

Luigi Cattaneo

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

4,948
citations

201674

27
h-index

95266

68
g-index

82
all docs

82
docs citations

82
times ranked

4607
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mirror Neuron System. <i>Archives of Neurology</i> , 2009, 66, 557-60.	4.5	827
2	Cortical Mechanisms Underlying the Organization of Goal-Directed Actions and Mirror Neuron-Based Action Understanding. <i>Physiological Reviews</i> , 2014, 94, 655-706.	28.8	383
3	Impairment of actions chains in autism and its possible role in intention understanding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17825-17830.	7.1	369
4	Processing Abstract Language Modulates Motor System Activity. <i>Quarterly Journal of Experimental Psychology</i> , 2008, 61, 905-919.	1.1	333
5	Mirror neurons and their clinical relevance. <i>Nature Clinical Practice Neurology</i> , 2009, 5, 24-34.	2.5	297
6	Use-induced motor plasticity affects the processing of abstract and concrete language. <i>Current Biology</i> , 2008, 18, R290-R291.	3.9	210
7	State-Dependent TMS Reveals a Hierarchical Representation of Observed Acts in the Temporal, Parietal, and Premotor Cortices. <i>Cerebral Cortex</i> , 2010, 20, 2252-2258.	2.9	176
8	Representation of Goal and Movements without Overt Motor Behavior in the Human Motor Cortex: A Transcranial Magnetic Stimulation Study. <i>Journal of Neuroscience</i> , 2009, 29, 11134-11138.	3.6	168
9	Planning actions in autism. <i>Experimental Brain Research</i> , 2009, 192, 521-525.	1.5	156
10	The facial motor system. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 38, 135-159.	6.1	150
11	Numbers within Our Hands: Modulation of Corticospinal Excitability of Hand Muscles during Numerical Judgment. <i>Journal of Cognitive Neuroscience</i> , 2007, 19, 684-693.	2.3	146
12	Broken affordances, broken objects: A TMS study. <i>Neuropsychologia</i> , 2009, 47, 3074-3078.	1.6	139
13	One's motor performance predictably modulates the understanding of others' actions through adaptation of premotor visuo-motor neurons. <i>Social Cognitive and Affective Neuroscience</i> , 2011, 6, 301-310.	3.0	103
14	Intention Understanding in Autism. <i>PLoS ONE</i> , 2009, 4, e5596.	2.5	99
15	Early and late motor responses to action observation. <i>Social Cognitive and Affective Neuroscience</i> , 2013, 8, 711-719.	3.0	94
16	On the tip of the tongue: Modulation of the primary motor cortex during audiovisual speech perception. <i>Speech Communication</i> , 2010, 52, 533-541.	2.8	85
17	Covert Speech Arrest Induced by rTMS over Both Motor and Nonmotor Left Hemisphere Frontal Sites. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 928-938.	2.3	70
18	Bottom-Up and Top-Down Visuomotor Responses to Action Observation. <i>Cerebral Cortex</i> , 2015, 25, 1032-1041.	2.9	68

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19	Knowing Beans: Human Mirror Mechanisms Revealed Through Motor Adaptation. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 204.	2.0	61
20	Automatic audiovisual integration in speech perception. <i>Experimental Brain Research</i> , 2005, 167, 66-75.	1.5	47
21	Excitability of human motor cortex inputs prior to grasp. <i>Journal of Physiology</i> , 2007, 581, 189-201.	2.9	47
22	Occipital Transcranial Magnetic Stimulation Has an Activity-Dependent Suppressive Effect. <i>Journal of Neuroscience</i> , 2012, 32, 12361-12365.	3.6	44
23	Decoding motor imagery and action planning in the early visual cortex: Overlapping but distinct neural mechanisms. <i>NeuroImage</i> , 2020, 218, 116981.	4.2	39
24	Your Actions in My Cerebellum: Subclinical Deficits in Action Observation in Patients with Unilateral Chronic Cerebellar Stroke. <i>Cerebellum</i> , 2012, 11, 264-271.	2.5	37
25	Articulatory bias in speech categorization: Evidence from use-induced motor plasticity. <i>Cortex</i> , 2011, 47, 1001-1003.	2.4	31
26	State-Dependent TMS Reveals Representation of Affective Body Movements in the Anterior Intraparietal Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 7231-7239.	3.6	31
27	Masseteric repetitive nerve stimulation in the diagnosis of myasthenia gravis. <i>Clinical Neurophysiology</i> , 2001, 112, 1064-1069.	1.5	30
28	Long-term efficacy of Interferon-alpha in chronic inflammatory demyelinating polyneuropathy. <i>Journal of Neurology</i> , 2002, 249, 777-779.	3.6	29
29	Haptic Working Memory for Grasping: the Role of the Parietal Operculum. <i>Cerebral Cortex</i> , 2015, 25, 528-537.	2.9	28
30	Invisible side of emotions: somato-motor responses to affective facial displays in alexithymia. <i>Experimental Brain Research</i> , 2018, 236, 195-206.	1.5	28
31	The role of medial prefrontal cortex in processing emotional self-referential information: a combined TMS/fMRI study. <i>Brain Imaging and Behavior</i> , 2019, 13, 603-614.	2.1	28
32	Tuning of ventral premotor cortex neurons to distinct observed grasp types: a TMS-priming study. <i>Experimental Brain Research</i> , 2010, 207, 165-172.	1.5	27
33	Whole-Brain Haemodynamic After-Effects of 1-Hz Magnetic Stimulation of the Posterior Superior Temporal Cortex During Action Observation. <i>Brain Topography</i> , 2013, 26, 278-291.	1.8	25
34	Probing the Neural Mechanisms for Distractor Filtering and Their History-Contingent Modulation by Means of TMS. <i>Journal of Neuroscience</i> , 2019, 39, 7591-7603.	3.6	25
35	Cortico-cortical connectivity between the superior and inferior parietal lobules and the motor cortex assessed by intraoperative dual cortical stimulation. <i>Brain Stimulation</i> , 2020, 13, 819-831.	1.6	23
36	Trigemino-facial inhibitory reflexes in idiopathic hemifacial spasm. <i>Movement Disorders</i> , 2003, 18, 587-592.	3.9	22

