

Egidio D Angelo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211
papers

7,829
citations

50
h-index

80
g-index

252
ext. papers

9,553
ext. citations

5.3
avg, IF

6.21
L-index

#	Paper	IF	Citations
211	Discovering Microcircuit Secrets With Multi-Spot Imaging and Electrophysiological Recordings: The Example of Cerebellar Network Dynamics.. <i>Frontiers in Cellular Neuroscience</i> , 2022 , 16, 805670	6.1	0
210	Cerebellar Granule Cell 2022 , 837-862		
209	Cerebellar Granule Cell 2021 , 1-27		
208	Granular layer Simulator: Design and Multi-GPU Simulation of the Cerebellar Granular Layer. <i>Frontiers in Computational Neuroscience</i> , 2021 , 15, 630795	3.5	1
207	Real-Time Simulation of a Cerebellar Scaffold Model on Graphics Processing Units. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 623552	6.1	0
206	Blood Oxygenation Level-Dependent Response to Multiple Grip Forces in Multiple Sclerosis: Going Beyond the Main Effect of Movement in Brodmann Area 4a and 4p. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 616028	6.1	0
205	Towards a Bio-Inspired Real-Time Neuromorphic Cerebellum. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 622870	6.1	0
204	Motor and higher-order functions topography of the human dentate nuclei identified with tractography and clustering methods. <i>Human Brain Mapping</i> , 2021 , 42, 4348-4361	5.9	3
203	Computational Modelling of Cerebellar Magnetic Stimulation: The Effect of Washout. <i>Lecture Notes in Computer Science</i> , 2021 , 35-46	0.9	0
202	Automatic Segmentation of Dentate Nuclei for Microstructure Assessment: Example of Application to Temporal Lobe Epilepsy Patients. <i>Mathematics and Visualization</i> , 2021 , 263-278	0.6	0
201	The effects of the general anesthetic sevoflurane on neurotransmission: an experimental and computational study. <i>Scientific Reports</i> , 2021 , 11, 4335	4.9	2
200	Stellate cell computational modeling predicts signal filtering in the molecular layer circuit of cerebellum. <i>Scientific Reports</i> , 2021 , 11, 3873	4.9	5
199	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021 , 243, 118502	7.9	18
198	Modeling Early Phases of COVID-19 Pandemic in Northern Italy and Its Implication for Outbreak Diffusion.. <i>Frontiers in Public Health</i> , 2021 , 9, 724362	6	0
197	Parameter tuning differentiates granule cell subtypes enriching transmission properties at the cerebellum input stage. <i>Communications Biology</i> , 2020 , 3, 222	6.7	12
196	A Machine Learning Approach for the Differential Diagnosis of Alzheimer and Vascular Dementia Fed by MRI Selected Features. <i>Frontiers in Neuroinformatics</i> , 2020 , 14, 25	3.9	24
195	Unsuspected Involvement of Spinal Cord in Alzheimer Disease. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 6	6.1	7

