006, 26, 6181-6189.	3.6	75
25	Neuroplastin and Basigin Are Essential Auxiliary Subunits of Plasma Membrane Ca ²⁺ -ATPases and Key Regulators of Ca ²⁺ Clearance. <i>Neuron</i> , 2017, 96, 827-838.e9.	8.1	73
26	Distribution of the auxiliary GABA _B receptor subunits KCTD8, 12, 12b, and 16 in the mouse brain. <i>Journal of Comparative Neurology</i> , 2011, 519, 1435-1454.	1.6	71
27	Repolarizing Responses of BK _{Ca} Cav Complexes Are Distinctly Shaped by Their Cav Subunits. <i>Journal of Neuroscience</i> , 2008, 28, 8238-8245.	3.6	69
28	NMR Structure of the α -Ball-and-chain Domain of KCNMB2, the β 2-Subunit of Large Conductance Ca ²⁺ - and Voltage-activated Potassium Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 42116-42121.	3.4	62
29	More Than a Pore: Ion Channel Signaling Complexes. <i>Journal of Neuroscience</i> , 2014, 34, 15159-15169.	3.6	62
30	An ER Assembly Line of AMPA-Receptors Controls Excitatory Neurotransmission and Its Plasticity. <i>Neuron</i> , 2019, 104, 680-692.e9.	8.1	59
31	Cryo-slicing Blue Native-Mass Spectrometry (csBN-MS), a Novel Technology for High Resolution Complexome Profiling. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 669-681.	3.8	58
32	Cornichon2 Dictates the Time Course of Excitatory Transmission at Individual Hippocampal Synapses. <i>Neuron</i> , 2014, 82, 848-858.	8.1	50
33	Extending the Dynamic Range of Label-free Mass Spectrometric Quantification of Affinity Purifications. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.007955.	3.8	49
34	Opposite Effects of KCTD Subunit Domains on GABAB Receptor-mediated Desensitization. <i>Journal of Biological Chemistry</i> , 2012, 287, 39869-39877.	3.4	46
35	Ca ²⁺ -independent activation of BKCa channels at negative potentials in mammalian inner hair cells. <i>Journal of Physiology</i> , 2005, 569, 137-151.	2.9	45
36	A Helical Region in the C Terminus of Small-conductance Ca ²⁺ -activated K ⁺ Channels Controls Assembly with Apo-calmodulin. <i>Journal of Biological Chemistry</i> , 2002, 277, 4558-4564.	3.4	40

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37	Memantine Inhibits Efferent Cholinergic Transmission in the Cochlea by Blocking Nicotinic Acetylcholine Receptors of Outer Hair Cells. <i>Molecular Pharmacology</i> , 2001, 60, 183-189.	2.3	39
38	AMPA Receptors Commandeer an Ancient Cargo Exporter for Use as an Auxiliary Subunit for Signaling. <i>PLoS ONE</i> , 2012, 7, e30681.	2.5	34
39	Up-regulation of GABAB Receptor Signaling by Constitutive Assembly with the K ⁺ Channel Tetramerization Domain-containing Protein 12 (KCTD12). <i>Journal of Biological Chemistry</i> , 2013, 288, 24848-24856.	3.4	33
40	Inhibitory and excitatory axon terminals share a common nano-architecture of their Cav2.1 (P/Q-type) Ca ²⁺ channels. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 315.	3.7	33
41	The molecular appearance of native TRPM7 channel complexes identified by high-resolution proteomics. <i>ELife</i> , 2021, 10, .	6.0	30
42	Ligand-Gating by Ca ²⁺ Is Rate Limiting for Physiological Operation of BK _{Ca} Channels. <i>Journal of Neuroscience</i> , 2013, 33, 7358-7367.	3.6	29
43	Ion channels and their molecular environments – Glimpses and insights from functional proteomics. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 132-144.	5.0	28
44	Deorphanizing FAM19A proteins as pan-neurexin ligands with an unusual biosynthetic binding mechanism. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	26
45	Iontropic AMPA-type glutamate and metabotropic GABAB receptors: determining cellular physiology by proteomes. <i>Current Opinion in Neurobiology</i> , 2017, 45, 16-23.	4.2	21
46	NMR Analysis of KChIP4a Reveals Structural Basis for Control of Surface Expression of Kv4 Channel Complexes. <i>Journal of Biological Chemistry</i> , 2008, 283, 18937-18946.	3.4	19
47	KCTD12 Auxiliary Proteins Modulate Kinetics of GABA _B Receptor-Mediated Inhibition in Cholecystokinin-Containing Interneurons. <i>Cerebral Cortex</i> , 2017, 27, bhw090.	2.9	19
48	Membrane palmitoylated protein 2 is a synaptic scaffold protein required for synaptic SK2-containing channel function. <i>ELife</i> , 2016, 5, .	6.0	17
49	Building of AMPA-type glutamate receptors in the endoplasmic reticulum and its implication for excitatory neurotransmission. <i>Journal of Physiology</i> , 2021, 599, 2639-2653.	2.9	12
50	High-Resolution Complexome Profiling by Cryoslicing BN-MS Analysis. <i>Journal of Visualized Experiments</i> , 2019, . .	0.3	5
51	Identification of Cav2- ^{PKC} and Cav2- ^{NOS1} complexes as entities for ultrafast electrochemical coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5707-5712.	7.1	4
52	Folding unpredicted. <i>Science</i> , 2019, 366, 1194-1195.	12.6	3
53	BKCa-Cav channel complexes mediate rapid and localized Ca ²⁺ -activated K ⁺ signaling. <i>E-Neuroforum</i> , 2007, 13, 27-30.	0.1	2
54	Distribution of the auxiliary GABAB receptor subunits KCTD8, 12, 12b, and 16 in the mouse brain. <i>Journal of Comparative Neurology</i> , 2011, 519, spc1-spc1.	1.6	0