Chris I De Zeeuw

List of Publications by Year
in descending order

270	20,621	7568 77	14759 127
papers	citations	h-index	g-index

291	291	291	17630
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualization of Microtubule Growth in Cultured Neurons via the Use of EB3-GFP (End-Binding Protein) Tj ETQq1 1 0.784314 rgBT /Overl	3.6	624
2	CLASPs Are CLIP-115 and -170 Associating Proteins Involved in the Regional Regulation of Microtubule Dynamics in Motile Fibroblasts. Cell, 2001, 104, 923-935.	28.9	462
3	Distributed synergistic plasticity and cerebellar learning. Nature Reviews Neuroscience, 2012, 13, 619-635.	10.2	429
4	Paraneoplastic Cerebellar Ataxia Due to Autoantibodies against a Glutamate Receptor. New England Journal of Medicine, 2000, 342, 21-27.	27.0	412
5	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
6	Bidirectional Parallel Fiber Plasticity in the Cerebellum under Climbing Fiber Control. Neuron, 2004, 44, 691-700.	8.1	381
7	Spatiotemporal firing patterns in the cerebellum. Nature Reviews Neuroscience, 2011, 12, 327-344.	10.2	373
8	Bicaudal-D regulates COPI-independent Golgiâ€“ER transport by recruiting the dyneinâ€“dynactin motor complex. Nature Cell Biology, 2002, 4, 986-992.	10.3	357
9	A Cre-Dependent GCaMP3 Reporter Mouse for Neuronal ImagingIn Vivo. Journal of Neuroscience, 2012, 32, 3131-3141.	3.6	341
10	A cortico-cerebellar loop for motor planning. Nature, 2018, 563, 113-116.	27.8	321
11	Rescue of behavioral phenotype and neuronal protrusion morphology in Fmr1 KO mice. Neurobiology of Disease, 2008, 31, 127-132.	4.4	296
12	Reevaluating the Role of LTD in Cerebellar Motor Learning. Neuron, 2011, 70, 43-50.	8.1	291
13	Timing and plasticity in the cerebellum: focus on the granular layer. Trends in Neurosciences, 2009, 32, 30-40.	8.6	288
14	Shared Synaptic Pathophysiology in Syndromic and Nonsyndromic Rodent Models of Autism. Science, 2012, 338, 128-132.	12.6	278
15	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. Nature Neuroscience, 2009, 12, 1042-1049.	14.8	268
16	Transcription factor GATA-3 alters pathway selection of olivocochlear neurons and affects morphogenesis of the ear. Journal of Comparative Neurology, 2001, 429, 615-630.	1.6	263
17	Cerebellar modules operate at different frequencies. ELife, 2014, 3, e02536.	6.0	254
18	Activity-based protein profiling reveals off-target proteins of the FAAH inhibitor BIA 10-2474. Science, 2017, 356, 1084-1087.	12.6	251

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19	L1 knockout mice show dilated ventricles, vermis hypoplasia and impaired exploration patterns. Human Molecular Genetics, 1998, 7, 999-1009.	2.9	228
20	Neuron-Specific Expression of Mutant Superoxide Dismutase Is Sufficient to Induce Amyotrophic Lateral Sclerosis in Transgenic Mice. Journal of Neuroscience, 2008, 28, 2075-2088.	3.6	219
21	Time and tide in cerebellar memory formation. Current Opinion in Neurobiology, 2005, 15, 667-674.	4.2	213
22	Anatomical Pathways Involved in Generating and Sensing Rhythmic Whisker Movements. Frontiers in Integrative Neuroscience, 2011, 5, 53.	2.1	211
23	High cortical spreading depression susceptibility and migraineâ€associated symptoms in Ca_v2.1 S218L mice. Annals of Neurology, 2010, 67, 85-98.	5.3	206
24	Î±CaMKII Is Essential for Cerebellar LTD and Motor Learning. Neuron, 2006, 51, 835-843.	8.1	203
25	Evolving Models of Pavlovian Conditioning: Cerebellar Cortical Dynamics in Awake Behaving Mice. Cell Reports, 2015, 13, 1977-1988.	6.4	203
26	Role of Olivary Electrical Coupling in Cerebellar Motor Learning. Neuron, 2008, 58, 599-612.	8.1	199
27	Bicaudal D induces selective dynein-mediated microtubule minus end-directed transport. EMBO Journal, 2003, 22, 6004-6015.	7.8	196
