

# Giovanni Di Pino

## List of Publications by Year in descending order

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Version: 2024-02-01

104  
papers

4,768  
citations

185998

28  
h-index

106150

65  
g-index

114  
all docs

114  
docs citations

114  
times ranked

5314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resting state network connectivity is attenuated by fMRI acoustic noise. <i>NeuroImage</i> , 2022, 247, 118791.	2.1	26
2	<i>BDNF</i> polymorphism and interhemispheric balance of motor cortex excitability: a preliminary study. <i>Journal of Neurophysiology</i> , 2022, 127, 204-212.	0.9	6
3	Sensorimotor integration within the primary motor cortex by selective nerve fascicle stimulation. <i>Journal of Physiology</i> , 2022, 600, 1497-1514.	1.3	6
4	Principles of human movement augmentation and the challenges in making it a reality. <i>Nature Communications</i> , 2022, 13, 1345.	5.8	34
5	A Soft Zwitterionic Hydrogel as Potential Coating on a Polyimide Surface to Reduce Foreign Body Reaction to Intraneural Electrodes. <i>Molecules</i> , 2022, 27, 3126.	1.7	6
6	Transcranial static magnetic field stimulation can modify disease progression in amyotrophic lateral sclerosis. <i>Brain Stimulation</i> , 2021, 14, 51-54.	0.7	11
7	Behavioral and Physiological Evidence of a favored Hand Posture in the Body Representation for Action. <i>Cerebral Cortex</i> , 2021, 31, 3299-3310.	1.6	4
8	Does sonification of action simulation training impact corticospinal excitability and audiomotor plasticity?. <i>Experimental Brain Research</i> , 2021, 239, 1489-1505.	0.7	6
9	A PCA-Based Method to Select the Number and the Body Location of Piezoresistive Sensors in a Wearable System for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 6847-6855.	2.4	15
10	Neurophysiological models of phantom limb pain: what can be learnt. <i>Minerva Anestesiologica</i> , 2021, 87, 481-487.	0.6	14
11	Cartesian Space Feedback for Real Time Tracking of a Supernumerary Robotic Limb: a Pilot Study. , 2021, , .		7
12	Human performance in three-hands tasks. <i>Scientific Reports</i> , 2021, 11, 9511.	1.6	17
13	Development and Validation of a Novel Calibration Methodology and Control Approach for Robot-Aided Transcranial Magnetic Stimulation (TMS). <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1589-1600.	2.5	11
14	Biomedical and Tissue Engineering Strategies to Control Foreign Body Reaction to Invasive Neural Electrodes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 659033.	2.0	19
15	Respiratory Rate Estimation During Walking/Running Activities Using Principal Components Estimated from Signals Recorded by a Smart Garment Embedding Piezoresistive Sensors. , 2021, , .		1
16	Neurophysiology of slip sensation and grip reaction: insights for hand prosthesis control of slippage. <i>Journal of Neurophysiology</i> , 2021, 126, 477-492.	0.9	5
17	Sonification of combined action observation and motor imagery: Effects on corticospinal excitability. <i>Brain and Cognition</i> , 2021, 152, 105768.	0.8	12
18	Altered Proprioceptive Feedback Influences Movement Kinematics in a Lifting Task. , 2020, 2020, 3232-3235.		4

