Alessandro D'Ausilio

List of Publications by Year
in descending order

92 papers	3,680 citations	172443 29 h-index	144002 57 g-index
99 all docs	99 docs citations	99 times ranked	3548 citing authors

#	Article	IF	Citations
1	The Motor Somatotopy of Speech Perception. Current Biology, 2009, 19, 381-385.	3.9	524
2	Arduino: A low-cost multipurpose lab equipment. Behavior Research Methods, 2012, 44, 305-313.	4.0	283
3	Broca's Area in Language, Action, and Music. Annals of the New York Academy of Sciences, 2009, 1169, 448-458.	3.8	257
4	Encoding of human action in Broca's area. Brain, 2009, 132, 1980-1988.	7.6	201
5	Crossâ€modal plasticity of the motor cortex while listening to a rehearsed musical piece. European Journal of Neuroscience, 2006, 24, 955-958.	2.6	190
6	The role of the motor system in discriminating normal and degraded speech sounds. Cortex, 2012, 48, 882-887.	2.4	141
7	What can music tell us about social interaction?. Trends in Cognitive Sciences, 2015, 19, 111-114.	7.8	130
8	An fMRI investigation on image generation in different sensory modalities: The influence of vividness. Acta Psychologica, 2009, 132, 190-200.	1.5	125
9	Leadership in Orchestra Emerges from the Causal Relationships of Movement Kinematics. PLoS ONE, 2012, 7, e35757.	2.5	94
10	The body talks: Sensorimotor communication and its brain and kinematic signatures. Physics of Life Reviews, 2019, 28, 1-21.	2.8	85
11	Sensoryâ€motor brain network connectivity for speech comprehension. Human Brain Mapping, 2010, 31, 567-580.	3.6	80
12	Sensorimotor communication in professional quartets. Neuropsychologia, 2014, 55, 98-104.	1.6	77
13	The motor cortex is causally related to predictive eye movements during action observation. Neuropsychologia, 2013, 51, 488-492.	1.6	74
14	The contribution of the frontal lobe to the perception of speech. Journal of Neurolinguistics, 2012, 25, 328-335.	1.1	66
15	Effect of weight-related labels on corticospinal excitability during observation of grasping: a TMS study. Experimental Brain Research, 2011, 211, 161-167.	1.5	63
16	A theory for how sensorimotor skills are learned and retained in noisy and nonstationary neural circuits. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E5078-87.	7.1	63
17	Tongue corticospinal modulation during attended verbal stimuli: Priming and coarticulation effects. Neuropsychologia, 2011, 49, 3670-3676.	1.6	61
18	Measuring social interaction in music ensembles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150377.	4.0	59

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19	Grasping synergies: A motor-control approach to the mirror neuron mechanism. Physics of Life Reviews, 2015, 12, 91-103.	2.8	53
20	Using Arduino microcontroller boards to measure response latencies. Behavior Research Methods, 2013, 45, 1332-1346.	4.0	49
21	Frozen in (e)motion: How reactive motor inhibition is influenced by the emotional content of stimuli in healthy and psychiatric populations. Behaviour Research and Therapy, 2021, 146, 103963.	3.1	42
22	Lexicality drives audio-motor transformations in Brocaâ€™s area. Brain and Language, 2010, 112, 3-11.	1.6	37
23	Why Professional Athletes Need a Prolonged Period of Warm-Up and Other Peculiarities of Human Motor Learning. Journal of Motor Behavior, 2010, 42, 381-388.	0.9	37
24	Listener-Speaker Perceived Distance Predicts the Degree of Motor Contribution to Speech Perception. Cerebral Cortex, 2015, 25, 281-288.	2.9	36
25	A new method for detecting causality in fMRI data of cognitive processing. Cognitive Processing, 2006, 7, 42-52.	1.4	35
26	Listening to speech recruits specific tongue motor synergies as revealed by transcranial magnetic stimulation and tissue-Doppler ultrasound imaging. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130418.	4.0	35
27	Brain network for passive word listening as evaluated with ICA and Granger causality. Brain Research Bulletin, 2007, 72, 284-292.	3.0	34
28	The sensorimotor and social sides of the architecture of speech. Behavioral and Brain Sciences, 2014, 37, 569-570.	0.7	33
29	Disruption of Broca's Area Alters Higher-order Chunking Processing during Perceptual Sequence Learning. Journal of Cognitive Neuroscience, 2016, 28, 402-417.	2.3	31
30	Vocal pitch discrimination in the motor system. Brain and Language, 2011, 118, 9-14.	1.6	30
31	Distinct brain signatures of content and structure violation during action observation. Neuropsychologia, 2015, 75, 30-39.	1.6	30
32	Grasping othersâ€™ movements: Rapid discrimination of object size from observed hand movements.. Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 918-929.	0.9	30
33	Mental imagery generation in different modalities activates sensory-motor areas. Cognitive Processing, 2009, 10, 268-271.	1.4	28
34	Mirror-Like Mechanisms and Music. Scientific World Journal, The, 2009, 9, 1415-1422.	2.1	25
35	Movement kinematics drive chain selection toward intention detection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10452-10457.	7.1	25
36	Motor excitability evaluation in developmental stuttering: A transcranial magnetic stimulation study. Cortex, 2013, 49, 781-792.	2.4	24