194	Cerebellar Golgi cell models predict dendritic processing and mechanisms of synaptic plasticity. <i>PLoS Computational Biology</i> , 2020 , 16, e1007937	5	5
193	Medical Informatics Platform (MIP): A Pilot Study Across Clinical Italian Cohorts. <i>Frontiers in Neurology</i> , 2020 , 11, 1021	4.1	3
192	Deletion of calcineurin from GFAP-expressing astrocytes impairs excitability of cerebellar and hippocampal neurons through astroglial Na ⁺ /K ⁺ ATPase. <i>Glia</i> , 2020 , 68, 543-560	9	10
191	Frontal and Cerebellar Atrophy Supports FTSD-ALS Clinical Continuum. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 593526	5.3	1
190	Cellular-resolution mapping uncovers spatial adaptive filtering at the rat cerebellum input stage. <i>Communications Biology</i> , 2020 , 3, 635	6.7	9
189	The Importance of Cerebellar Connectivity on Simulated Brain Dynamics. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 240	6.1	4
188	The Optogenetic Revolution in Cerebellar Investigations. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
187	Cerebellar Golgi cell models predict dendritic processing and mechanisms of synaptic plasticity 2020 , 16, e1007937		
186	Cerebellar Golgi cell models predict dendritic processing and mechanisms of synaptic plasticity 2020 , 16, e1007937		
185	Cerebellar Golgi cell models predict dendritic processing and mechanisms of synaptic plasticity 2020 , 16, e1007937		
184	Cerebellar Golgi cell models predict dendritic processing and mechanisms of synaptic plasticity 2020 , 16, e1007937		
183	Hyperexcitability and Hyperplasticity Disrupt Cerebellar Signal Transfer in the KO Mouse Model of Autism. <i>Journal of Neuroscience</i> , 2019 , 39, 2383-2397	6.6	8
182	Reconstruction and Simulation of a Scaffold Model of the Cerebellar Network. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 37	3.9	24
181	GPU Parallelization of Realistic Purkinje Cells with Complex Morphology 2019 ,		2
180	Long-Lasting Response Changes in Deep Cerebellar Nuclei Correlate With Low-Frequency Oscillations. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 84	6.1	6
179	Control of a Humanoid NAO Robot by an Adaptive Bioinspired Cerebellar Module in 3D Motion Tasks. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 4862157	3	10
178	Default Mode Network Structural Integrity and Cerebellar Connectivity Predict Information Processing Speed Deficit in Multiple Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 21	6.1	8
177	The Human Brain Project-Synergy between neuroscience, computing, informatics, and brain-inspired technologies. <i>PLoS Biology</i> , 2019 , 17, e3000344	9.7	28

176	Response Dynamics in an Olivocerebellar Spiking Neural Network With Non-linear Neuron Properties. <i>Frontiers in Computational Neuroscience</i> , 2019 , 13, 68	3.5	2
175	Complex Electroresponsive Dynamics in Olivocerebellar Neurons Represented With Extended-Generalized Leaky Integrate and Fire Models. <i>Frontiers in Computational Neuroscience</i> , 2019 , 13, 35	3.5	3
174	Disrupted Calcium Signaling in Animal Models of Human Spinocerebellar Ataxia (SCA). <i>International Journal of Molecular Sciences</i> , 2019 , 21,	6.3	14
173	Implementation of an Advanced Frequency-Based Hebbian Spike Timing Dependent Plasticity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 3005-3009	0.9	1
172	Diverse Neuron Properties and Complex Network Dynamics in the Cerebellar Cortical Inhibitory Circuit. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 267	6.1	10
171	Glutamate triggers intracellular Ca oscillations and nitric oxide release by inducing NAADP- and InsP ₃ -dependent Ca release in mouse brain endothelial cells. <i>Journal of Cellular Physiology</i> , 2019 , 234, 3538-3554	7	31
170	The cerebellum gets social. <i>Science</i> , 2019 , 363, 229	33.3	11
169	Exploiting multi-core and many-core architectures for efficient simulation of biologically realistic models of Golgi cells. <i>Journal of Parallel and Distributed Computing</i> , 2019 , 126, 48-66	4.4	2
168	I See Your Effort: Force-Related BOLD Effects in an Extended Action Execution-Observation Network Involving the Cerebellum. <i>Cerebral Cortex</i> , 2019 , 29, 1351-1368	5.1	11
167	Consensus paper: Decoding the Contributions of the Cerebellum as a Time Machine. From Neurons to Clinical Applications. <i>Cerebellum</i> , 2019 , 18, 266-286	4.3	59
166	The role of the cerebellum in multiple sclerosis-150 years after Charcot. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 89, 85-98	9	31
165	Dynamic Redistribution of Plasticity in a Cerebellar Spiking Neural Network Reproducing an Associative Learning Task Perturbed by TMS. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850020	6.2	21
164	Understanding Cerebellum Granular Layer Network Computations through Mathematical Reconstructions of Evoked Local Field Potentials. <i>Annals of Neurosciences</i> , 2018 , 25, 11-24	1.1	3
163	A Multiple-Plasticity Spiking Neural Network Embedded in a Closed-Loop Control System to Model Cerebellar Pathologies. <i>International Journal of Neural Systems</i> , 2018 , 28, 1750017	6.2	33
162	Specific Patterns of White Matter Alterations Help Distinguishing Alzheimer's and Vascular Dementia. <i>Frontiers in Neuroscience</i> , 2018 , 12, 274	5.1	32
161	Physiology of the cerebellum. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2018 , 154, 85-108	3	54
160	Potentiation of cerebellar Purkinje cells facilitates whisker reflex adaptation through increased simple spike activity. <i>ELife</i> , 2018 , 7,	8.9	32
159	Complex Dynamics in Simplified Neuronal Models: Reproducing Golgi Cell Electroresponsiveness. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 88	3.9	15

