Maria G Leggio

List of Publications by Citations

98 papers	5,078 citations	40 h-index	70 g-index
99 ext. papers	5,901 ext. citations	4.7 avg, IF	5.4 L-index

#	Paper	IF	Citations
98	Environmental enrichment promotes improved spatial abilities and enhanced dendritic growth in the rat. *Behavioural Brain Research*, **2005**, 163, 78-90	3.4	366
97	Consensus paper: the role of the cerebellum in perceptual processes. *Cerebellum*, **2015**, 14, 197-220	4.3	255
96	Consensus paper: Language and the cerebellum: an ongoing enigma. *Cerebellum*, **2014**, 13, 386-410	4.3	254
95	Cerebellum and procedural learning: evidence from focal cerebellar lesions. *Brain*, **1997**, 120 (Pt 10), 1753-62	11.2	248
94	Consensus Paper: Cerebellum and Emotion. *Cerebellum*, **2017**, 16, 552-576	4.3	235
93	The cerebellar cognitive profile. *Brain*, **2011**, 134, 3672-86	11.2	187
92	Phonological grouping is specifically affected in cerebellar patients: a verbal fluency study. *Journal of Neurology, Neurosurgery and Psychiatry*, **2000**, 69, 102-6	5.5	170
91	On whether the environmental enrichment may provide cognitive and brain reserves. *Brain Research Reviews*, **2009**, 61, 221-39		164
90	Auditory thalamocortical pathways defined in monkeys by calcium-binding protein immunoreactivity. *Journal of Comparative Neurology*, **1995**, 362, 171-94	3.4	144
89	Cognitive sequencing impairment in patients with focal or atrophic cerebellar damage. *Brain*, **2008**, 131, 1332-43	11.2	138
88	Cerebellum and detection of sequences, from perception to cognition. *Cerebellum*, **2008**, 7, 611-5	4.3	134
87	The cerebellum in the spatial problem solving: a co-star or a guest star?. *Progress in Neurobiology*, **1998**, 56, 191-210	10.9	124
86	Verbal short-term store-rehearsal system and the cerebellum. Evidence from a patient with a right cerebellar lesion. *Brain*, **1998**, 121 (Pt 11), 2175-87	11.2	120
85	Cerebellar sequencing: a trick for predicting the future. *Cerebellum*, **2015**, 14, 35-8	4.3	105
84	The neuropsychological profile of cerebellar damage: The sequencing hypothesis. *Cortex*, **2011**, 47, 137-48	5.8	105
83	Cerebellar damage impairs detection of somatosensory input changes. A somatosensory mismatch-negativity study. *Brain*, **2007**, 130, 276-87	11.2	104
82	Neurobiology of rhythmic motor entrainment. *Annals of the New York Academy of Sciences*, **2003**, 999, 313-21	6.5	98