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19	The balance recovery bimodal model in stroke patients between evidence and speculation: Do recent studies support it?. <i>Clinical Neurophysiology</i> , 2020, 131, 2488-2490.	0.7	13
20	Clean-Breathing: a Novel Sensor Fusion Algorithm Based on ICA to Remove Motion Artifacts from Breathing Signal. , 2020, , .		2
21	Embodying melody through a conducting baton: a pilot comparison between musicians and non-musicians. <i>Experimental Brain Research</i> , 2020, 238, 2279-2291.	0.7	2
22	â€˜Doublecheck: a sensory confirmation is required to own a robotic hand, sending a command to feel in charge of itâ€™. <i>Cognitive Neuroscience</i> , 2020, 11, 216-228.	0.6	16
23	A Novel Proprioceptive Feedback System for Supernumerary Robotic Limb. , 2020, , .		12
24	A virtual reality platform for multisensory integration studies. , 2020, 2020, 3244-3247.		1
25	Manipulating The Body Representation: Assessment Of A Novel Platform. , 2020, 2020, 3248-3251.		0
26	Flexion-Extension Wrist Impedance Estimation Using a Novel Portable Wrist Exoskeleton: a Pilot Study. , 2020, , .		3
27	Evaluation and Treatment of Vascular Cognitive Impairment by Transcranial Magnetic Stimulation. <i>Neural Plasticity</i> , 2020, 2020, 1-17.	1.0	44
28	PDMeter: A Wrist Wearable Device for an at-Home Assessment of the Parkinsonâ€™s Disease Rigidity. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1325-1333.	2.7	24
29	Sensory- and Action-Oriented Embodiment of Neurally-Interfaced Robotic Hand Prostheses. <i>Frontiers in Neuroscience</i> , 2020, 14, 389.	1.4	31
30	â€˜I see colors when I touch themâ€™. Color agnosia with visuo-tactile facilitation in a patient with posterior cortical atrophy. <i>Clinical Neurology and Neurosurgery</i> , 2020, 192, 105747.	0.6	2
31	Modulation of Body Representation Impacts on Efferent Autonomic Activity. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 1104-1116.	1.1	15
32	Detecting cortical circuits resonant to high-frequency oscillations in the human primary motor cortex: a TMS-tACS study. <i>Scientific Reports</i> , 2020, 10, 7695.	1.6	11
33	Osseointegration for lower and upper-limb amputation a systematic review of clinical outcomes and complications. <i>Journal of Biological Regulators and Homeostatic Agents</i> , 2020, 34, 315-326. Congress of the Italian Orthopaedic Resea.	0.7	1
34	Multisensory bionic limb to achieve prosthesis embodiment and reduce distorted phantom limb perceptions. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 833-836.	0.9	101
35	Conditioning transcranial magnetic stimulation of ventral premotor cortex shortens simple reaction time. <i>Cortex</i> , 2019, 121, 322-331.	1.1	11
36	Evidence for associative plasticity in the human visual cortex. <i>Brain Stimulation</i> , 2019, 12, 705-713.	0.7	15

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37	Transcranial direct current stimulation over the sensory-motor regions inhibits gamma synchrony. <i>Human Brain Mapping</i> , 2019, 40, 2736-2746.	1.9	37
38	Restoring tactile sensations via neural interfaces for real-time force-and-slippage closed-loop control of bionic hands. <i>Science Robotics</i> , 2019, 4, .	9.9	112
39	Different level of virtualization of sight and touch produces the uncanny valley of avatar's hand embodiment. <i>Scientific Reports</i> , 2019, 9, 19030.	1.6	19
40	Intermittent Theta Burst Stimulation Over Ventral Premotor Cortex or Inferior Parietal Lobule Does Not Enhance the Rubber Hand Illusion. <i>Frontiers in Neuroscience</i> , 2018, 12, 870.	1.4	13
41	Evaluation of Hand-Eye and Robot-World Calibration Algorithms for TMS Application. , 2018, 2018, 1115-1119.		3
42	Design of a Wearable Mechatronic Device to Measure the Wrist Rigidity in Parkinson's Disease Patients. , 2018, , .		3
43	Bilateral Transcranial Direct Current Stimulation Reshapes Resting-State Brain Networks: A Magnetoencephalography Assessment. <i>Neural Plasticity</i> , 2018, 2018, 1-10.	1.0	26
44	Quantitative Analysis of Bradykinesia and Rigidity in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018, 9, 121.	1.1	75
45	Feature Extraction in Sit-to-Stand Task Using M-IMU Sensors and Evaluatiton in Parkinson's Disease. , 2018, , .		9
46	Slow Activity in Focal Epilepsy During Sleep and Wakefulness. <i>Clinical EEG and Neuroscience</i> , 2017, 48, 200-208.	0.9	37
47	Transcutaneous and invasive vagal nerve stimulations engage the same neural pathways: In-vivo human evidence. <i>Brain Stimulation</i> , 2017, 10, 853-854.	0.7	27
48	Cathodal transcranial direct current stimulation reduces seizure frequency in adults with drug-resistant temporal lobe epilepsy: A sham controlled study. <i>Brain Stimulation</i> , 2017, 10, 333-335.	0.7	46
49	Neurobiological after-effects of non-invasive brain stimulation. <i>Brain Stimulation</i> , 2017, 10, 1-18.	0.7	288
50	A novel c132-134del mutation in Unverricht-Lundborg disease and the review of literature of heterozygous compound patients. <i>Epilepsia</i> , 2017, 58, e31-e35.	2.6	10
51	A teleoperated control approach for anthropomorphic manipulator using magneto-inertial sensors. , 2017, 2017, 156-161.		8
52	Assessing bradykinesia in Parkinson's disease using gyroscope signals. , 2017, 2017, 1556-1561.		30
53	Invasive Intraneural Interfaces: Foreign Body Reaction Issues. <i>Frontiers in Neuroscience</i> , 2017, 11, 497.	1.4	81
54	Targeted muscle reinnervation for improved control of myoelectric upper limb prostheses. <i>Journal of Biological Regulators and Homeostatic Agents</i> , 2017, 31, .	0.7	1