158	Prominent Changes in Cerebro-Cerebellar Functional Connectivity During Continuous Cognitive Processing. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 331	6.1	15
157	Cerebellar Theta-Burst Stimulation Impairs Memory Consolidation in Eyeblink Classical Conditioning. <i>Neural Plasticity</i> , 2018 , 2018, 6856475	3.3	10
156	Functional Connectivity Alterations Reveal Complex Mechanisms Based on Clinical and Radiological Status in Mild Relapsing Remitting Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2018 , 9, 690	4.1	21
155	Cerebellar Learning Properties Are Modulated by the CRF Receptor. <i>Journal of Neuroscience</i> , 2018 , 38, 6751-6765	6.6	4
154	Hebbian Spike-Timing Dependent Plasticity at the Cerebellar Input Stage. <i>Journal of Neuroscience</i> , 2017 , 37, 2809-2823	6.6	34
153	Acetylcholine induces intracellular Ca oscillations and nitric oxide release in mouse brain endothelial cells. <i>Cell Calcium</i> , 2017 , 66, 33-47	4	48
152	Granular Layer Neurons Control Cerebellar Neurovascular Coupling Through an NMDA Receptor/NO-Dependent System. <i>Journal of Neuroscience</i> , 2017 , 37, 1340-1351	6.6	43
151	Contralateral cortico-ponto-cerebellar pathways reconstruction in humans in vivo: implications for reciprocal cerebro-cerebellar structural connectivity in motor and non-motor areas. <i>Scientific Reports</i> , 2017 , 7, 12841	4.9	78
150	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. <i>BMC Neuroscience</i> , 2017 , 18,	3.2	2
149	Cerebellar lobules and dentate nuclei mirror cortical force-related-BOLD responses: Beyond all (linear) expectations. <i>Human Brain Mapping</i> , 2017 , 38, 2566-2579	5.9	9
148	Model-Driven Analysis of Eyeblink Classical Conditioning Reveals the Underlying Structure of Cerebellar Plasticity and Neuronal Activity. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 2748-2762	10.3	16
147	Spiking cerebellar model with damaged cortical Neural population reproduces human ataxic behaviors in perturbed upper limb reaching 2017 ,		2
146	Single Neuron Optimization as a Basis for Accurate Biophysical Modeling: The Case of Cerebellar Granule Cells. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 71	6.1	19
145	Activation of the CREB/ Pathway during Long-Term Synaptic Plasticity in the Cerebellum Granular Layer. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 184	6.1	30
144	Synaptic Activation of a Detailed Purkinje Cell Model Predicts Voltage-Dependent Control of Burst-Pause Responses in Active Dendrites. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 278	6.1	30
143	Spiking Neural Network With Distributed Plasticity Reproduces Cerebellar Learning in Eye Blink Conditioning Paradigms. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 210-9	5	31
142	Distributed Circuit Plasticity: New Clues for the Cerebellar Mechanisms of Learning. <i>Cerebellum</i> , 2016 , 15, 139-51	4.3	50
141	Complex motor task associated with non-linear BOLD responses in cerebro-cortical areas and cerebellum. <i>Brain Structure and Function</i> , 2016 , 221, 2443-58	4	16