28	Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. Science, 2012, 337, 749-753.	12.6	191
29	Elimination of Inhibitory Synapses Is a Major Component of Adult Ocular Dominance Plasticity. Neuron, 2012, 74, 374-383.	8.1	188
30	Cerebellar granule cells acquire a widespread predictive feedback signal during motor learning. Nature Neuroscience, 2017, 20, 727-734.	14.8	182
31	Dysfunctional cerebellar Purkinje cells contribute to autism-like behaviour in Shank2-deficient mice. Nature Communications, 2016, 7, 12627.	12.8	180
32	Effect of Simvastatin on Cognitive Functioning in Children With Neurofibromatosis Type 1. JAMA - Journal of the American Medical Association, 2008, 300, 287.	7.4	175
33	Motor Learning and the Cerebellum. Cold Spring Harbor Perspectives in Biology, 2015, 7, a021683.	5.5	175
34	Modulation of Presynaptic Plasticity and Learning by the H-ras/Extracellular Signal-Regulated Kinase/Synapsin I Signaling Pathway. Journal of Neuroscience, 2005, 25, 9721-9734.	3.6	170
35	Mechanisms underlying cerebellar motor deficits due to mGluR1-autoantibodies. Annals of Neurology, 2003, 53, 325-336.	5.3	169
36	Targeted mutation of Cyln2 in the Williams syndrome critical region links CLIP-115 haploinsufficiency to neurodevelopmental abnormalities in mice. Nature Genetics, 2002, 32, 116-127.	21.4	163

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37	High Bandwidth Synaptic Communication and Frequency Tracking in Human Neocortex. PLoS Biology, 2014, 12, e1002007.	5.6	163
38	Cerebellar LTD and Pattern Recognition by Purkinje Cells. Neuron, 2007, 54, 121-136.	8.1	161
39	Olivary projecting neurons in the nucleus of Darkschewitsch in the cat receive excitatory monosynaptic input from the cerebellar nuclei. Brain Research, 1994, 653, 345-350.	2.2	158
40	Calbindin in Cerebellar Purkinje Cells Is a Critical Determinant of the Precision of Motor Coordination. Journal of Neuroscience, 2003, 23, 3469-3477.	3.6	158
41	GATA-3 Is Involved in the Development of Serotonergic Neurons in the Caudal Raphe Nuclei. Journal of Neuroscience, 1999, 19, RC12-RC12.	3.6	141
42	Excitatory Cerebellar Nucleocortical Circuit Provides Internal Amplification during Associative Conditioning. Neuron, 2016, 89, 645-657.	8.1	141
43	Deformation of Network Connectivity in the Inferior Olive of Connexin 36-Deficient Mice Is Compensated by Morphological and Electrophysiological Changes at the Single Neuron Level. Journal of Neuroscience, 2003, 23, 4700-4711.	3.6	140
44	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
45	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
46	Impairment of LTD and cerebellar learning by Purkinje cellâ€“specific ablation of cGMP-dependent protein kinase I. Journal of Cell Biology, 2003, 163, 295-302.	5.2	136
47	Visuomotor Cerebellum in Human and Nonhuman Primates. Cerebellum, 2012, 11, 392-410.	2.5	136
48	Strength and timing of motor responses mediated by rebound firing in the cerebellar nuclei after Purkinje cell activation. Frontiers in Neural Circuits, 2013, 7, 133.	2.8	135
49	Differential olivo-cerebellar cortical control of rebound activity in the cerebellar nuclei. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8410-8415.	7.1	134
50	Silencing the Majority of Cerebellar Granule Cells Uncovers Their Essential Role in Motor Learning and Consolidation. Cell Reports, 2013, 3, 1239-1251.	6.4	134
51	The Sleeping Cerebellum. Trends in Neurosciences, 2017, 40, 309-323.	8.6	127
52	Purkinje cells in awake behaving animals operate at the upstate membrane potential. Nature Neuroscience, 2006, 9, 459-461.	14.8	125