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37	Domain-specific and domain-general processes in social perception â€“ A complementary approach. Consciousness and Cognition, 2015, 36, 434-437.	1.5	24
38	Generalization of motor resonance during the observation of hand, mouth, and eye movements. Journal of Neurophysiology, 2015, 114, 2295-2304.	1.8	21
39	Vision of tongue movements bias auditory speech perception. Neuropsychologia, 2014, 63, 85-91.	1.6	20
40	How and when auditory action effects impair motor performance. Experimental Brain Research, 2010, 201, 323-330.	1.5	19
41	Representing tools as hand movements: Early and somatotopic visuomotor transformations. Neuropsychologia, 2014, 61, 335-344.	1.6	18
42	Motor Recruitment during Action Observation: Effect of Interindividual Differences in Action Strategy. Cerebral Cortex, 2020, 30, 3910-3920.	2.9	18
43	Visual detection is locked to the internal dynamics of cortico-motor control. PLoS Biology, 2020, 18, e3000898.	5.6	18
44	Early modulation of intra-cortical inhibition during the observation of action mistakes. Scientific Reports, 2018, 8, 1784.	3.3	17
45	The functional role of the ventral premotor cortex in a visually paced finger tapping task: A TMS study. Behavioural Brain Research, 2011, 220, 325-330.	2.2	16
46	Action observation effects reflect the modular organization of the human motor system. Cortex, 2017, 95, 104-118.	2.4	16
47	Beta rhythm modulation by speech sounds: somatotopic mapping in somatosensory cortex. Scientific Reports, 2016, 6, 31182.	3.3	15
48	Passive sensorimotor stimulation triggers long lasting alpha-band fluctuations in visual perception. Journal of Neurophysiology, 2018, 119, 380-388.	1.8	15
49	Multi-layer adaptation of group coordination in musical ensembles. Scientific Reports, 2019, 9, 5854.	3.3	15
50	Motor cortical inhibition during concurrent action execution and action observation. NeuroImage, 2020, 208, 116445.	4.2	15
51	Parallel fast and slow motor inhibition processes in Joint Action coordination. Cortex, 2020, 133, 346-357.	2.4	15
52	The Role of the Mirror System in Mapping Complex Sounds into Actions. Journal of Neuroscience, 2007, 27, 5847-5848.	3.6	14
53	Motor system recruitment during action observation: No correlation between mu-rhythm desynchronization and corticospinal excitability. PLoS ONE, 2018, 13, e0207476.	2.5	14
54	Multilevel Behavioral Synchronization in a Joint Tower-Building Task. IEEE Transactions on Cognitive and Developmental Systems, 2017, 9, 223-233.	3.8	13