140	FHF-independent conduction of action potentials along the leak-resistant cerebellar granule cell axon. <i>Nature Communications</i> , 2016 , 7, 12895	17.4	20
139	Oscillation-Driven Spike-Timing Dependent Plasticity Allows Multiple Overlapping Pattern Recognition in Inhibitory Interneuron Networks. <i>International Journal of Neural Systems</i> , 2016 , 26, 1650020	6.2	28
138	The Human Brain Project: Parallel technologies for biologically accurate simulation of Granule cells. <i>Microprocessors and Microsystems</i> , 2016 , 47, 303-313	2.4	9
137	A TMS investigation on the role of the cerebellum in pitch and timbre discrimination. <i>Cerebellum and Ataxias</i> , 2016 , 3, 6	1.7	5
136	Reconstructing contralateral fiber tracts: methodological aspects of cerebello-thalamocortical pathway reconstruction. <i>Functional Neurology</i> , 2016 , 31, 229-238	2.2	10
135	Challenging Marr's theory of the cerebellum 2016 , 62-78		5
134	Distributed Plasticity in the Cerebellar Circuit 2016 , 285-290		
133	Single-Neuron and Network Computation in Realistic Models of the Cerebellar Cortex 2016 , 239-260		2
132	Tactile Stimulation Evokes Long-Lasting Potentiation of Purkinje Cell Discharge In Vivo. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 36	6.1	23
131	Modeling the Cerebellar Microcircuit: New Strategies for a Long-Standing Issue. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 176	6.1	40
130	Distributed Cerebellar Motor Learning: A Spike-Timing-Dependent Plasticity Model. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 17	3.5	26
129	Computational Modeling of Single Neuron Extracellular Electric Potentials and Network Local Field Potentials using LFPsim. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 65	3.5	36
128	Repetitive TMS on Left Cerebellum Affects Impulsivity in Borderline Personality Disorder: A Pilot Study. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 582	3.3	13
127	Exploring Patterns of Alteration in Alzheimer's Disease Brain Networks: A Combined Structural and Functional Connectomics Analysis. <i>Frontiers in Neuroscience</i> , 2016 , 10, 380	5.1	24
126	Granule Cells and Parallel Fibers 2016 , 177-182		
125	A Computational Model of the Cerebellum to Simulate Cortical Degeneration During a Pavlovian Associative Paradigm. <i>IFMBE Proceedings</i> , 2016 , 1069-1074	0.2	1
124	Contralateral cerebello-thalamo-cortical pathways with prominent involvement of associative areas in humans in vivo. <i>Brain Structure and Function</i> , 2015 , 220, 3369-84	4	99
123	Spiking cerebellar model with multiple plasticity sites reproduces eye blinking classical conditioning 2015 ,		5

122	The Human Brain Project: High Performance Computing for Brain Cells Hw/Sw Simulation and Understanding 2015 ,		7
121	High-throughput spatial light modulation two-photon microscopy for fast functional imaging. <i>Neurophotonics</i> , 2015 , 2, 015005	3.9	18
120	Reconstructing fMRI BOLD signals arising from cerebellar granule neurons - comparing GLM and balloon models 2015 ,		1
119	Healthy and pathological cerebellar Spiking Neural Networks in Vestibulo-Ocular Reflex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 2514-7	0.9	3
118	Differential involvement of cortical and cerebellar areas using dominant and nondominant hands: An fMRI study. <i>Human Brain Mapping</i> , 2015 , 36, 5079-100	5.9	24
117	Action potential processing in a detailed Purkinje cell model reveals a critical role for axonal compartmentalization. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 47	6.1	33
116	Stim and Orai proteins in neuronal Ca(2+) signaling and excitability. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 153	6.1	112
115	Distributed cerebellar plasticity implements generalized multiple-scale memory components in real-robot sensorimotor tasks. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 24	3.5	38
114	The effect of desflurane on neuronal communication at a central synapse. <i>PLoS ONE</i> , 2015 , 10, e0123534	3.7	8
113	Long-Term Spatiotemporal Reconfiguration of Neuronal Activity Revealed by Voltage-Sensitive Dye Imaging in the Cerebellar Granular Layer. <i>Neural Plasticity</i> , 2015 , 2015, 284986	3.3	15
112	Integrated plasticity at inhibitory and excitatory synapses in the cerebellar circuit. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 169	6.1	34
111	Exploiting point source approximation on detailed neuronal models to reconstruct single neuron electric field and population LFP 2015 ,		4
110	Distributed cerebellar plasticity implements multiple-scale memory components of Vestibulo-Ocular Reflex in real-robots 2014 ,		4
109	Computationally Efficient Bio-realistic Reconstructions of Cerebellar Neuron Spiking Patterns 2014 ,		3
108	Integration and regulation of glomerular inhibition in the cerebellar granular layer circuit. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 55	6.1	25
107	The spatiotemporal organization of cerebellar network activity resolved by two-photon imaging of multiple single neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 92	6.1	32
106	Computational modeling predicts the ionic mechanism of late-onset responses in unipolar brush cells. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 237	6.1	10
105	Regulation of output spike patterns by phasic inhibition in cerebellar granule cells. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 246	6.1	31