81	Neuronal plasticity of interrelated cerebellar and cortical networks. *Neuroscience*, **2002**, 111, 863-70	3.9	84
80	Representation of actions in rats: the role of cerebellum in learning spatial performances by observation. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 2320-5	11.5	83
79	The cerebellum and neural networks for rhythmic sensorimotor synchronization in the human brain. *Cerebellum*, **2007**, 6, 18-23	4.3	81
78	The Cerebellar Cognitive Affective/Schmahmann Syndrome: a Task Force Paper. *Cerebellum*, **2020**, 19, 102-125	4.3	73
77	Consensus Paper: Cerebellum and Social Cognition. *Cerebellum*, **2020**, 19, 833-868	4.3	72
76	Cerebellar contribution to spatial event processing: characterization of procedural learning. *Experimental Brain Research*, **1999**, 127, 1-11	2.3	71
75	Layer and regional effects of environmental enrichment on the pyramidal neuron morphology of the rat. *Neurobiology of Learning and Memory*, **2009**, 91, 353-65	3.1	66
74	Resting-State Functional Connectivity Changes Between Dentate Nucleus and Cortical Social Brain Regions in Autism Spectrum Disorders. *Cerebellum*, **2017**, 16, 283-292	4.3	62
73	Watch how to do it! New advances in learning by observation. *Brain Research Reviews*, **2003**, 42, 252-64		60
72	Cerebellar contribution to spatial event processing: involvement in procedural and working memory components. *European Journal of Neuroscience*, **2001**, 14, 2011-22	3.5	57
71	Nitric oxide synthase immunoreactivity colocalized with NADPH-diaphorase histochemistry in monkey cerebral cortex. *Brain Research*, **1994**, 641, 341-9	3.7	57
70	Spatial dysgraphia and cerebellar lesion: a case report. *Neurology*, **1997**, 48, 1529-32	6.5	52
69	Cerebellar damage impairs executive control and monitoring of movement generation. *PLoS ONE*, **2014**, 9, e85997	3.7	51
68	State estimation, response prediction, and cerebellar sensory processing for behavioral control. *Cerebellum*, **2009**, 8, 399-402	4.3	48
67	Environmental enrichment provides a cognitive reserve to be spent in the case of brain lesion. *Journal of Alzheimer's Disease*, **2008**, 15, 11-28	4.3	46
66	Cerebellar information processing and visuospatial functions. *Cerebellum*, **2007**, 6, 214-20	4.3	46
65	Excitability of the motor cortex to magnetic stimulation in patients with cerebellar lesions. *Journal of Neurology, Neurosurgery and Psychiatry*, **1994**, 57, 108-10	5.5	46
64	Phonological short-term store impairment after cerebellar lesion: a single case study. *Neuropsychologia*, **2008**, 46, 1940-53	3.2	45

63	The Cerebellar Predictions for Social Interactions: Theory of Mind Abilities in Patients With Degenerative Cerebellar Atrophy. *Frontiers in Cellular Neuroscience*, **2018**, 12, 510	6.1	44
62	Verbal fluency and agrammatism. *International Review of Neurobiology*, **1997**, 41, 325-39	4.4	43
61	Cerebro-cerebellar interactions in man: neurophysiological studies in patients with focal cerebellar lesions. *Electroencephalography and Clinical Neurophysiology - Evoked Potentials*, **1994**, 93, 27-34		43
60	Consensus paper: current views on the role of cerebellar interpositus nucleus in movement control and emotion. *Cerebellum*, **2013**, 12, 738-57	4.3	41
59	Sensorimotor transduction of time information is preserved in subjects with cerebellar damage. *Brain Research Bulletin*, **2005**, 67, 448-58	3.9	40
58	Quantification of gray matter changes in the cerebral cortex after isolated cerebellar damage: a voxel-based morphometry study. *Neuroscience*, **2009**, 162, 827-35	3.9	37
57	Cerebellar contribution to spatial event processing: do spatial procedures contribute to formation of spatial declarative knowledge?. *European Journal of Neuroscience*, **2003**, 18, 2618-26	3.5	37
56	The sequencing process generated by the cerebellum crucially contributes to social interactions. *Medical Hypotheses*, **2019**, 128, 33-42	3.8	36
55	Topography of the cerebellum in relation to social brain regions and emotions. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2018**, 154, 71-84	3	34
54	Clusters of non-truncating mutations of P/Q type Ca2+ channel subunit Ca(v)2.1 causing episodic ataxia 2. *Journal of Medical Genetics*, **2004**, 41, e82	5.8	34
53	Chemical compartmentation and relationships between calcium-binding protein immunoreactivity and layer-specific cortical caudate-projecting cells in the anterior intralaminar nuclei of the cat. *European Journal of Neuroscience*, **1994**, 6, 299-312	3.5	31
52	Environmental enrichment mitigates the effects of basal forebrain lesions on cognitive flexibility. *Neuroscience*, **2008**, 154, 444-53	3.9	29
51	Structural cerebellar correlates of cognitive functions in spinocerebellar ataxia type 2. *Journal of Neurology*, **2018**, 265, 597-606	5.5	28
50	Lobular patterns of cerebellar resting-state connectivity in adults with Autism Spectrum Disorder. *European Journal of Neuroscience*, **2018**, 47, 729-735	3.5	28
49	Cerebellar spatial dysgraphia: further evidence. *Journal of Neurology*, **1999**, 246, 312-3	5.5	28
48	Inability to Process Negative Emotions in Cerebellar Damage: a Functional Transcranial Doppler Sonographic Study. *Cerebellum*, **2015**, 14, 663-9	4.3	26
47	The Role of the Cerebellum in Unconscious and Conscious Processing of Emotions: A Review. *Applied Sciences (Switzerland)*, **2017**, 7, 521	2.6	26
46	Expression patterns and deprivation effects on GABAA receptor subunit and GAD mRNAs in monkey lateral geniculate nucleus. *Journal of Comparative Neurology*, **1995**, 352, 235-47	3.4	25