53	Endocochlear potential depends on Clâ^' channels: mechanism underlying deafness in Bartter syndrome IV. EMBO Journal, 2008, 27, 2907-2917.	7.8	123
54	Cerebellar output controls generalized spikeâ€andâ€wave discharge occurrence. Annals of Neurology, 2015, 77, 1027-1049.	5.3	123

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55	Cerebellar molecular layer interneurons â€“ computational properties and roles in learning. Trends in Neurosciences, 2010, 33, 524-532.	8.6	121
56	The human cerebellum has almost 80% of the surface area of the neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19538-19543.	7.1	117
57	Î²CaMKII controls the direction of plasticity at parallel fiberâ€“Purkinje cell synapses. Nature Neuroscience, 2009, 12, 823-825.	14.8	116
58	fMRI Activities in the Emotional Cerebellum: A Preference for Negative Stimuli and Goal-Directed Behavior. Cerebellum, 2012, 11, 233-245.	2.5	115
59	Climbing Fiber Input Shapes Reciprocity of Purkinje Cell Firing. Neuron, 2013, 78, 700-713.	8.1	115
60	Expression pattern of lacZ reporter gene representing connexin36 in transgenic mice. Journal of Comparative Neurology, 2004, 473, 511-525.	1.6	114
61	Diversity and dynamism in the cerebellum. Nature Neuroscience, 2021, 24, 160-167.	14.8	114
62	Phosphatidylserine plasma membrane asymmetry in vivo: a pancellular phenomenon which alters during apoptosis. Cell Death and Differentiation, 1997, 4, 311-316.	11.2	112
63	Cerebellar control of gait and interlimb coordination. Brain Structure and Function, 2015, 220, 3513-3536.	2.3	109
64	Regular Patterns in Cerebellar Purkinje Cell Simple Spike Trains. PLoS ONE, 2007, 2, e485.	2.5	107
65	NINscope, a versatile miniscope for multi-region circuit investigations. ELife, 2020, 9, .	6.0	107
66	Familial Alzheimerâ€™s diseaseâ€“associated presenilin-1 alters cerebellar activity and calcium homeostasis. Journal of Clinical Investigation, 2014, 124, 1552-1567.	8.2	104
67	Role of Synchronous Activation of Cerebellar Purkinje Cell Ensembles in Multi-joint Movement Control. Current Biology, 2015, 25, 1157-1165.	3.9	103
68	In Situ detection of apoptosis during embryogenesis with Annexin V: From whole mount to ultrastructure. , 1997, 29, 313-320.		100
69	Encoding of whisker input by cerebellar Purkinje cells. Journal of Physiology, 2010, 588, 3757-3783.	2.9	100
70	CLIP-115, a Novel Brain-Specific Cytoplasmic Linker Protein, Mediates the Localization of Dendritic Lamellar Bodies. Neuron, 1997, 19, 1187-1199.	8.1	97
71	Motor Learning Requires Purkinje Cell Synaptic Potentiation through Activation of AMPA-Receptor Subunit GluA3. Neuron, 2017, 93, 409-424.	8.1	93
72	Dynamic modulation of activity in cerebellar nuclei neurons during pavlovian eyeblink conditioning in mice. ELife, 2017, 6, .	6.0	90

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73	The Roles of the Olivocerebellar Pathway in Motor Learning and Motor Control. A Consensus Paper. Cerebellum, 2017, 16, 230-252.	2.5	89
74	Zonal organization of the mouse flocculus: Physiology, input, and output. Journal of Comparative Neurology, 2006, 497, 670-682.	1.6	88
75	Donâ€™t get too excited: mechanisms of glutamate-mediated Purkinje cell death. Progress in Brain Research, 2005, 148, 367-390.	1.4	87
76	Cerebellar and extracerebellar involvement in mouse eyeblink conditioning: the ACDC model. Frontiers in Cellular Neuroscience, 2010, 3, 19.	3.7	87
77	Spatial navigation impairment in mice lacking cerebellar LTD: a motor adaptation deficit?. Nature Neuroscience, 2005, 8, 1292-1294.	14.8	86
78	Causes and Consequences of Oscillations in the Cerebellar Cortex. Neuron, 2008, 58, 655-658.	8.1	85