104	Model cerebellar granule cells can faithfully transmit modulated firing rate signals. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 304	6.1	10
103	Synapses as therapeutic targets for autism spectrum disorders: an international symposium held in pavia on july 4th, 2014. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 309	6.1	7
102	Fast convergence of learning requires plasticity between inferior olive and deep cerebellar nuclei in a manipulation task: a closed-loop robotic simulation. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 97	3.5	31
101	A comprehensive assessment of resting state networks: bidirectional modification of functional integrity in cerebro-cerebellar networks in dementia. <i>Frontiers in Neuroscience</i> , 2014 , 8, 223	5.1	47
100	The organization of plasticity in the cerebellar cortex: from synapses to control. <i>Progress in Brain Research</i> , 2014 , 210, 31-58	2.9	73
99	Adaptive robotic control driven by a versatile spiking cerebellar network. <i>PLoS ONE</i> , 2014 , 9, e112265	3.7	48
98	Loss of hnRNP K impairs synaptic plasticity in hippocampal neurons. <i>Journal of Neuroscience</i> , 2014 , 34, 9088-95	6.6	30
97	Cerebellar theta burst stimulation dissociates memory components in eyeblink classical conditioning. <i>European Journal of Neuroscience</i> , 2014 , 40, 3363-70	3.5	35
96	Phosphene induction by cerebellar transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2014 , 125, 2132-3	4.3	11
95	Cerebellar vermis plays a causal role in visual motion discrimination. <i>Cortex</i> , 2014 , 58, 272-80	3.8	37
94	Distributed synaptic plasticity controls spike-timing: predictions from a cerebellar computational model. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	2
93	Ensemble neuronal responses in a large-scale realistic model of the cerebellar cortex. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	2
92	Granule cell ascending axon excitatory synapses onto Golgi cells implement a potent feedback circuit in the cerebellar granular layer. <i>Journal of Neuroscience</i> , 2013 , 33, 12430-46	6.6	45
91	Late-onset bursts evoked by mossy fibre bundle stimulation in unipolar brush cells: evidence for the involvement of H- and TRP-currents. <i>Journal of Physiology</i> , 2013 , 591, 899-918	3.9	14
90	Silencing the majority of cerebellar granule cells uncovers their essential role in motor learning and consolidation. <i>Cell Reports</i> , 2013 , 3, 1239-51	10.6	97
89	Cerebellar Granule Cell 2013 , 765-791		6
88	Gating of long-term potentiation by nicotinic acetylcholine receptors at the cerebellum input stage. <i>PLoS ONE</i> , 2013 , 8, e64828	3.7	40
87	Cerebellar theta burst stimulation modulates short latency afferent inhibition in Alzheimer's disease patients. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 2	5.3	41

