

Giacomo Rizzolatti

List of Publications by Year in descending order

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148
papers

59,957
citations

8755

77
h-index

10679

143
g-index

151
all docs

151
docs citations

151
times ranked

21886
citing authors

#	ARTICLE	IF	CITATIONS
1	The Proactive Synergy Between Action Observation and Execution in the Acquisition of New Motor Skills. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 793849.	1.0	9
2	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
3	Tonic somatosensory responses and deficits of tactile awareness converge in the parietal operculum. <i>Brain</i> , 2021, 144, 3779-3787.	3.7	8
4	The middle cingulate cortex and dorso-central insula: A mirror circuit encoding observation and execution of vitality forms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
5	Observation of others' actions during limb immobilization prevents the subsequent decay of motor performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
6	Neurotypical individuals fail to understand action vitality form in children with autism spectrum disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27712-27718.	3.3	12
7	Action execution and action observation elicit mirror responses with the same temporal profile in human SII. <i>Communications Biology</i> , 2020, 3, 80.	2.0	12
8	Mirroring other's laughter. Cingulate, opercular and temporal contributions to laughter expression and observation. <i>Cortex</i> , 2020, 128, 35-48.	1.1	26
9	The neural bases of vitality forms. <i>National Science Review</i> , 2020, 7, 202-213.	4.6	17
10	The Posterior Parietal Cortex. , 2020, , 333-348.		0
11	Catching the imposter in the brain: The case of Capgras delusion. <i>Cortex</i> , 2020, 131, 295-304.	1.1	6
12	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
13	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
14	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
15	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
16	Pathways for smiling, disgust and fear recognition in blindsight patients. <i>Neuropsychologia</i> , 2019, 128, 6-13.	0.7	28
17	Motor and emotional behaviours elicited by electrical stimulation of the human cingulate cortex. <i>Brain</i> , 2018, 141, 3035-3051.	3.7	176
18	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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19	The mirror mechanism in the parietal lobe. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 151, 555-573.	1.0	17
20	System neuroscience: Past, present, and future. CNS Neuroscience and Therapeutics, 2018, 24, 685-693.	1.9	12
21	The extended object-grasping network. Experimental Brain Research, 2017, 235, 2903-2916.	0.7	48
22	A mirror mechanism for smiling in the anterior cingulate cortex.. Emotion, 2017, 17, 187-190.	1.5	30
23	Motor Cortex and Mirror System in Monkeys and Humans. , 2016, , 59-72.		2
24	Vitality Forms Processing in the Insula during Action Observation: A Multivoxel Pattern Analysis. Frontiers in Human Neuroscience, 2016, 10, 267.	1.0	24
25	Extending the Cortical Grasping Network: Pre-supplementary Motor Neuron Activity During Vision and Grasping of Objects. Cerebral Cortex, 2016, 26, 4435-4449.	1.6	36
26	The mirror mechanism: a basic principle of brain function. Nature Reviews Neuroscience, 2016, 17, 757-765.	4.9	337
27	Four-dimensional maps of the human somatosensory system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1936-43.	3.3	87
28	The organization of the posterior parietal cortex devoted to upper limb actions: An fMRI study. Human Brain Mapping, 2015, 36, 3845-3866.	1.9	46
29	Premotor Cortex. , 2015, , 846-851.		1
30	Failure in Pantomime Action Execution Correlates with the Severity of Social Behavior Deficits in Children with Autism: A Praxis Study. Journal of Autism and Developmental Disorders, 2015, 45, 3085-3097.	1.7	33
31	Expressing our internal states and understanding those of others. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10331-10335.	3.3	63
32	Mirth and laughter elicited by electrical stimulation of the human anterior cingulate cortex. Cortex, 2015, 71, 323-331.	1.1	96
33	Neural and Computational Mechanisms of Action Processing: Interaction between Visual and Motor Representations. Neuron, 2015, 88, 167-180.	3.8	62
34	Space-Dependent Representation of Objects and Other's Action in Monkey Ventral Premotor Grasping Neurons. Journal of Neuroscience, 2014, 34, 4108-4119.	1.7	100
35	The neural correlates of "vitality form"™ recognition: an fMRI study. Social Cognitive and Affective Neuroscience, 2014, 9, 951-960.	1.5	52
36	What and Why Understanding in Autism Spectrum Disorders and Williams Syndrome: Similarities and Differences. Autism Research, 2014, 7, 421-432.	2.1	25