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55	Human Motor Cortex Functional Changes in Acute Stroke: Gender Effects. <i>Frontiers in Neuroscience</i> , 2016, 10, 10.	1.4	22
56	Combining Robotic Training and Non-Invasive Brain Stimulation in Severe Upper Limb-Impaired Chronic Stroke Patients. <i>Frontiers in Neuroscience</i> , 2016, 10, 88.	1.4	27
57	Control of Prosthetic Hands via the Peripheral Nervous System. <i>Frontiers in Neuroscience</i> , 2016, 10, 116.	1.4	93
58	Linking cognitive abilities with the propensity for risk-taking: the balloon analogue risk task. <i>Neurological Sciences</i> , 2016, 37, 2003-2007.	0.9	4
59	Val66Met BDNF Polymorphism Implies a Different Way to Recover From Stroke Rather Than a Worse Overall Recoverability. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 3-8.	1.4	34
60	Intraneural stimulation elicits discrimination of textural features by artificial fingertip in intact and amputee humans. <i>ELife</i> , 2016, 5, e09148.	2.8	286
61	Hyperventilation induces sympathetic overactivation in mesial temporal epilepsy. <i>Epilepsy Research</i> , 2015, 110, 221-227.	0.8	14
62	Val66Met BDNF Gene Polymorphism Influences Human Motor Cortex Plasticity in Acute Stroke. <i>Brain Stimulation</i> , 2015, 8, 92-96.	0.7	64
63	The effect of transcutaneous vagus nerve stimulation on cortical excitability. <i>Journal of Neural Transmission</i> , 2015, 122, 679-685.	1.4	94
64	Biomechanical and neural changes evaluation induced by prolonged use of non-stable footwear: a systematic review. <i>Musculoskeletal Surgery</i> , 2015, 99, 179-187.	0.7	7
65	Wakefulness delta waves increase after cortical plasticity induction. <i>Clinical Neurophysiology</i> , 2015, 126, 1221-1227.	0.7	48
66	<i>Cronobacter sakazakii</i> DNA Detection in Cerebrospinal Fluid of a Patient with Amyotrophic Lateral Sclerosis Mimic Syndrome. <i>Case Reports in Neurology</i> , 2015, 7, 238-241.	0.3	0
67	Augmentation-related brain plasticity. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 109.	1.2	65
68	An MR-compatible force sensor based on FBG technology for biomedical application. , 2014, 2014, 5731-4.		4
69	Does an intraneural interface short-term implant for robotic hand control modulate sensorimotor cortical integration? An EEG-TMS co-registration study on a human amputee. <i>Restorative Neurology and Neuroscience</i> , 2014, 32, 281-292.	0.4	19
70	Efficacy of cathodal transcranial direct current stimulation in drug-resistant epilepsy: A proof of principle. , 2014, 2014, 530-3.		15
71	Immediate and Late Modulation of Interhemispheric Imbalance With Bilateral Transcranial Direct Current Stimulation in Acute Stroke. <i>Brain Stimulation</i> , 2014, 7, 841-848.	0.7	96
72	Relapsing "remitting severe generalized muscular weakness after botulinum toxin treatment for hyperhidrosis. <i>Muscle and Nerve</i> , 2014, 50, 456-457.	1.0	6