79	Genetic Dissection of the Function of Hindbrain Axonal Commissures. PLoS Biology, 2010, 8, e1000325.	5.6	85
80	Formation of microtubule-based traps controls the sorting and concentration of vesicles to restricted sites of regenerating neurons after axotomy. Journal of Cell Biology, 2007, 176, 497-507.	5.2	84
81	Cerebellar Ataxia by Enhanced Ca_V2.1 Currents Is Alleviated by Ca²⁺-Dependent K⁺-Channel Activators inCacna1a^{S218L}Mutant Mice. Journal of Neuroscience, 2012, 32, 15533-15546.	3.6	84
82	LIMK1 and CLIP-115: linking cytoskeletal defects to Williams syndrome. BioEssays, 2004, 26, 141-150.	2.5	83
83	Climbing Fiber Burst Size and Olivary Sub-threshold Oscillations in a Network Setting. PLoS Computational Biology, 2012, 8, e1002814.	3.2	83
84	Hearing loss following Gata3 haploinsufficiency is caused by cochlear disorder. Neurobiology of Disease, 2004, 16, 169-178.	4.4	81
85	Bidirectional learning in upbound and downbound microzones of the cerebellum. Nature Reviews Neuroscience, 2021, 22, 92-110.	10.2	81
86	Eye Movements of the Murine P/Q Calcium Channel Mutant Tottering, and the Impact of Aging. Journal of Neurophysiology, 2006, 95, 1588-1607.	1.8	80
87	Repeated mild injury causes cumulative damage to hippocampal cells. Brain, 2002, 125, 2699-2709.	7.6	79
88	An Xpd mouse model for the combined xeroderma pigmentosum/Cockayne syndrome exhibiting both cancer predisposition and segmental progeria. Cancer Cell, 2006, 10, 121-132.	16.8	78
89	Estradiol Improves Cerebellar Memory Formation by Activating Estrogen Receptor Î². Journal of Neuroscience, 2007, 27, 10832-10839.	3.6	77
90	Controlling Cerebellar Output to Treat Refractory Epilepsy. Trends in Neurosciences, 2015, 38, 787-799.	8.6	77

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91	Axonal Sprouting and Formation of Terminals in the Adult Cerebellum during Associative Motor Learning. Journal of Neuroscience, 2013, 33, 17897-17907.	3.6	76
92	Regional functionality of the cerebellum. Current Opinion in Neurobiology, 2015, 33, 150-155.	4.2	74
93	Raising cytosolic Cl^{â˜}in cerebellar granule cells affects their excitability and vestibulo-ocular learning. EMBO Journal, 2012, 31, 1217-1230.	7.8	73
94	Hippocampalâ€“Cerebellar Interaction During Spatio-Temporal Prediction. Cerebral Cortex, 2015, 25, 313-321.	2.9	73
95	Differentiating Cerebellar Impact on Thalamic Nuclei. Cell Reports, 2018, 23, 2690-2704.	6.4	71
96	Alcohol Impairs Long-Term Depression at the Cerebellar Parallel Fiberâ€“Purkinje Cell Synapse. Journal of Neurophysiology, 2008, 100, 3167-3174.	1.8	70
97	Inhibition of Protein Kinase C Prevents Purkinje Cell Death But Does Not Affect Axonal Regeneration. Journal of Neuroscience, 2002, 22, 3531-3542.	3.6	69
98	High Frequency Burst Firing of Granule Cells Ensures Transmission at the Parallel Fiber to Purkinje Cell Synapse at the Cost of Temporal Coding. Frontiers in Neural Circuits, 2013, 7, 95.	2.8	69
99	T-type channel blockade impairs long-term potentiation at the parallel fiberâ€“Purkinje cell synapse and cerebellar learning. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20302-20307.	7.1	65
100	Cerebellar plasticity and associative memories are controlled by perineuronal nets. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6855-6865.	7.1	65
101	Gain adaptation and phase dynamics of compensatory eye movements in mice. Genes and Function, 1997, 1, 175-190.	2.8	64
102	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
103	The Neuronal Code(s) of the Cerebellum. Journal of Neuroscience, 2013, 33, 17603-17609.	3.6	64
104	Behavioral Correlates of Complex Spike Synchrony in Cerebellar Microzones. Journal of Neuroscience, 2014, 34, 8937-8947.	3.6	63