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37	Confounding the origin and function of mirror neurons. Behavioral and Brain Sciences, 2014, 37, 218-219.	0.4	6
38	The mirror mechanism: recent findings and perspectives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130420.	1.8	221
39	Linking psychoanalysis with neuroscience: The concept of ego. Neuropsychologia, 2014, 55, 143-148.	0.7	17
40	Mirror Neuron Activation Prior to Action Observation in a Predictable Context. Journal of Neuroscience, 2014, 34, 14827-14832.	1.7	75
41	Ventral Premotor Neurons Encoding Representations of Action during Self and Others' Inaction. Current Biology, 2014, 24, 1611-1614.	1.8	59
42	Imitation: mechanisms and importance for human culture. Rendiconti Lincei, 2014, 25, 285-289.	1.0	2
43	Cognitive abilities in siblings of children with autism spectrum disorders. Experimental Brain Research, 2014, 232, 2381-2390.	0.7	17
44	Cortical Mechanisms Underlying the Organization of Goal-Directed Actions and Mirror Neuron-Based Action Understanding. Physiological Reviews, 2014, 94, 655-706.	13.1	383
45	A developmental study on children's capacity to ascribe goals and intentions to others.. Developmental Psychology, 2014, 50, 504-513.	1.2	7
46	The Mirror Mechanism as Neurophysiological Basis for Action and Intention Understanding. , 2013, , 117-134.		3
47	Impaired vitality form recognition in autism. Neuropsychologia, 2013, 51, 1918-1924.	0.7	61
48	Brain function overlaps when people observe emblems, speech, and grasping. Neuropsychologia, 2013, 51, 1619-1629.	0.7	57
49	Functional properties of the left parietal tool use region. NeuroImage, 2013, 78, 83-93.	2.1	95
50	The neural correlates of velocity processing during the observation of a biological effector in the parietal and premotor cortex. NeuroImage, 2013, 64, 425-436.	2.1	36
51	The motor system resonates to the distal goal of observed actions: testing the inverse pliers paradigm in an ecological setting. Experimental Brain Research, 2013, 231, 37-49.	0.7	21
52	Spatiotemporal dynamics in understanding hand-object interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15878-15885.	3.3	12
53	An area specifically devoted to tool use in human left inferior parietal lobule. Behavioral and Brain Sciences, 2012, 35, 234-234.	0.4	13
54	Mirror neurons encode the subjective value of an observed action. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11848-11853.	3.3	114

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55	Functional organization of the insula and inner perisylvian regions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10077-10082.	3.3	118
56	Understanding motor acts and motor intentions in Williams syndrome. Neuropsychologia, 2012, 50, 1639-1649.	0.7	19
57	The Dynamics of Sensorimotor Cortical Oscillations during the Observation of Hand Movements: An EEG Study. PLoS ONE, 2012, 7, e37534.	1.1	172
58	Specificity of Esthetic Experience for Artworks: An fMRI Study. Frontiers in Human Neuroscience, 2011, 5, 139.	1.0	42
59	View-Based Encoding of Actions in Mirror Neurons of Area F5 in Macaque Premotor Cortex. Current Biology, 2011, 21, 144-148.	1.8	205
60	Emotional and Social Behaviors Elicited by Electrical Stimulation of the Insula in the Macaque Monkey. Current Biology, 2011, 21, 195-199.	1.8	234
61	Through the looking glass: Self and others. Consciousness and Cognition, 2011, 20, 64-74.	0.8	56
62	Action Observation Circuits in the Macaque Monkey Cortex. Journal of Neuroscience, 2011, 31, 3743-3756.	1.7	230
63	Mirror neurons: from discovery to autism. Experimental Brain Research, 2010, 200, 223-237.	0.7	222
64	Responses of mirror neurons in area F5 to hand and tool grasping observation. Experimental Brain Research, 2010, 204, 605-616.	0.7	137
65	Giacomo Rizzolatti. Current Biology, 2010, 20, R1058-R1060.	1.8	1
66	The functional role of the parieto-frontal mirror circuit: interpretations and misinterpretations. Nature Reviews Neuroscience, 2010, 11, 264-274.	4.9	1,467
67	Brain Response to a Humanoid Robot in Areas Implicated in the Perception of Human Emotional Gestures. PLoS ONE, 2010, 5, e11577.	1.1	98
68	Coding Observed Motor Acts: Different Organizational Principles in the Parietal and Premotor Cortex of Humans. Journal of Neurophysiology, 2010, 104, 128-140.	0.9	191
69	Understanding Actions of Others: The Electrodynamics of the Left and Right Hemispheres. A High-Density EEG Neuroimaging Study. PLoS ONE, 2010, 5, e12160.	1.1	94
70	Understanding Others' Regret: A fMRI Study. PLoS ONE, 2009, 4, e7402.	1.1	33
71	Representation of Goal and Movements without Overt Motor Behavior in the Human Motor Cortex: A Transcranial Magnetic Stimulation Study. Journal of Neuroscience, 2009, 29, 11134-11138.	1.7	168
72	The Mirror Neuron System. Archives of Neurology, 2009, 66, 557-60.	4.9	827