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37	The dorsal premotor cortex exerts a powerful and specific inhibitory effect on the ipsilateral corticofacial system: a dual-coil transcranial magnetic stimulation study. <i>Experimental Brain Research</i> , 2015, 233, 3253-3260.	1.5	22
38	The motor system resonates to the distal goal of observed actions: testing the inverse pliers paradigm in an ecological setting. <i>Experimental Brain Research</i> , 2013, 231, 37-49.	1.5	21
39	Sex-Specific Automatic Responses to Infant Cries: TMS Reveals Greater Excitability in Females than Males in Motor Evoked Potentials. <i>Frontiers in Psychology</i> , 2015, 6, 1909.	2.1	20
40	Central facial palsy revisited: A clinicalâ€œradiological study. <i>Annals of Neurology</i> , 2010, 68, 404-408.	5.3	19
41	Transcranial Magnetic Mapping of the Short-Latency Modulations of Corticospinal Activity from the Ipsilateral Hemisphere during Rest. <i>Frontiers in Neural Circuits</i> , 2011, 5, 14.	2.8	19
42	Role of cutaneous and proprioceptive inputs in sensorimotor integration and plasticity occurring in the facial primary motor cortex. <i>Journal of Physiology</i> , 2020, 598, 839-851.	2.9	19
43	Long-term motor deficit in brain tumour surgery with preserved intra-operative motor-evoked potentials. <i>Brain Communications</i> , 2021, 3, fcaa226.	3.3	18
44	Sural nerve abnormalities in sacral perineural (Tarlov) cysts. <i>Journal of Neurology</i> , 2001, 248, 623-624.	3.6	17
45	Short-latency afferent inhibition predicts verbal memory performance in patients with multiple sclerosis. <i>Journal of Neurology</i> , 2008, 255, 1949-1956.	3.6	17
46	Thematic role assignment in the posterior parietal cortex: A TMS study. <i>Neuropsychologia</i> , 2015, 77, 223-232.	1.6	17
47	Stimulation of the Dorsal Premotor Cortex, But Not of the Supplementary Motor Area Proper, Impairs the Stop Function in a STOP Signal Task. <i>Neuroscience</i> , 2018, 394, 14-22.	2.3	17
48	Visuotactile empathy within the primary somatosensory cortex revealed by short-latency afferent inhibition. <i>Neuroscience Letters</i> , 2010, 473, 28-31.	2.1	16
49	Myocardial infarction following convulsive and nonconvulsive seizures. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2009, 18, 379-381.	2.0	15
50	Spatial and Temporal Characteristics of Set-Related Inhibitory and Excitatory Inputs from the Dorsal Premotor Cortex to the Ipsilateral Motor Cortex Assessed by Dual-Coil Transcranial Magnetic Stimulation. <i>Brain Topography</i> , 2018, 31, 795-810.	1.8	15
51	Bell's palsy-induced blepharospasm relieved by passive eyelid closure and responsive to apomorphine. <i>Clinical Neurophysiology</i> , 2005, 116, 2348-2353.	1.5	14
52	Knowing beans: human mirror mechanisms revealed through motor adaptation. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 206.	2.0	13
53	Motor resonance meets motor performance. <i>Neuropsychologia</i> , 2015, 69, 93-104.	1.6	13
54	The Frames of Reference of the Motor-Visual Aftereffect. <i>PLoS ONE</i> , 2012, 7, e40892.	2.5	13