105	Cerebellar Potentiation and Learning a Whisker-Based Object Localization Task with a Time Response Window. Journal of Neuroscience, 2014, 34, 1949-1962.	3.6	61
106	Functional Ultrasound (fUS) During Awake Brain Surgery: The Clinical Potential of Intra-Operative Functional and Vascular Brain Mapping. Frontiers in Neuroscience, 2019, 13, 1384.	2.8	61
107	Reducing GBA2 Activity Ameliorates Neuropathology in Niemann-Pick Type C Mice. PLoS ONE, 2015, 10, e0135889.	2.5	61
108	Time window control: a model for cerebellar function based on synchronization, reverberation, and time slicing. Progress in Brain Research, 2000, 124, 275-297.	1.4	60

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109	Light Stimulus Frequency Dependence of Activity in the Rat Visual System as Studied With High-Resolution BOLD fMRI. Journal of Neurophysiology, 2006, 95, 3164-3170.	1.8	60
110	Hearing loss in infantile Pompe's disease and determination of underlying pathology in the knockout mouse. Neurobiology of Disease, 2004, 16, 14-20.	4.4	59
111	A Cerebellar Learning Model of Vestibulo-Ocular Reflex Adaptation in Wild-Type and Mutant Mice. Journal of Neuroscience, 2014, 34, 7203-7215.	3.6	59
112	Spinocerebellar Ataxia Type 6 Protein Aggregates Cause Deficits in Motor Learning and Cerebellar Plasticity. Journal of Neuroscience, 2015, 35, 8882-8895.	3.6	59
113	Olivary subthreshold oscillations and burst activity revisited. Frontiers in Neural Circuits, 2012, 6, 91.	2.8	57
114	Potentiation of cerebellar Purkinje cells facilitates whisker reflex adaptation through increased simple spike activity. ELife, 2018, 7, .	6.0	57
115	The anatomy of fear learning in the cerebellum: A systematic meta-analysis. Neuroscience and Biobehavioral Reviews, 2015, 59, 83-91.	6.1	55
116	A cerebellar mechanism for learning prior distributions of time intervals. Nature Communications, 2018, 9, 469.	12.8	54
117	SK2 channels in cerebellar Purkinje cells contribute to excitability modulation in motor-learningâ€“specific memory traces. PLoS Biology, 2020, 18, e3000596.	5.6	54
118	Adaptive Stress Response in Segmental Progeria Resembles Long-Lived Dwarfism and Calorie Restriction in Mice. PLoS Genetics, 2006, 2, e192.	3.5	53
119	The MurineCYLN2Gene: Genomic Organization, Chromosome Localization, and Comparison to the Human Gene That Is Located within the 7q11.23 Williams Syndrome Critical Region. Genomics, 1998, 53, 348-358.	2.9	52
120	Properties of the Nucleo-Olivary Pathway: An In Vivo Whole-Cell Patch Clamp Study. PLoS ONE, 2012, 7, e46360.	2.5	52
121	Time windows and reverberating loops: a reverse-engineering approach to cerebellar function. Cerebellum, 2003, 2, 44-54.	2.5	51
122	Mechanisms underlying vestibuloâ€cerebellar motor learning in mice depend on movement direction. Journal of Physiology, 2017, 595, 5301-5326.	2.9	51
123	Reversibility of neuropathology and motor deficits in an inducible mouse model for FXTAS. Human Molecular Genetics, 2015, 24, 4948-4957.	2.9	50
124	Spatiotemporal distribution of Connexin45 in the olivocerebellar system. Journal of Comparative Neurology, 2006, 495, 173-184.	1.6	49
125	Changes of Cerebral Blood Flow during the Secondary Expansion of a Cortical Contusion Assessed by¹⁴C-Iodoantipyrine Autoradiography in Mice Using a Non-Invasive Protocol. Journal of Neurotrauma, 2008, 25, 739-753.	3.4	49
126	Gating of Long-Term Potentiation by Nicotinic Acetylcholine Receptors at the Cerebellum Input Stage. PLoS ONE, 2013, 8, e64828.	2.5	49

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127	Impact of parallel fiber to Purkinje cell long-term depression is unmasked in absence of inhibitory input. Science Advances, 2018, 4, eaas9426.	10.3	49