86	Anatomical investigation of potential contacts between climbing fibers and cerebellar Golgi cells in the mouse. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 59	3.5	19
85	Frequency resonance at the cerebellum input stage improves spike timing on the millisecond time-scale. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 64	3.5	37
84	The cerebellar Golgi cell and spatiotemporal organization of granular layer activity. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 93	3.5	57
83	Distributed cerebellar plasticity implements adaptable gain control in a manipulation task: a closed-loop robotic simulation. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 159	3.5	52
82	Spike timing regulation on the millisecond scale by distributed synaptic plasticity at the cerebellum input stage: a simulation study. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 64	3.5	35
81	Realistic modeling of neurons and networks: towards brain simulation. <i>Functional Neurology</i> , 2013 , 28, 153-66	2.2	30
80	MRI observation of hippocampal degeneration in Alzheimer's disease: a forgotten case. <i>Functional Neurology</i> , 2013 , 28, 245-6	2.2	1
79	Seeking a unified framework for cerebellar function and dysfunction: from circuit operations to cognition. <i>Frontiers in Neural Circuits</i> , 2012 , 6, 116	3.5	203
78	Modeling spike-train processing in the cerebellum granular layer and changes in plasticity reveal single neuron effects in neural ensembles. <i>Computational Intelligence and Neuroscience</i> , 2012 , 2012, 3593-29	3.29	15
77	NR2A subunit of the N-methyl D-aspartate receptors are required for potentiation at the mossy fiber to granule cell synapse and vestibulo-cerebellar motor learning. <i>Neuroscience</i> , 2011 , 176, 274-83	3.9	35
76	The cerebellar network: revisiting the critical issues. <i>Journal of Physiology</i> , 2011 , 589, 3421-2	3.9	1
75	A modeling based study on the origin and nature of evoked post-synaptic local field potentials in granular layer. <i>Journal of Physiology (Paris)</i> , 2011 , 105, 71-82		9
74	The cerebellar network: from structure to function and dynamics. <i>Brain Research Reviews</i> , 2011 , 66, 5-15		71
73	Burst stimulation of the cerebellum interferes with internal representations of sensory-motor information related to eye movements in humans. <i>Cerebellum</i> , 2011 , 10, 711-9	4.3	14
72	Neural circuits of the cerebellum: hypothesis for function. <i>Journal of Integrative Neuroscience</i> , 2011 , 10, 317-52	1.5	41
71	Local field potential modeling predicts dense activation in cerebellar granule cells clusters under LTP and LTD control. <i>PLoS ONE</i> , 2011 , 6, e21928	3.7	51
70	Realistic Modeling of Large-Scale Networks: Spatio-temporal Dynamics and Long-Term Synaptic Plasticity in the Cerebellum. <i>Lecture Notes in Computer Science</i> , 2011 , 547-553	0.9	
69	Homeostasis of intrinsic excitability: making the point. <i>Journal of Physiology</i> , 2010 , 588, 901-2	3.9	4

