

Giacomo Rizzolatti

List of Publications by Year in descending order

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148
papers

59,957
citations

7561

77
h-index

9334

143
g-index

151
all docs

151
docs citations

151
times ranked

19249
citing authors

#	ARTICLE	IF	CITATIONS
1	THE MIRROR-NEURON SYSTEM. Annual Review of Neuroscience, 2004, 27, 169-192.	5.0	6,657
2	Action recognition in the premotor cortex. Brain, 1996, 119, 593-609.	3.7	4,538
3	Premotor cortex and the recognition of motor actions. Cognitive Brain Research, 1996, 3, 131-141.	3.3	4,178
4	Neurophysiological mechanisms underlying the understanding and imitation of action. Nature Reviews Neuroscience, 2001, 2, 661-670.	4.9	2,873
5	Cortical Mechanisms of Human Imitation. Science, 1999, 286, 2526-2528.	6.0	2,712
6	Language within our grasp. Trends in Neurosciences, 1998, 21, 188-194.	4.2	2,654
7	Both of Us Disgusted in My Insula. Neuron, 2003, 40, 655-664.	3.8	2,014
8	Parietal Lobe: From Action Organization to Intention Understanding. Science, 2005, 308, 662-667.	6.0	1,768
9	A unifying view of the basis of social cognition. Trends in Cognitive Sciences, 2004, 8, 396-403.	4.0	1,758
10	Reorienting attention across the horizontal and vertical meridians: Evidence in favor of a premotor theory of attention. Neuropsychologia, 1987, 25, 31-40.	0.7	1,636
11	Hearing Sounds, Understanding Actions: Action Representation in Mirror Neurons. Science, 2002, 297, 846-848.	6.0	1,590
12	The functional role of the parieto-frontal mirror circuit: interpretations and misinterpretations. Nature Reviews Neuroscience, 2010, 11, 264-274.	4.9	1,467
13	Grasping the Intentions of Others with One's Own Mirror Neuron System. PLoS Biology, 2005, 3, e79.	2.6	1,452
14	The Cortical Motor System. Neuron, 2001, 31, 889-901.	3.8	1,311
15	Two different streams form the dorsal visual system: anatomy and functions. Experimental Brain Research, 2003, 153, 146-157.	0.7	942
16	Listening to Action-related Sentences Activates Fronto-parietal Motor Circuits. Journal of Cognitive Neuroscience, 2005, 17, 273-281.	1.1	925
17	Localization of grasp representations in humans by positron emission tomography. Experimental Brain Research, 1996, 112, 103-111.	0.7	902
18	Neural Circuits Underlying Imitation Learning of Hand Actions. Neuron, 2004, 42, 323-334.	3.8	838

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19	The Mirror Neuron System. <i>Archives of Neurology</i> , 2009, 66, 557-60.	4.9	827
20	Corticocortical connections of area F3 (SMA-proper) and area F6 (pre-SMA) in the macaque monkey. <i>Journal of Comparative Neurology</i> , 1993, 338, 114-140.	0.9	742
21	Speech listening specifically modulates the excitability of tongue muscles: a TMS study. <i>European Journal of Neuroscience</i> , 2002, 15, 399-402.	1.2	709
22	Premotor Cortex Activation during Observation and Naming of Familiar Tools. <i>NeuroImage</i> , 1997, 6, 231-236.	2.1	678
23	Afferent properties of periarculate neurons in macaque monkeys. II. Visual responses. <i>Behavioural Brain Research</i> , 1981, 2, 147-163.	1.2	665
24	Neural Circuits Involved in the Recognition of Actions Performed by Nonconspecifics: An fMRI Study. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 114-126.	1.1	663
25	Object Representation in the Ventral Premotor Cortex (Area F5) of the Monkey. <i>Journal of Neurophysiology</i> , 1997, 78, 2226-2230.	0.9	646
26	Congruent Embodied Representations for Visually Presented Actions and Linguistic Phrases Describing Actions. <i>Current Biology</i> , 2006, 16, 1818-1823.	1.8	630
27	Mirror neurons responding to the observation of ingestive and communicative mouth actions in the monkey ventral premotor cortex. <i>European Journal of Neuroscience</i> , 2003, 17, 1703-1714.	1.2	583
28	Afferent and efferent projections of the inferior area 6 in the macaque monkey. <i>Journal of Comparative Neurology</i> , 1986, 251, 281-298.	0.9	562
29	Motor and cognitive functions of the ventral premotor cortex. <i>Current Opinion in Neurobiology</i> , 2002, 12, 149-154.	2.0	551
30	Patterns of cytochrome oxidase activity in the frontal agranular cortex of the macaque monkey. <i>Behavioural Brain Research</i> , 1985, 18, 125-136.	1.2	508
31	Parietal cortex: from sight to action. <i>Current Opinion in Neurobiology</i> , 1997, 7, 562-567.	2.0	484
32	The mirror neuron system and its function in humans. <i>Anatomy and Embryology</i> , 2005, 210, 419-421.	1.5	391
33	Cortical Mechanisms Underlying the Organization of Goal-Directed Actions and Mirror Neuron-Based Action Understanding. <i>Physiological Reviews</i> , 2014, 94, 655-706.	13.1	383
34	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.	3.3	369
35	Afferent properties of periarculate neurons in macaque monkeys. I. Somatosensory responses. <i>Behavioural Brain Research</i> , 1981, 2, 125-146.	1.2	356
36	Observing Others: Multiple Action Representation in the Frontal Lobe. <i>Science</i> , 2005, 310, 332-336.	6.0	342