128	Reappraisal of Bergmann glial cells as modulators of cerebellar circuit function. Frontiers in Cellular Neuroscience, 2015, 9, 246.	3.7	48
129	Cerebellar Cortex and Cerebellar Nuclei Are Concomitantly Activated during Eyeblink Conditioning: A 7T fMRI Study in Humans. Journal of Neuroscience, 2015, 35, 1228-1239.	3.6	48
130	Wireless closed-loop optogenetics across the entire dorsoventral spinal cord in mice. Nature Biotechnology, 2022, 40, 198-208.	17.5	48
131	Interaction between Ocular Stabilization Reflexes in Patients with Whiplash Injury. , 2006, 47, 2881.		45
132	TRPC3 is a major contributor to functional heterogeneity of cerebellar Purkinje cells. ELife, 2019, 8, .	6.0	45
133	Differential Amplification of Intron-containing Transcripts Reveals Long Term Potentiation-associated Up-regulation of Specific Pde10A Phosphodiesterase Splice Variants. Journal of Biological Chemistry, 2004, 279, 15841-15849.	3.4	43
134	Role of the Cerebellar Cortex in Conditioned Goal-Directed Behavior. Journal of Neuroscience, 2010, 30, 13265-13271.	3.6	43
135	Synaptic Transmission and Plasticity at Inputs to Murine Cerebellar Purkinje Cells Are Largely Dispensable for Standard Nonmotor Tasks. Journal of Neuroscience, 2013, 33, 12599-12618.	3.6	42
136	Dissociation of locomotor and cerebellar deficits in a murine Angelman syndrome model. Journal of Clinical Investigation, 2015, 125, 4305-4315.	8.2	40
137	Altered olivocerebellar activity patterns in the connexin36 knockout mouse. Cerebellum, 2007, 6, 287-299.	2.5	39
138	The Centromeric/Nucleolar Chromatin Protein ZFP-37 May Function to Specify Neuronal Nuclear Domains. Journal of Biological Chemistry, 1998, 273, 9099-9109.	3.4	38
139	Purkinje Cell-Specific Ablation of CaV2.1 Channels is Sufficient to Cause Cerebellar Ataxia in Mice. Cerebellum, 2012, 11, 246-258.	2.5	38
140	Variable timing of synaptic transmission in cerebellar unipolar brush cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5403-5408.	7.1	38
141	Action perception recruits the cerebellum and is impaired in patients with spinocerebellar ataxia. Brain, 2019, 142, 3791-3805.	7.6	38
142	Adaptation of the Cervico- and Vestibulo-Ocular Reflex in Whiplash Injury Patients. Journal of Neurotrauma, 2008, 25, 687-693.	3.4	37
143	The Formation of Hierarchical Decisions in the Visual Cortex. Neuron, 2015, 87, 1344-1356.	8.1	37
144	Nystagmus in patients with congenital stationary night blindness (CSNB) originates from synchronously firing retinal ganglion cells. PLoS Biology, 2019, 17, e3000174.	5.6	37

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145	Neurons of the inferior olive respond to broad classes of sensory input while subject to homeostatic control. Journal of Physiology, 2019, 597, 2483-2514.	2.9	37
146	Impact of conventional anesthesia on auditory brainstem responses in mice. Hearing Research, 2004, 193, 75-82.	2.0	36
147	Vestibular Role of KCNQ4 and KCNQ5 K+ Channels Revealed by Mouse Models. Journal of Biological Chemistry, 2013, 288, 9334-9344.	3.4	36
148	Chloride Homeostasis in Neurons With Special Emphasis on the Olivocerebellar System: Differential Roles for Transporters and Channels. Frontiers in Cellular Neuroscience, 2018, 12, 101.	3.7	36
149	Dynamical Working Memory and Timed Responses: The Role of Reverberating Loops in the Olivo-Cerebellar System. Neural Computation, 2002, 14, 2597-2626.	2.2	35
150	Cerebellar perineuronal nets in cocaine-induced pavlovian memory: Site matters. Neuropharmacology, 2017, 125, 166-180.	4.1	35
151	Tactile Stimulation Evokes Long-Lasting Potentiation of Purkinje Cell Discharge In Vivo. Frontiers in Cellular Neuroscience, 2016, 10, 36.	3.7	32