45	Learning power of single behavioral units in acquisition of a complex spatial behavior: An observational learning study in cerebellar-lesioned rats.. *Behavioral Neuroscience*, **2002**, 116, 116-125	2.1	24
44	Depression disorder in patients with cerebellar damage: Awareness of the mood state. *Journal of Affective Disorders*, **2019**, 245, 386-393	6.6	24
43	Neural substrates of motor and cognitive dysfunctions in SCA2 patients: A network based statistics analysis. *NeuroImage: Clinical*, **2017**, 14, 719-725	5.3	23
42	Microstructural MRI Basis of the Cognitive Functions in Patients with Spinocerebellar Ataxia Type 2. *Neuroscience*, **2017**, 366, 44-53	3.9	22
41	Evidence of Cerebellar Involvement in the Onset of a Manic State. *Frontiers in Neurology*, **2018**, 9, 774	4.1	22
40	NMDA receptor activity in learning spatial procedural strategies II. The influence of cerebellar lesions. *Brain Research Bulletin*, **2006**, 70, 356-67	3.9	21
39	Development of a Psychiatric Disorder Linked to Cerebellar Lesions. *Cerebellum*, **2018**, 17, 438-446	4.3	20
38	From cerebellar alterations to mood disorders: A systematic review. *Neuroscience and Biobehavioral Reviews*, **2019**, 103, 21-28	9	19
37	Cerebellar dentate nucleus functional connectivity with cerebral cortex in Alzheimer's disease and memory: a seed-based approach. *Neurobiology of Aging*, **2020**, 89, 32-40	5.6	17
36	Does the cerebellum contribute to human navigation by processing sequential information?. *Neuropsychology*, **2017**, 31, 564-574	3.8	16
35	Interhemispheric Connectivity Characterizes Cortical Reorganization in Motor-Related Networks After Cerebellar Lesions. *Cerebellum*, **2017**, 16, 358-375	4.3	15
34	Impact of cerebellar atrophy on cortical gray matter and cerebellar peduncles as assessed by voxel-based morphometry and high angular resolution diffusion imaging. *Functional Neurology*, **2016**, 31, 239-248	2.2	15
33	The NMDA receptor antagonist CGS 19755 disrupts recovery following cerebellar lesions. *Restorative Neurology and Neuroscience*, **2006**, 24, 1-7	2.8	14
32	Cerebellar damage impairs the self-rating of regret feeling in a gambling task. *Frontiers in Behavioral Neuroscience*, **2015**, 9, 113	3.5	13
31	NMDA receptor activity in learning spatial procedural strategies I. The influence of hippocampal lesions. *Brain Research Bulletin*, **2006**, 70, 347-55	3.9	13
30	Influence of disorders of visual perception in word-to-picture matching tasks in patients with Alzheimer's disease. *Brain and Language*, **1996**, 54, 326-34	2.9	13
29	Is the cerebellum involved in the visuo-locomotor associative learning?. *Behavioural Brain Research*, **2007**, 184, 47-56	3.4	12
28	Atrophic degeneration of cerebellum impairs both the reactive and the proactive control of movement in the stop signal paradigm. *Experimental Brain Research*, **2017**, 235, 2971-2981	2.3	10