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55	Spatiotemporal dynamics in understanding hand-object interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15878-15885.	7.1	12
56	Sex Differences in Affective Facial Reactions Are Present in Childhood. Frontiers in Integrative Neuroscience, 2018, 12, 19.	2.1	12
57	Trigemino-facial reflex inhibitory responses in some lower facial muscles. , 2000, 23, 939-945.		11
58	Inhibitory reflexes in human perioral facial muscles: A single-motor unit study. Clinical Neurophysiology, 2007, 118, 794-801.	1.5	11
59	Late onset generalized myasthenia gravis presenting with facial weakness and bulbar signs without extraocular muscle involvement. Neurological Sciences, 2009, 30, 343-344.	1.9	11
60	The right hemisphere is independent from the left hemisphere in allocating visuospatial attention. Neuropsychologia, 2017, 102, 197-205.	1.6	11
61	Somatic and visceral effects of word valence, arousal and concreteness in a continuum lexical space. Scientific Reports, 2019, 9, 20254.	3.3	11
62	Integration in Working Memory: A Magnetic Stimulation Study on the Role of Left Anterior Prefrontal Cortex. PLoS ONE, 2012, 7, e43731.	2.5	10
63	Language. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2013, 116, 681-691.	1.8	9
64	Feasibility of cerebello-cortical stimulation for intraoperative neurophysiological monitoring of cerebellar mutism. Child's Nervous System, 2021, 37, 1505-1514.	1.1	9
65	Stimulation of Different Sectors of the Human Dorsal Premotor Cortex Induces a Shift from Reactive to Predictive Action Strategies and Changes in Motor Inhibition: A Dense Transcranial Magnetic Stimulation (TMS) Mapping Study. Brain Sciences, 2021, 11, 534.	2.3	8
66	Fancies and Fallacies of Spatial Sampling With Transcranial Magnetic Stimulation (TMS). Frontiers in Psychology, 2018, 9, 1171.	2.1	7
67	Modulating the influence of recent trial history on attentional capture via transcranial magnetic stimulation (TMS) of right TPJ. Cortex, 2020, 133, 149-160.	2.4	7
68	Two Distinct Systems Represent Contralateral and Ipsilateral Sensorimotor Processes in the Human Premotor Cortex: A Dense TMS Mapping Study. Cerebral Cortex, 2020, 30, 2250-2266.	2.9	5
69	Action planning modulates the representation of object features in human fronto-parietal and occipital cortex. European Journal of Neuroscience, 2022, 56, 4803-4818.	2.6	5
70	Recording the Trigemino-Facial Inhibitory Reflex: Technique and Normal Findings. Journal of Clinical Neurophysiology, 2010, 27, 126-129.	1.7	4
71	Online repetitive transcranial magnetic stimulation (<sc>TMS</sc>) to the parietal operculum disrupts haptic memory for grasping. Human Brain Mapping, 2015, 36, 4262-4271.	3.6	4
72	The Topography of Visually Guided Grasping in the Premotor Cortex: A Dense-Transcranial Magnetic Stimulation (TMS) Mapping Study. Journal of Neuroscience, 2020, 40, 6790-6800.	3.6	4

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73	Granularity within the mirror system is not informative on action perception. <i>Physics of Life Reviews</i> , 2015, 12, 123-125.	2.8	3
74	The auditory space in the motor system. <i>Neuroscience</i> , 2015, 304, 81-89.	2.3	3
75	Novel Asleep Techniques for Intraoperative Assessment of Brain Connectivity. <i>Frontiers in Neurology</i> , 2021, 12, 687030.	2.4	3
76	Reply to "Intraoperative cortico-cortical evoked potentials for monitoring the arcuate fasciculus: Feasible under general anesthesia?" <i>Clinical Neurophysiology</i> , 2022, 133, 177-178.	1.5	3
77	Transcranial Magnetic Stimulation. <i>NeuroMethods</i> , 2017, , 369-406.	0.3	2
78	How to Test the Association Between Baseline Performance Level and the Modulatory Effects of Non-Invasive Brain Stimulation Techniques. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	2.0	1
79	Gaze direction influences grasping actions towards unseen, haptically explored, objects. <i>Scientific Reports</i> , 2020, 10, 15774.	3.3	0