152	Ablation of TFR1 in Purkinje Cells Inhibits mGlu1 Trafficking and Impairs Motor Coordination, But Not Autistic-Like Behaviors. Journal of Neuroscience, 2017, 37, 11335-11352.	3.6	32
153	Whole-Cell Properties of Cerebellar Nuclei Neurons In Vivo. PLoS ONE, 2016, 11, e0165887.	2.5	32
154	Purkinje Cell Input to Cerebellar Nuclei in Tottering: Ultrastructure and Physiology. Cerebellum, 2008, 7, 547-558.	2.5	31
155	Motor Learning in Children with Neurofibromatosis Type I. Cerebellum, 2011, 10, 14-21.	2.5	31
156	Cerebellar Purkinje cells can differentially modulate coherence between sensory and motor cortex depending on region and behavior. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	31
157	Protein kinase C activity is a protective modifier of Purkinje neuron degeneration in cerebellar ataxia. Human Molecular Genetics, 2018, 27, 1396-1410.	2.9	30
158	Cell death, glial protein alterations and elevated S-100Î² release in cerebellar cell cultures following mechanically induced trauma. Neurobiology of Disease, 2004, 15, 563-572.	4.4	29
159	Functional Convergence of Autonomic and Sensorimotor Processing in the Lateral Cerebellum. Cell Reports, 2020, 32, 107867.	6.4	29
160	Otolith Deprivation Induces Optokinetic Compensation. Journal of Neurophysiology, 2005, 94, 3487-3496.	1.8	28
161	Slc26a11 is prominently expressed in the brain and functions as a chloride channel: expression in Purkinje cells and stimulation of V H+-ATPase. Pflugers Archiv European Journal of Physiology, 2013, 465, 1583-1597.	2.8	28
162	Ubiquitin ligase TRIM3 controls hippocampal plasticity and learning by regulating synaptic Î³-actin levels. Journal of Cell Biology, 2015, 211, 569-586.	5.2	28

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163	Cerebellar Granule Cells: Dense, Rich and Evolving Representations. Current Biology, 2017, 27, R415-R418.	3.9	28
164	Differential effects of Foxp2 disruption in distinct motor circuits. Molecular Psychiatry, 2019, 24, 447-462.	7.9	28
165	Stress, caffeine and ethanol trigger transient neurological dysfunction through shared mechanisms in a mouse calcium channelopathy. Neurobiology of Disease, 2013, 50, 151-159.	4.4	27
166	Cerebellar motor learning deficits in medicated and medication-free men with recent-onset schizophrenia. Journal of Psychiatry and Neuroscience, 2014, 39, E3-E11.	2.4	27
167	Numb deficiency in cerebellar Purkinje cells impairs synaptic expression of metabotropic glutamate receptor and motor coordination. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15474-15479.	7.1	27
168	Circling behavior in theEcl mouse is caused by lateral semicircular canal defects. Journal of Comparative Neurology, 2004, 468, 587-595.	1.6	26
169	STD-Dependent and Independent Encoding of Input Irregularity as Spike Rate in a Computational Model of a Cerebellar Nucleus Neuron. Cerebellum, 2011, 10, 667-682.	2.5	26
170	Performance in eyeblink conditioning is age and sex dependent. PLoS ONE, 2017, 12, e0177849.	2.5	26
171	Clinical, electrophysiological, and cutaneous innervation changes in patients with bortezomib-induced peripheral neuropathy reveal insight into mechanisms of neuropathic pain. Molecular Pain, 2018, 14, 174480691879704.	2.1	26
172	Differential Coding Strategies in Glutamatergic and GABAergic Neurons in the Medial Cerebellar Nucleus. Journal of Neuroscience, 2020, 40, 159-170.	3.6	26
173	How the COVID-19 pandemic highlights the necessity of animal research. Current Biology, 2020, 30, R1014-R1018.	3.9	26
174	Questioning the Cerebellar Doctrine. Progress in Brain Research, 2014, 210, 59-77.	1.4	25
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