Christian Hansel

List of Publications by Year
in descending order

42 papers	4,194 citations	186265 28 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	3149 citing authors

#	Article	IF	Citations
1	Sensory Over-responsivity and Aberrant Plasticity in Cerebellar Cortex in a Mouse Model of Syndromic Autism. Biological Psychiatry Global Open Science, 2022, 2, 450-459.	2.2	4
2	The calcium sensor, rather than the route of calcium entry, defines cerebellar plasticity pathways. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	3
3	Behavioral Tests for Mouse Models of Autism: An Argument for the Inclusion of Cerebellum-Controlled Motor Behaviors. Neuroscience, 2021, 462, 303-319.	2.3	30
4	Part II. J. C. Eccles, R. Llinas and K. Sasaki, The Excitatory Synaptic Action of Climbing Fibres on the Purkinje Cells of the Cerebellum, J Physiol, 182: 268-296, 1966: the Rise of the Complex Spike. Cerebellum, 2021, 20, 330-339.	2.5	1
5	SK2 channels in cerebellar Purkinje cells contribute to excitability modulation in motor-learningâ€“specific memory traces. PLoS Biology, 2020, 18, e3000596.	5.6	54
6	Why is synaptic plasticity not enough?. Neurobiology of Learning and Memory, 2020, 176, 107336.	1.9	5
7	Intrinsic Excitability Increase in Cerebellar Purkinje Cells after Delay Eye-Blink Conditioning in Mice. Journal of Neuroscience, 2020, 40, 2038-2046.	3.6	34
8	Muscarinic Modulation of SK2-Type K⁺Channels Promotes Intrinsic Plasticity in L2/3 Pyramidal Neurons of the Mouse Primary Somatosensory Cortex. ENeuro, 2020, 7, ENEURO.0453-19.2020.	1.9	14
9	Complex spike clusters and falseâ€positive rejection in a cerebellar supervised learning rule. Journal of Physiology, 2019, 597, 4387-4406.	2.9	24
10	Synaptic Potential and Plasticity of an SK2 Channel Gate Regulate Spike Burst Activity in Cerebellar Purkinje Cells. IScience, 2018, 1, 49-54.	4.1	26
11	Toward a Neurocentric View of Learning. Neuron, 2017, 95, 19-32.	8.1	172
12	LTD-like molecular pathways in developmental synaptic pruning. Nature Neuroscience, 2016, 19, 1299-1310.	14.8	79
13	Calcium threshold shift enables frequency-independent control of plasticity by an instructive signal. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13221-13226.	7.1	40
14	Activity-Dependent Plasticity of Spike Pauses in Cerebellar Purkinje Cells. Cell Reports, 2016, 14, 2546-2553.	6.4	60
15	Asymmetries in Cerebellar Plasticity and Motor Learning. Cerebellum, 2016, 15, 87-92.	2.5	17
16	Cerebellar associative sensory learning defects in five mouse autism models. ELife, 2015, 4, e06085.	6.0	120
17	Cerebellar Long-Term Potentiation. International Review of Neurobiology, 2014, 117, 39-51.	2.0	32
18	Enhanced AMPA receptor function promotes cerebellar long-term depression rather than potentiation. Learning and Memory, 2014, 21, 662-667.	1.3	12

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19	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. Nature Communications, 2014, 5, 5586.	12.8	144
20	Muscarinic acetylcholine receptor activation blocks long-term potentiation at cerebellar parallel fiber-Purkinje cell synapses via cannabinoid signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11181-11186.	7.1	42
21	Ethanol affects NMDA receptor signaling at climbing fiber-Purkinje cell synapses in mice and impairs cerebellar LTD. Journal of Neurophysiology, 2013, 109, 1333-1342.	1.8	39
22	SK2 Channel Modulation Contributes to Compartment-Specific Dendritic Plasticity in Cerebellar Purkinje Cells. Neuron, 2012, 75, 108-120.	8.1	88
23	Non-Hebbian spike-timing-dependent plasticity in cerebellar circuits. Frontiers in Neural Circuits, 2012, 6, 124.	2.8	28
24	SK2 channel expression and function in cerebellar Purkinje cells. Journal of Physiology, 2011, 589, 3433-3440.	2.9	50
25	Intrinsic Plasticity Complements Long-Term Potentiation in Parallel Fiber Input Gain Control in Cerebellar Purkinje Cells. Journal of Neuroscience, 2010, 30, 13630-13643.	3.6	139
26	Purkinje Cell NMDA Receptors Assume a Key Role in Synaptic Gain Control in the Mature Cerebellum. Journal of Neuroscience, 2010, 30, 15330-15335.	3.6	90
27	Î²CaMKII controls the direction of plasticity at parallel fiberâ€“Purkinje cell synapses. Nature Neuroscience, 2009, 12, 823-825.	14.8	116
28	Reading the Clock: How Purkinje Cells Decode the Phase of Olivary Oscillations. Neuron, 2009, 62, 308-309.	8.1	13
29	Alcohol Impairs Long-Term Depression at the Cerebellar Parallel Fiberâ€“Purkinje Cell Synapse. Journal of Neurophysiology, 2008, 100, 3167-3174.	1.8	70
30	Synaptic Plasticity and Calcium Signaling in Purkinje Cells of the Central Cerebellar Lobes of Mormyrid Fish. Journal of Neuroscience, 2007, 27, 13499-13512.	3.6	29
31	Î±CaMKII Is Essential for Cerebellar LTD and Motor Learning. Neuron, 2006, 51, 835-843.	8.1	203
32	Synaptic Memories Upside Down: Bidirectional Plasticity at Cerebellar Parallel Fiber-Purkinje Cell Synapses. Neuron, 2006, 52, 227-238.	8.1	349
33	Climbing Fiber-Evoked Endocannabinoid Signaling Heterosynaptically Suppresses Presynaptic Cerebellar Long-Term Potentiation. Journal of Neuroscience, 2006, 26, 8289-8294.	3.6	53
34	A Role for Protein Phosphatases 1, 2A, and 2B in Cerebellar Long-Term Potentiation. Journal of Neuroscience, 2005, 25, 10768-10772.	3.6	142
35	When the B-team runs plasticity: GluR2 receptor trafficking in cerebellar long-term potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18245-18246.	7.1	10
36	Bidirectional Parallel Fiber Plasticity in the Cerebellum under Climbing Fiber Control. Neuron, 2004, 44, 691-700.	8.1	381

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37	Long-term depression of climbing fiber-evoked calcium transients in Purkinje cell dendrites. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2878-2883.	7.1	64
38	The Making of a Complex Spike: Ionic Composition and Plasticity. Annals of the New York Academy of Sciences, 2002, 978, 359-390.	3.8	139
39	Beyond parallel fiber LTD: the diversity of synaptic and non-synaptic plasticity in the cerebellum. Nature Neuroscience, 2001, 4, 467-475.	14.8	557
40	Long-Term Depression of the Cerebellar Climbing Fiberâ€"Purkinje Neuron Synapse. Neuron, 2000, 26, 473-482.	8.1	213
41	Expression of a Protein Kinase C Inhibitor in Purkinje Cells Blocks Cerebellar LTD and Adaptation of the Vestibulo-Ocular Reflex. Neuron, 1998, 20, 495-508.	8.1	383
42	Relation Between Dendritic Ca2+Levels and the Polarity of Synaptic Long-term Modifications in Rat Visual Cortex Neurons. European Journal of Neuroscience, 1997, 9, 2309-2322.	2.6	124