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55	Motor cortex compensates for lack of sensory and motor experience during auditory speech perception. Neuropsychologia, 2019, 128, 290-296.	1.6	13
56	Interpersonal synchronization of movement intermittency. IScience, 2022, 25, 104096.	4.1	12
57	The Ontogenesis of Action Syntax. Collabra: Psychology, 2019, 5, .	1.8	11
58	Modeling speech imitation and ecological learning of auditory-motor maps. Frontiers in Psychology, 2013, 4, 364.	2.1	10
59	Automatic imitation of the arm kinematic profile in interacting partners. Cognitive Processing, 2015, 16, 197-201.	1.4	10
60	That does not sound right: Sounds affect visual ERPs during a piano sight-reading task. Behavioural Brain Research, 2019, 367, 1-9.	2.2	10
61	Neurons of rat motor cortex become active during both grasping execution and grasping observation. Current Biology, 2021, 31, 4405-4412.e4.	3.9	10
62	Computational Validation of the Motor Contribution to Speech Perception. Topics in Cognitive Science, 2014, 6, 461-475.	1.9	9
63	The neural oscillatory markers of phonetic convergence during verbal interaction. Human Brain Mapping, 2019, 40, 187-201.	3.6	9
64	The Relationship Between F0 Synchrony and Speech Convergence in Dyadic Interaction. , 0, , .		9
65	A convenient and accurate parallel Input/Output USB device for E-Prime. Behavior Research Methods, 2011, 43, 292-296.	4.0	8
66	Assessing Social Competence in Visually Impaired People and Proposing an Interventional Program in Visually Impaired Children. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 929-935.	3.8	8
67	Effects of Interpersonal Sensorimotor Synchronization on Dyadic Creativity: Gender Matters. Frontiers in Psychology, 2018, 9, 2604.	2.1	7
68	Motor overload: GABAergic index of parallel buffer costs. Brain Stimulation, 2021, 14, 1106-1108.	1.6	7
69	Some considerations about the biological appearance of pacing stimuli in visuomotor finger-tapping tasks. Cognitive Processing, 2011, 12, 215-218.	1.4	6
70	Beta Rebound as an Index of Temporal Integration of Somatosensory and Motor Signals. Frontiers in Systems Neuroscience, 2020, 14, 63.	2.5	6
71	Prediction of Speech Onset by Micro-Electrocorticography of the Human Brain. International Journal of Neural Systems, 2021, 31, 2150025.	5.2	6
72	Towards Automated Analysis of Joint Music Performance in the Orchestra. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 120-127.	0.3	6

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73	The role of dorsal premotor cortex in joint action stopping. IScience, 2021, 24, 103330.	4.1	5
74	Predictive Technologies: Can Smart Tools Augment the Brain's Predictive Abilities?. Frontiers in Neuroscience, 2016, 10, 186.	2.8	4
75	Role of sensorimotor areas in early detection of motor errors: An EEG and TMS study. Behavioural Brain Research, 2020, 378, 112248.	2.2	4
76	Motor control may support mirror neuron research with new hypotheses and methods. Physics of Life Reviews, 2015, 12, 133-137.	2.8	2
77	Interaction, Cooperation and Entrainment in Music: Experience and Perspectives. Lecture Notes in Morphogenesis, 2021, , 213-233.	0.2	2
78	Communication in Orchestra Playing as Measured with Granger Causality. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 273-275.	0.3	2
79	Analyzing Vocal Tract Movements During Speech Accommodation. , 0, , .		2
80	12. Studying Human-Human interaction to build the future of Human-Robot interaction. , 2015, , 213-226.		1
81	Developmental stuttering disappearance after iatrogenic lesion of the facial nerve. Journal of Neurosurgical Sciences, 2020, 64, 311-312.	0.6	1
82	COLLEGO: An Interactive Platform for Studying Joint Action During an Ecological Collaboration Task. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 67-72.	0.3	1
83	Anticipatory postural adjustments during joint action coordination. Scientific Reports, 2019, 9, 12328.	3.3	0
84	The future of sensorimotor communication research. Physics of Life Reviews, 2019, 28, 46-51.	2.8	0
85	From action to language:. , 2013, , 324-332.		0
86	The Neurophysiology of Action Perception. , 2020, , 17-32.		0
87	Visual detection is locked to the internal dynamics of cortico-motor control. , 2020, 18, e3000898.		0
88	Visual detection is locked to the internal dynamics of cortico-motor control. , 2020, 18, e3000898.		0
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91	Visual detection is locked to the internal dynamics of cortico-motor control. , 2020, 18, e3000898.		0
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