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37	Visuomotor neurons: ambiguity of the discharge or "motor" perception?. <i>International Journal of Psychophysiology</i> , 2000, 35, 165-177.	0.5	337
38	The mirror mechanism: a basic principle of brain function. <i>Nature Reviews Neuroscience</i> , 2016, 17, 757-765.	4.9	337
39	Mirror Neurons and Mirror Systems in Monkeys and Humans. <i>Physiology</i> , 2008, 23, 171-179.	1.6	309
40	Mirror Neurons Differentially Encode the Peripersonal and Extrapersonal Space of Monkeys. <i>Science</i> , 2009, 324, 403-406.	6.0	306
41	Functional organization of inferior parietal lobule convexity in the macaque monkey: electrophysiological characterization of motor, sensory and mirror responses and their correlation with cytoarchitectonic areas. <i>European Journal of Neuroscience</i> , 2008, 28, 1569-1588.	1.2	304
42	Visual Processing without Awareness: Evidence from Unilateral Neglect. <i>Journal of Cognitive Neuroscience</i> , 1992, 4, 345-351.	1.1	302
43	Prefrontal involvement in imitation learning of hand actions: Effects of practice and expertise. <i>NeuroImage</i> , 2007, 37, 1371-1383.	2.1	301
44	Mirror neurons and their clinical relevance. <i>Nature Clinical Practice Neurology</i> , 2009, 5, 24-34.	2.7	297
45	The mirror system and its role in social cognition. <i>Current Opinion in Neurobiology</i> , 2008, 18, 179-184.	2.0	282
46	Hand action preparation influences the responses to hand pictures. <i>Neuropsychologia</i> , 2002, 40, 492-502.	0.7	264
47	Emotional and Social Behaviors Elicited by Electrical Stimulation of the Insula in the Macaque Monkey. <i>Current Biology</i> , 2011, 21, 195-199.	1.8	234
48	Action Observation Circuits in the Macaque Monkey Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 3743-3756.	1.7	230
49	Mirror neurons: from discovery to autism. <i>Experimental Brain Research</i> , 2010, 200, 223-237.	0.7	222
50	The mirror mechanism: recent findings and perspectives. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130420.	1.8	221
51	Thalamic input to inferior area 6 and area 4 in the macaque monkey. <i>Journal of Comparative Neurology</i> , 1989, 280, 468-488.	0.9	219
52	The Golden Beauty: Brain Response to Classical and Renaissance Sculptures. <i>PLoS ONE</i> , 2007, 2, e1201.	1.1	208
53	View-Based Encoding of Actions in Mirror Neurons of Area F5 in Macaque Premotor Cortex. <i>Current Biology</i> , 2011, 21, 144-148.	1.8	205
54	Coding Observed Motor Acts: Different Organizational Principles in the Parietal and Premotor Cortex of Humans. <i>Journal of Neurophysiology</i> , 2010, 104, 128-140.	0.9	191