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73	Planning actions in autism. <i>Experimental Brain Research</i> , 2009, 192, 521-525.	0.7	156
74	Mirror Neurons Differentially Encode the Peripersonal and Extrapersonal Space of Monkeys. <i>Science</i> , 2009, 324, 403-406.	6.0	306
75	Mirror neurons and their clinical relevance. <i>Nature Clinical Practice Neurology</i> , 2009, 5, 24-34.	2.7	297
76	Intention Understanding in Autism. <i>PLoS ONE</i> , 2009, 4, e5596.	1.1	99
77	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
78	The mirror system and its role in social cognition. <i>Current Opinion in Neurobiology</i> , 2008, 18, 179-184.	2.0	282
79	Neural substrates for observing and imagining non-object-directed actions. <i>Social Neuroscience</i> , 2008, 3, 261-275.	0.7	114
80	Mirror Neurons and Mirror Systems in Monkeys and Humans. <i>Physiology</i> , 2008, 23, 171-179.	1.6	309
81	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
82	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
83	Understanding Actions and the Intentions of Others: The Basic Neural Mechanism. <i>European Review</i> , 2007, 15, 209-222.	0.4	12
84	The neural basis for understanding non-intended actions. <i>NeuroImage</i> , 2007, 36, T119-T127.	2.1	63
85	Prefrontal involvement in imitation learning of hand actions: Effects of practice and expertise. <i>NeuroImage</i> , 2007, 37, 1371-1383.	2.1	301
86	The Golden Beauty: Brain Response to Classical and Renaissance Sculptures. <i>PLoS ONE</i> , 2007, 2, e1201.	1.1	208
87	Language and mirror neurons. , 2007, , 770-786.		14
88	Aplasics Born without Hands Mirror the Goal of Hand Actions with Their Feet. <i>Current Biology</i> , 2007, 17, 1235-1240.	1.8	182
89	Mirror neurons and motor intentionality. <i>Functional Neurology</i> , 2007, 22, 205-10.	1.3	74
90	Congruent Embodied Representations for Visually Presented Actions and Linguistic Phrases Describing Actions. <i>Current Biology</i> , 2006, 16, 1818-1823.	1.8	630

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91	The inferior parietal lobule: where action becomes perception. Novartis Foundation Symposium, 2006, 270, 129-40; discussion 140-5, 164-9.	1.2	24
92	Parietal Lobe: From Action Organization to Intention Understanding. Science, 2005, 308, 662-667.	6.0	1,768
93	Motor systems. Current Opinion in Neurobiology, 2005, 15, 623-625.	2.0	22
94	The mirror neuron system and its function in humans. Anatomy and Embryology, 2005, 210, 419-421.	1.5	391
95	Covert Speech Arrest Induced by rTMS over Both Motor and Nonmotor Left Hemisphere Frontal Sites. Journal of Cognitive Neuroscience, 2005, 17, 928-938.	1.1	70
96	Observing Others: Multiple Action Representation in the Frontal Lobe. Science, 2005, 310, 332-336.	6.0	342
97	Listening to Action-related Sentences Activates Fronto-parietal Motor Circuits. Journal of Cognitive Neuroscience, 2005, 17, 273-281.	1.1	925
98	Mirror neuron: a neurological approach to empathy. Research and Perspectives in Neurosciences, 2005, , 107-123.	0.4	64
99	Grasping the Intentions of Others with One's Own Mirror Neuron System. PLoS Biology, 2005, 3, e79.	2.6	1,452
100	Neural Circuits Involved in the Recognition of Actions Performed by Nonconspecifics: An fMRI Study. Journal of Cognitive Neuroscience, 2004, 16, 114-126.	1.1	663
101	THE MIRROR-NEURON SYSTEM. Annual Review of Neuroscience, 2004, 27, 169-192.	5.0	6,657
102	A unifying view of the basis of social cognition. Trends in Cognitive Sciences, 2004, 8, 396-403.	4.0	1,758
103	Neural Circuits Underlying Imitation Learning of Hand Actions. Neuron, 2004, 42, 323-334.	3.8	838
104	Two different streams form the dorsal visual system: anatomy and functions. Experimental Brain Research, 2003, 153, 146-157.	0.7	942
105	Mirror neurons responding to the observation of ingestive and communicative mouth actions in the monkey ventral premotor cortex. European Journal of Neuroscience, 2003, 17, 1703-1714.	1.2	583
106	Both of Us Disgusted in My Insula. Neuron, 2003, 40, 655-664.	3.8	2,014
107	Hand action preparation influences the responses to hand pictures. Neuropsychologia, 2002, 40, 492-502.	0.7	264
108	Motor and cognitive functions of the ventral premotor cortex. Current Opinion in Neurobiology, 2002, 12, 149-154.	2.0	551