68	Discovery and rediscoveries of Golgi cells. <i>Journal of Physiology</i> , 2010 , 588, 3639-55	3.9	41
67	Long-term inactivation particle for voltage-gated sodium channels. <i>Journal of Physiology</i> , 2010 , 588, 3695-711	5.7	54
66	A realistic large-scale model of the cerebellum granular layer predicts circuit spatio-temporal filtering properties. <i>Frontiers in Cellular Neuroscience</i> , 2010 , 4, 12	6.1	107
65	High-Pass Filtering and Dynamic Gain Regulation Enhance Vertical Bursts Transmission along the Mossy Fiber Pathway of Cerebellum. <i>Frontiers in Cellular Neuroscience</i> , 2010 , 4, 14	6.1	42
64	Rebuilding cerebellar network computations from cellular neurophysiology. <i>Frontiers in Cellular Neuroscience</i> , 2010 , 4, 131	6.1	12
63	Behavioral and cerebellar transmission deficits in mice lacking the autism-linked gene islet brain-2. <i>Journal of Neuroscience</i> , 2010 , 30, 14805-16	6.6	49
62	Combinatorial responses controlled by synaptic inhibition in the cerebellum granular layer. <i>Journal of Neurophysiology</i> , 2010 , 103, 250-61	3.2	53
61	How synaptic release probability shapes neuronal transmission: information-theoretic analysis in a cerebellar granule cell. <i>Neural Computation</i> , 2010 , 22, 2031-58	2.9	35
60	Realistic circuit modeling: large-scale simulations of the cerebellar granular layer. <i>BMC Neuroscience</i> , 2010 , 11,	3.2	78
59	Cognitive memory control in borderline personality disorder patients. <i>Psychological Medicine</i> , 2009 , 39, 845-53	6.9	16
58	Differential induction of bidirectional long-term changes in neurotransmitter release by frequency-coded patterns at the cerebellar input. <i>Journal of Physiology</i> , 2009 , 587, 5843-57	3.9	60
57	Timing and plasticity in the cerebellum: focus on the granular layer. <i>Trends in Neurosciences</i> , 2009 , 32, 30-40	13.3	245
56	Timing in the cerebellum: oscillations and resonance in the granular layer. <i>Neuroscience</i> , 2009 , 162, 805-15	3.9	97
55	Axonal Na ⁺ channels ensure fast spike activation and back-propagation in cerebellar granule cells. <i>Journal of Neurophysiology</i> , 2009 , 101, 519-32	3.2	106
54	Tonic activation of GABAB receptors reduces release probability at inhibitory connections in the cerebellar glomerulus. <i>Journal of Neurophysiology</i> , 2009 , 101, 3089-99	3.2	65
53	Tactile stimulation evokes long-term synaptic plasticity in the granular layer of cerebellum. <i>Journal of Neuroscience</i> , 2008 , 28, 6354-9	6.6	79
52	Altered neuron excitability and synaptic plasticity in the cerebellar granular layer of juvenile prion protein knock-out mice with impaired motor control. <i>Journal of Neuroscience</i> , 2008 , 28, 7091-103	6.6	64
51	The critical role of Golgi cells in regulating spatio-temporal integration and plasticity at the cerebellum input stage. <i>Frontiers in Neuroscience</i> , 2008 , 2, 35-46	5.1	59

50	Event-driven simulation of cerebellar granule cells. <i>BioSystems</i> , 2008 , 94, 10-7	1.9	6
49	Electric field enhanced photoluminescence of CdTe quantum dots encapsulated in poly (N-isopropylacrylamide) nano-spheres. <i>Optics Express</i> , 2008 , 16, 14910	3.3	
48	Optical recording of electrical activity in intact neuronal networks with random access second-harmonic generation microscopy. <i>Optics Express</i> , 2008 , 16, 14910-21	3.3	16
47	Computational reconstruction of pacemaking and intrinsic electroresponsiveness in cerebellar Golgi cells. <i>Frontiers in Cellular Neuroscience</i> , 2007 , 1, 2	6.1	75
46	Fast-reset of pacemaking and theta-frequency resonance patterns in cerebellar golgi cells: simulations of their impact in vivo. <i>Frontiers in Cellular Neuroscience</i> , 2007 , 1, 4	6.1	89
45	The spatial organization of long-term synaptic plasticity at the input stage of cerebellum. <i>Journal of Neuroscience</i> , 2007 , 27, 1285-96	6.6	114
44	Fibroblast growth factor homologous factors control neuronal excitability through modulation of voltage-gated sodium channels. <i>Neuron</i> , 2007 , 55, 449-63	13.9	183
43	The synapsin domain E accelerates the exocytotic cycle of synaptic vesicles in cerebellar Purkinje cells. <i>Journal of Cell Science</i> , 2006 , 119, 4257-68	5.3	33
42	Increased ethanol resistance and consumption in Eps8 knockout mice correlates with altered actin dynamics. <i>Cell</i> , 2006 , 127, 213-26	56.2	96
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4	Hyper-excitability and hyper-plasticity disrupt cerebellar signal transfer in the I2KO mouse model of autism		2
3	Complex dynamics in simplified neuronal models: reproducing Golgi cell electroresponsiveness		1
2	Unsuspected involvement of spinal cord in Alzheimer Disease		1
1	Scaffold modelling captures the structure-function-dynamics relationship in brain microcircuits		1