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55	Aplasics Born without Hands Mirror the Goal of Hand Actions with Their Feet. <i>Current Biology</i> , 2007, 17, 1235-1240.	1.8	182
56	Motor and emotional behaviours elicited by electrical stimulation of the human cingulate cortex. <i>Brain</i> , 2018, 141, 3035-3051.	3.7	176
57	The Dynamics of Sensorimotor Cortical Oscillations during the Observation of Hand Movements: An EEG Study. <i>PLoS ONE</i> , 2012, 7, e37534.	1.1	172
58	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.	1.7	168
59	Movements of attention in the three spatial dimensions and the meaning of "neutral" cues. <i>Neuropsychologia</i> , 1987, 25, 19-29.	0.7	166
60	Planning actions in autism. <i>Experimental Brain Research</i> , 2009, 192, 521-525.	0.7	156
61	Numbers within Our Hands: Modulation of Corticospinal Excitability of Hand Muscles during Numerical Judgment. <i>Journal of Cognitive Neuroscience</i> , 2007, 19, 684-693.	1.1	146
62	Evidence for visuomotor priming effect. <i>NeuroReport</i> , 1996, 8, 347-349.	0.6	144
63	Responses of mirror neurons in area F5 to hand and tool grasping observation. <i>Experimental Brain Research</i> , 2010, 204, 605-616.	0.7	137
64	Functional organization of the insula and inner perisylvian regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10077-10082.	3.3	118
65	Visual receptive fields in the lateral suprasylvian area (Clare-Bishop area) of the cat. <i>Brain Research</i> , 1976, 101, 427-443.	1.1	115
66	Neural substrates for observing and imagining non-object-directed actions. <i>Social Neuroscience</i> , 2008, 3, 261-275.	0.7	114
67	Mirror neurons encode the subjective value of an observed action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11848-11853.	3.3	114
68	Space-Dependent Representation of Objects and Other's Action in Monkey Ventral Premotor Grasping Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 4108-4119.	1.7	100
69	Corticospinal projections from mesial frontal and cingulate areas in the monkey. <i>NeuroReport</i> , 1994, 5, 2545-2548.	0.6	99
70	Intention Understanding in Autism. <i>PLoS ONE</i> , 2009, 4, e5596.	1.1	99
71	Brain Response to a Humanoid Robot in Areas Implicated in the Perception of Human Emotional Gestures. <i>PLoS ONE</i> , 2010, 5, e11577.	1.1	98
72	Mirth and laughter elicited by electrical stimulation of the human anterior cingulate cortex. <i>Cortex</i> , 2015, 71, 323-331.	1.1	96

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73	Functional properties of the left parietal tool use region. <i>NeuroImage</i> , 2013, 78, 83-93.	2.1	95
74	Neurons responding to visual stimuli in the frontal lobe of macaque monkeys. <i>Neuroscience Letters</i> , 1979, 12, 207-212.	1.0	94
75	Understanding Actions of Others: The Electrodynamics of the Left and Right Hemispheres. A High-Density EEG Neuroimaging Study. <i>PLoS ONE</i> , 2010, 5, e12160.	1.1	94
76	Parcellation of human mesial area 6: cytoarchitectonic evidence for three separate areas. <i>European Journal of Neuroscience</i> , 1998, 10, 2199-2203.	1.2	89
77	Four-dimensional maps of the human somatosensory system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1936-43.	3.3	87
78	Activation of precentral and mesial motor areas during the execution of elementary proximal and distal arm movements. <i>NeuroReport</i> , 1993, 4, 1295-1298.	0.6	79
79	Mirror Neuron Activation Prior to Action Observation in a Predictable Context. <i>Journal of Neuroscience</i> , 2014, 34, 14827-14832.	1.7	75
80	Mirror neurons and motor intentionality. <i>Functional Neurology</i> , 2007, 22, 205-10.	1.3	74
81	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.	1.1	70
82	Mirror neuron: a neurological approach to empathy. <i>Research and Perspectives in Neurosciences</i> , 2005, , 107-123.	0.4	64
83	The neural basis for understanding non-intended actions. <i>NeuroImage</i> , 2007, 36, T119-T127.	2.1	63
84	Expressing our internal states and understanding those of others. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10331-10335.	3.3	63
85	Neural and Computational Mechanisms of Action Processing: Interaction between Visual and Motor Representations. <i>Neuron</i> , 2015, 88, 167-180.	3.8	62
86	Impaired vitality form recognition in autism. <i>Neuropsychologia</i> , 2013, 51, 1918-1924.	0.7	61
87	Ventral Premotor Neurons Encoding Representations of Action during Self and Others' Inaction. <i>Current Biology</i> , 2014, 24, 1611-1614.	1.8	59
88	Brain function overlaps when people observe emblems, speech, and grasping. <i>Neuropsychologia</i> , 2013, 51, 1619-1629.	0.7	57
89	Through the looking glass: Self and others. <i>Consciousness and Cognition</i> , 2011, 20, 64-74.	0.8	56
90	Perspective-dependent reactivity of sensorimotor mu rhythm in alpha and beta ranges during action observation: an EEG study. <i>Scientific Reports</i> , 2018, 8, 12429.	1.6	55