27	Functional Changes of Mentalizing Network in SCA2 Patients: Novel Insights into Understanding the Social Cerebellum. *Cerebellum*, **2020**, 19, 235-242	4.3	9
26	The cerebellar topography of attention sub-components in spinocerebellar ataxia type 2. *Cortex*, **2018**, 108, 35-49	3.8	9
25	Oculomotor deficits affect neuropsychological performance in oculomotor apraxia type 2. *Cortex*, **2013**, 49, 691-701	3.8	9
24	A new paradigm to analyze observational learning in rats. *Brain Research Protocols*, **2003**, 12, 83-90		9
23	The neurobiological underpinning of the social cognition impairments in patients with spinocerebellar ataxia type 2. *Cortex*, **2021**, 138, 101-112	3.8	9
22	Bilateral effects of unilateral cerebellar lesions as detected by voxel based morphometry and diffusion imaging. *PLoS ONE*, **2017**, 12, e0180439	3.7	7
21	Cerebellar Sequencing for Cognitive Processing **2013**, 1701-1715		6
20	Cerebello-Cortical Alterations Linked to Cognitive and Social Problems in Patients With Spastic Paraplegia Type 7: A Preliminary Study. *Frontiers in Neurology*, **2020**, 11, 82	4.1	5
19	Comparison of Cerebellar Grey Matter Alterations in Bipolar and Cerebellar Patients: Evidence from Voxel-Based Analysis. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
18	New protocol for dissociating visuospatial working memory ability in reaching space and in navigational space. *Behavior Research Methods*, **2018**, 50, 1602-1613	6.1	4
17	Non-linear spelling in writing after a pure cerebellar lesion. *Neuropsychologia*, **2019**, 132, 107143	3.2	4
16	Monitoring mood states in everyday life: a new device for patients with cerebellar ataxia. *Psychiatry Research*, **2014**, 220, 719-21	9.9	4
15	Cerebellar information flow in the thalamus: implications for cortical functions. *Thalamus & Related Systems*, **2005**, 3, 141		4
14	The cerebellum is linked to theory of mind alterations in autism. A direct clinical and MRI comparison between individuals with autism and cerebellar neurodegenerative pathologies. *Autism Research*, **2021**, 14, 2300-2313	5.1	4
13	Hemicerebellectomy **2013**, 1579-1594		3
12	Expression of mRNAs related to the GABAergic and glutamatergic neurotransmitter systems in the human thalamus: normal and schizophrenic. *Thalamus & Related Systems*, **2002**, 1, 349-369		2
11	Pseudotumor cerebri as presenting syndrome of Addisonian crisis. *Italian Journal of Neurological Sciences*, **1995**, 16, 385-389		2
10	The Cerebellum: A Therapeutic Target in Treating Speech and Language Disorders **2020**, 141-175		2

List of Publications

9	Cerebellum and Verbal Fluency (Phonological and Semantic) **2016**, 63-80		2
8	Aberrant Cerebello-Cerebral Connectivity in Remitted Bipolar Patients 1 and 2: New Insight into Understanding the Cerebellar Role in Mania and Hypomania. *Cerebellum*, **2021**, 1	4.3	2
7	Cerebellum: Cognitive Functions **2015**, 327-331		1
6	The Role of the Posterior Cerebellum in Dysfunctional Social Sequencing. *Cerebellum*, **2021**, 1	4.3	1
5	Does the cerebellar sequential theory explain spoken language impairments? A literature review. *Clinical Linguistics and Phonetics*, **2021**, 35, 296-309	1.4	1
4	Cerebellum: Clinical Pathology **2009**, 737-742		
3	Cerebellar Sequencing for Cognitive Processing **2020**, 1-17		
2	Cerebellar Sequencing for Cognitive Processing **2022**, 1937-1953		
1	Clinical Functional Topography in Cognition **2016**, 391-396		