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73	The effect of practice on random number generation task: A transcranial direct current stimulation study. <i>Neurobiology of Learning and Memory</i> , 2014, 114, 51-57.	1.0	8
74	Invasive neural interfaces: the perspective of the surgeon. <i>Journal of Surgical Research</i> , 2014, 188, 77-87.	0.8	27
75	The contribution of transcranial magnetic stimulation in the diagnosis and in the management of dementia. <i>Clinical Neurophysiology</i> , 2014, 125, 1509-1532.	0.7	92
76	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. <i>Science Translational Medicine</i> , 2014, 6, 222ra19.	5.8	805
77	Modulation of brain plasticity in stroke: a novel model for neurorehabilitation. <i>Nature Reviews Neurology</i> , 2014, 10, 597-608.	4.9	644
78	P189: Does an intraneural interface short-term implant for robotic hand control modulate sensorimotor cortical integration? An EEG-TMS co-registration study on a human amputee. <i>Clinical Neurophysiology</i> , 2014, 125, S99.	0.7	0
79	Development of goal-directed action selection guided by intrinsic motivations: an experiment with children. <i>Experimental Brain Research</i> , 2014, 232, 2167-2177.	0.7	21
80	The illusion box of Syndactyly: Setup and ad hoc algorithm to induce virtual fingers webbing. , 2013, , .		0
81	Zonisamide for seizures in Parkinson's disease with dementia. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2013, 22, 324-325.	0.9	10
82	Optical Fiber-Based MR-Compatible Sensors for Medical Applications: An Overview. <i>Sensors</i> , 2013, 13, 14105-14120.	2.1	179
83	Hot spot hound: A novel robot-assisted platform for enhancing TMS performance. , 2013, 2013, 6301-4.		3
84	Overview of the implant of intraneural multielectrodes in human for controlling a 5-fingered hand prosthesis, delivering sensorial feedback and producing rehabilitative neuroplasticity. , 2012, , .		11
85	Neurophysiological bases of tremors and accelerometric parameters analysis. , 2012, , .		13
86	A neurally-interfaced hand prosthesis tuned inter-hemispheric communication. <i>Restorative Neurology and Neuroscience</i> , 2012, 30, 407-418.	0.4	34
87	Developments towards a Psychophysical Testing Platform - A Computerized Tool to Control, Deliver and Evaluate Electrical Stimulation to Relieve Phantom Limb Pain. <i>IFMBE Proceedings</i> , 2011, , 137-140.	0.2	2
88	Decoding Information From Neural Signals Recorded Using Intraneural Electrodes: Toward the Development of a Neurocontrolled Hand Prosthesis. <i>Proceedings of the IEEE</i> , 2010, 98, 407-417.	16.4	84
89	Intrafascicular thin-film multichannel electrodes for sensory feedback: Evidences on a human amputee. , 2010, 2010, 1800-3.		11
90	ODEs model of foreign body reaction around peripheral nerve implanted electrode. , 2010, 2010, 1543-6.		7

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91	Preliminary investigations on laminin coatings for flexible polyimide/platinum thin films for PNS applications. , 2010, 2010, 1527-30.		3
92	Double nerve intraneural interface implant on a human amputee for robotic hand control. Clinical Neurophysiology, 2010, 121, 777-783.	0.7	367
93	On the control of a robot hand by extracting neural signals from the PNS: Preliminary results from a human implantation. , 2009, 2009, 4586-9.		12
94	Beyond Biomimetics: Towards Insect/Machine Hybrid Controllers for Space Applications. Advanced Robotics, 2009, 23, 939-953.	1.1	4
95	Chapter 3 Interfacing Insect Brain for Space Applications. International Review of Neurobiology, 2009, 86, 39-47.	0.9	0
96	Neuroplasticity in amputees: Main implications on bidirectional interfacing of cybernetic hand prostheses. Progress in Neurobiology, 2009, 88, 114-126.	2.8	82
97	Conceptualization of an insect/machine hybrid controller for space applications. , 2008, , .		2
98	Multiple receptors mediate the trophic effects of serotonin on ventroposterior thalamic neurons in vitro. Brain Research, 2006, 1095, 17-25.	1.1	32
99	Roles for Serotonin in Neurodevelopment: More than just Neural Transmission. Current Neuropharmacology, 2004, 2, 403-417.	1.4	41
100	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	0
101	Embodying an Artificial Hand Increases Blood Flow to the Investigated Limb. SSRN Electronic Journal, 0, , .	0.4	0
102	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	0
103	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	2
104	Design of multi-€pad electrotactile system envisioned as a feedback channel for supernumerary robotic limbs. Artificial Organs, 0, , .	1.0	2