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91	Differential hemispheric asymmetries in depression and anxiety: A reaction-time study. <i>Biological Psychiatry</i> , 1991, 29, 887-899.	0.7	54
92	The neural correlates of "vitality form"™ recognition: an fMRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 951-960.	1.5	52
93	The extended object-grasping network. <i>Experimental Brain Research</i> , 2017, 235, 2903-2916.	0.7	48
94	Evidence of interhemispheric transmission in laterality effects. <i>Neuropsychologia</i> , 1985, 23, 203-213.	0.7	47
95	The organization of the posterior parietal cortex devoted to upper limb actions: An fMRI study. <i>Human Brain Mapping</i> , 2015, 36, 3845-3866.	1.9	46
96	Specificity of Esthetic Experience for Artworks: An fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 139.	1.0	42
97	From grasping to speech: imitation might provide a missing link: Reply. <i>Trends in Neurosciences</i> , 1999, 22, 152.	4.2	41
98	The role of mirror mechanism in the recovery, maintenance, and acquisition of motor abilities. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 127, 404-423.	2.9	40
99	Upper visual space neglect and motor deficits after section of the midbrain commissures in the cat. <i>Behavioural Brain Research</i> , 1983, 10, 263-285.	1.2	39
100	Agent-based representations of objects and actions in the monkey pre-supplementary motor area. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2691-2700.	3.3	37
101	The neural correlates of velocity processing during the observation of a biological effector in the parietal and premotor cortex. <i>NeuroImage</i> , 2013, 64, 425-436.	2.1	36
102	Extending the Cortical Grasping Network: Pre-supplementary Motor Neuron Activity During Vision and Grasping of Objects. <i>Cerebral Cortex</i> , 2016, 26, 4435-4449.	1.6	36
103	Inhibition of visual responses of single units in the cat superior colliculus by the introduction of a second visual stimulus. <i>Brain Research</i> , 1973, 61, 390-394.	1.1	33
104	Understanding Others' Regret: A fMRI Study. <i>PLoS ONE</i> , 2009, 4, e7402.	1.1	33
105	Failure in Pantomime Action Execution Correlates with the Severity of Social Behavior Deficits in Children with Autism: A Praxis Study. <i>Journal of Autism and Developmental Disorders</i> , 2015, 45, 3085-3097.	1.7	33
106	Somatotopic Representation in Inferior Area 6 of the Macaque Monkey. <i>Brain, Behavior and Evolution</i> , 1989, 33, 118-121.	0.9	32
107	A mirror mechanism for smiling in the anterior cingulate cortex.. <i>Emotion</i> , 2017, 17, 187-190.	1.5	30
108	Pathways for smiling, disgust and fear recognition in blindsight patients. <i>Neuropsychologia</i> , 2019, 128, 6-13.	0.7	28