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109	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
110	Hearing Sounds, Understanding Actions: Action Representation in Mirror Neurons. <i>Science</i> , 2002, 297, 846-848.	6.0	1,590
111	The Cortical Motor System. <i>Neuron</i> , 2001, 31, 889-901.	3.8	1,311
112	Neurophysiological mechanisms underlying the understanding and imitation of action. <i>Nature Reviews Neuroscience</i> , 2001, 2, 661-670.	4.9	2,873
113	Visuomotor neurons: ambiguity of the discharge or "motor" perception?. <i>International Journal of Psychophysiology</i> , 2000, 35, 165-177.	0.5	337
114	From grasping to speech: imitation might provide a missing link: Reply. <i>Trends in Neurosciences</i> , 1999, 22, 152.	4.2	41
115	Cortical Mechanisms of Human Imitation. <i>Science</i> , 1999, 286, 2526-2528.	6.0	2,712
116	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
117	Language within our grasp. <i>Trends in Neurosciences</i> , 1998, 21, 188-194.	4.2	2,654
118	Premotor Cortex Activation during Observation and Naming of Familiar Tools. <i>NeuroImage</i> , 1997, 6, 231-236.	2.1	678
119	Parietal cortex: from sight to action. <i>Current Opinion in Neurobiology</i> , 1997, 7, 562-567.	2.0	434
120	Object Representation in the Ventral Premotor Cortex (Area F5) of the Monkey. <i>Journal of Neurophysiology</i> , 1997, 78, 2226-2230.	0.9	646
121	Premotor cortex and the recognition of motor actions. <i>Cognitive Brain Research</i> , 1996, 3, 131-141.	3.3	4,178
122	Action recognition in the premotor cortex. <i>Brain</i> , 1996, 119, 593-609.	3.7	4,538
123	Evidence for visuomotor priming effect. <i>NeuroReport</i> , 1996, 8, 347-349.	0.6	144
124	Localization of grasp representations in humans by positron emission tomography. <i>Experimental Brain Research</i> , 1996, 112, 103-111.	0.7	902
125	Is neglect a theoretically coherent unit?. <i>Neuropsychological Rehabilitation</i> , 1994, 4, 111-114.	1.0	4
126	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

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127	Programming shifts of spatial attention. <i>European Journal of Cognitive Psychology</i> , 1994, 6, 23-41.	1.3	14
128	Corticospinal projections from mesial frontal and cingulate areas in the monkey. <i>NeuroReport</i> , 1994, 5, 2545-2548.	0.6	99
129	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
130	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
131	Visual Processing without Awareness: Evidence from Unilateral Neglect. <i>Journal of Cognitive Neuroscience</i> , 1992, 4, 345-351.	1.1	302
132	Differential hemispheric asymmetries in depression and anxiety: A reaction-time study. <i>Biological Psychiatry</i> , 1991, 29, 887-899.	0.7	54
133	Somatotopic Representation in Inferior Area 6 of the Macaque Monkey. <i>Brain, Behavior and Evolution</i> , 1989, 33, 118-121.	0.9	32
134	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
135	Right hemisphere superiority for programming oculomotion: Evidence from simple reaction time experiments. <i>Neuropsychologia</i> , 1988, 26, 201-211.	0.7	21
136	Movements of attention in the three spatial dimensions and the meaning of "neutral" cues. <i>Neuropsychologia</i> , 1987, 25, 19-29.	0.7	166
137	Reorienting attention across the horizontal and vertical meridians: Evidence in favor of a premotor theory of attention. <i>Neuropsychologia</i> , 1987, 25, 31-40.	0.7	1,636
138	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
139	Evidence of interhemispheric transmission in laterality effects. <i>Neuropsychologia</i> , 1985, 23, 203-213.	0.7	47
140	Free will and motor subroutines: Too much for a small area. <i>Behavioral and Brain Sciences</i> , 1985, 8, 597-597.	0.4	3
141	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
142	Francesco Gennari and the structure of the cerebral cortex. <i>Trends in Neurosciences</i> , 1984, 7, 464-467.	4.2	16
143	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
144	Afferent properties of periarculate neurons in macaque monkeys. I. Somatosensory responses. <i>Behavioural Brain Research</i> , 1981, 2, 125-146.	1.2	356

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145	Afferent properties of periarculate neurons in macaque monkeys. II. Visual responses. Behavioural Brain Research, 1981, 2, 147-163.	1.2	665
146	Neurons responding to visual stimuli in the frontal lobe of macaque monkeys. Neuroscience Letters, 1979, 12, 207-212.	1.0	94
147	Visual receptive fields in the lateral suprasylvian area (Clare-Bishop area) of the cat. Brain Research, 1976, 101, 427-443.	1.1	115
148	Inhibition of visual responses of single units in the cat superior colliculus by the introduction of a second visual stimulus. Brain Research, 1973, 61, 390-394.	1.1	33