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109	Mirroring other's laughter. Cingulate, opercular and temporal contributions to laughter expression and observation. <i>Cortex</i> , 2020, 128, 35-48.	1.1	26
110	What and Why Understanding in Autism Spectrum Disorders and Williams Syndrome: Similarities and Differences. <i>Autism Research</i> , 2014, 7, 421-432.	2.1	25
111	Vitality Forms Processing in the Insula during Action Observation: A Multivoxel Pattern Analysis. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 267.	1.0	24
112	The inferior parietal lobule: where action becomes perception. <i>Novartis Foundation Symposium</i> , 2006, 270, 129-40; discussion 140-5, 164-9.	1.2	24
113	The fronto-parietal cortex of the prosimian Galago: Patterns of cytochrome oxidase activity and motor maps. <i>Behavioural Brain Research</i> , 1994, 60, 91-113.	1.2	23
114	Motor systems. <i>Current Opinion in Neurobiology</i> , 2005, 15, 623-625.	2.0	22
115	Right hemisphere superiority for programming oculomotion: Evidence from simple reaction time experiments. <i>Neuropsychologia</i> , 1988, 26, 201-211.	0.7	21
116	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.	0.7	21
117	Understanding motor acts and motor intentions in Williams syndrome. <i>Neuropsychologia</i> , 2012, 50, 1639-1649.	0.7	19
118	Efficacy of a home-based platform for child-to-child interaction on hand motor function in unilateral cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2019, 61, 1314-1322.	1.1	19
119	Electroencephalographic time-frequency patterns of braking and acceleration movement preparation in car driving simulation. <i>Brain Research</i> , 2019, 1716, 16-26.	1.1	18
120	Linking psychoanalysis with neuroscience: The concept of ego. <i>Neuropsychologia</i> , 2014, 55, 143-148.	0.7	17
121	Cognitive abilities in siblings of children with autism spectrum disorders. <i>Experimental Brain Research</i> , 2014, 232, 2381-2390.	0.7	17
122	The mirror mechanism in the parietal lobe. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 151, 555-573.	1.0	17
123	The neural bases of vitality forms. <i>National Science Review</i> , 2020, 7, 202-213.	4.6	17
124	Francesco Gennari and the structure of the cerebral cortex. <i>Trends in Neurosciences</i> , 1984, 7, 464-467.	4.2	16
125	Ipsilateral somatosensory responses in humans: the tonic activity of SII and posterior insular cortex. <i>Brain Structure and Function</i> , 2019, 224, 9-18.	1.2	15
126	Programming shifts of spatial attention. <i>European Journal of Cognitive Psychology</i> , 1994, 6, 23-41.	1.3	14

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127	Language and mirror neurons. , 2007, , 770-786.		14
128	An area specifically devoted to tool use in human left inferior parietal lobule. Behavioral and Brain Sciences, 2012, 35, 234-234.	0.4	13
129	Understanding Actions and the Intentions of Others: The Basic Neural Mechanism. European Review, 2007, 15, 209-222.	0.4	12
130	Spatiotemporal dynamics in understanding handâ€™ object interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15878-15885.	3.3	12
131	Neurotypical individuals fail to understand action vitality form in children with autism spectrum disorder. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27712-27718.	3.3	12
132	Action execution and action observation elicit mirror responses with the same temporal profile in human SII. Communications Biology, 2020, 3, 80.	2.0	12
133	System neuroscience: Past, present, and future. CNS Neuroscience and Therapeutics, 2018, 24, 685-693.	1.9	12
134	Observation of othersâ€™ actions during limb immobilization prevents the subsequent decay of motor performance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
135	The middle cingulate cortex and dorso-central insula: A mirror circuit encoding observation and execution of vitality forms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
136	The Proactive Synergy Between Action Observation and Execution in the Acquisition of New Motor Skills. Frontiers in Human Neuroscience, 2022, 16, 793849.	1.0	9
137	Tonic somatosensory responses and deficits of tactile awareness converge in the parietal operculum. Brain, 2021, 144, 3779-3787.	3.7	8
138	A developmental study on childrenâ€™s capacity to ascribe goals and intentions to others.. Developmental Psychology, 2014, 50, 504-513.	1.2	7
139	Confounding the origin and function of mirror neurons. Behavioral and Brain Sciences, 2014, 37, 218-219.	0.4	6
140	Catching the imposter in the brain: The case of Capgras delusion. Cortex, 2020, 131, 295-304.	1.1	6
141	Is neglect a theoretically coherent unit?. Neuropsychological Rehabilitation, 1994, 4, 111-114.	1.0	4
142	Free will and motor subroutines: Too much for a small area. Behavioral and Brain Sciences, 1985, 8, 597-597.	0.4	3
143	The Mirror Mechanism as Neurophysiological Basis for Action and Intention Understanding. , 2013, , 117-134.		3
144	Imitation: mechanisms and importance for human culture. Rendiconti Lincei, 2014, 25, 285-289.	1.0	2

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145	Motor Cortex and Mirror System in Monkeys and Humans. , 2016, , 59-72.		2
146	Giacomo Rizzolatti. Current Biology, 2010, 20, R1058-R1060.	1.8	1
147	Premotor Cortex. , 2015, , 846-851.		1
148	The Posterior Parietal Cortex. , 2020, , 333-348.		0