Giovanni Di Pino

List of Publications by Year
in descending order

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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	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. Science Translational Medicine, 2014, 6, 222ra19.	5.8	805
2	Modulation of brain plasticity in stroke: a novel model for neurorehabilitation. Nature Reviews Neurology, 2014, 10, 597-608.	4.9	644
3	Double nerve intraneural interface implant on a human amputee for robotic hand control. Clinical Neurophysiology, 2010, 121, 777-783.	0.7	367
4	Neurobiological after-effects of non-invasive brain stimulation. Brain Stimulation, 2017, 10, 1-18.	0.7	288
5	Intraneural stimulation elicits discrimination of textural features by artificial fingertip in intact and amputee humans. ELife, 2016, 5, e09148.	2.8	286
6	Optical Fiber-Based MR-Compatible Sensors for Medical Applications: An Overview. Sensors, 2013, 13, 14105-14120.	2.1	179
7	Restoring tactile sensations via neural interfaces for real-time force-and-slippage closed-loop control of bionic hands. Science Robotics, 2019, 4, .	9.9	112
8	Multisensory bionic limb to achieve prosthesis embodiment and reduce distorted phantom limb perceptions. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 833-836.	0.9	101
9	Immediate and Late Modulation of Interhemipheric Imbalance With Bilateral Transcranial Direct Current Stimulation in Acute Stroke. Brain Stimulation, 2014, 7, 841-848.	0.7	96
10	The effect of transcutaneous vagus nerve stimulation on cortical excitability. Journal of Neural Transmission, 2015, 122, 679-685.	1.4	94
11	Control of Prosthetic Hands via the Peripheral Nervous System. Frontiers in Neuroscience, 2016, 10, 116.	1.4	93
12	The contribution of transcranial magnetic stimulation in the diagnosis and in the management of dementia. Clinical Neurophysiology, 2014, 125, 1509-1532.	0.7	92
13	Decoding Information From Neural Signals Recorded Using Intraneural Electrodes: Toward the Development of a Neurocontrolled Hand Prosthesis. Proceedings of the IEEE, 2010, 98, 407-417.	16.4	84
14	Neuroplasticity in amputees: Main implications on bidirectional interfacing of cybernetic hand prostheses. Progress in Neurobiology, 2009, 88, 114-126.	2.8	82
15	Invasive Intraneural Interfaces: Foreign Body Reaction Issues. Frontiers in Neuroscience, 2017, 11, 497.	1.4	81
16	Quantitative Analysis of Bradykinesia and Rigidity in Parkinsonâ€™s Disease. Frontiers in Neurology, 2018, 9, 121.	1.1	75
17	Augmentation-related brain plasticity. Frontiers in Systems Neuroscience, 2014, 8, 109.	1.2	65
18	Val66Met BDNF Gene Polymorphism Influences Human Motor Cortex Plasticity in Acute Stroke. Brain Stimulation, 2015, 8, 92-96.	0.7	64

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19	Wakefulness delta waves increase after cortical plasticity induction. Clinical Neurophysiology, 2015, 126, 1221-1227.	0.7	48
20	Cathodal transcranial direct current stimulation reduces seizure frequency in adults with drug-resistant temporal lobe epilepsy: A sham controlled study. Brain Stimulation, 2017, 10, 333-335.	0.7	46
21	Evaluation and Treatment of Vascular Cognitive Impairment by Transcranial Magnetic Stimulation. Neural Plasticity, 2020, 2020, 1-17.	1.0	44
22	Roles for Serotonin in Neurodevelopment: More than just Neural Transmission. Current Neuropharmacology, 2004, 2, 403-417.	1.4	41
23	Slow Activity in Focal Epilepsy During Sleep and Wakefulness. Clinical EEG and Neuroscience, 2017, 48, 200-208.	0.9	37
24	Transcranial direct current stimulation over the sensoryâ€motor regions inhibits gamma synchrony. Human Brain Mapping, 2019, 40, 2736-2746.	1.9	37
25	A neurally-interfaced hand prosthesis tuned inter-hemispheric communication. Restorative Neurology and Neuroscience, 2012, 30, 407-418.	0.4	34
26	Val66Met BDNF Polymorphism Implies a Different Way to Recover From Stroke Rather Than a Worse Overall Recoverability. Neurorehabilitation and Neural Repair, 2016, 30, 3-8.	1.4	34
27	Principles of human movement augmentation and the challenges in making it a reality. Nature Communications, 2022, 13, 1345.	5.8	34
28	Multiple receptors mediate the trophic effects of serotonin on ventroposterior thalamic neurons in vitro. Brain Research, 2006, 1095, 17-25.	1.1	32
29	Sensory- and Action-Oriented Embodiment of Neurally-Interfaced Robotic Hand Prostheses. Frontiers in Neuroscience, 2020, 14, 389.	1.4	31
30	Assessing bradykinesia in Parkinson's disease using gyroscope signals. , 2017, 2017, 1556-1561.		30
31	Invasive neural interfaces: the perspective of the surgeon. Journal of Surgical Research, 2014, 188, 77-87.	0.8	27
32	Combining Robotic Training and Non-Invasive Brain Stimulation in Severe Upper Limb-Impaired Chronic Stroke Patients. Frontiers in Neuroscience, 2016, 10, 88.	1.4	27
33	Transcutaneous and invasive vagal nerve stimulations engage the same neural pathways: In-vivo human evidence. Brain Stimulation, 2017, 10, 853-854.	0.7	27
34	Bilateral Transcranial Direct Current Stimulation Reshapes Resting-State Brain Networks: A Magnetoencephalography Assessment. Neural Plasticity, 2018, 2018, 1-10.	1.0	26
35	Resting state network connectivity is attenuated by fMRI acoustic noise. NeuroImage, 2022, 247, 118791.	2.1	26
36	PDMeter: A Wrist Wearable Device for an at-Home Assessment of the Parkinsonâ€™s Disease Rigidity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1325-1333.	2.7	24

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37	Human Motor Cortex Functional Changes in Acute Stroke: Gender Effects. Frontiers in Neuroscience, 2016, 10, 10.	1.4	22
38	Development of goal-directed action selection guided by intrinsic motivations: an experiment with children. Experimental Brain Research, 2014, 232, 2167-2177.	0.7	21
39	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. Restorative Neurology and Neuroscience, 2014, 32, 281-292.	0.4	19
40	Different level of virtualization of sight and touch produces the uncanny valley of avatarâ€™s hand embodiment. Scientific Reports, 2019, 9, 19030.	1.6	19
41	Biomedical and Tissue Engineering Strategies to Control Foreign Body Reaction to Invasive Neural Electrodes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 659033.	2.0	19
42	Human performance in three-hands tasks. Scientific Reports, 2021, 11, 9511.	1.6	17
43	â€˜Doublecheck: a sensory confirmation is required to own a robotic hand, sending a command to feel in charge of itâ€™. Cognitive Neuroscience, 2020, 11, 216-228.	0.6	16
44	Efficacy of cathodal transcranial direct current stimulation in drug-resistant epilepsy: A proof of principle. , 2014, 2014, 530-3.		15
45	Evidence for associative plasticity in the human visual cortex. Brain Stimulation, 2019, 12, 705-713.	0.7	15
46	Modulation of Body Representation Impacts on Efferent Autonomic Activity. Journal of Cognitive Neuroscience, 2020, 32, 1104-1116.	1.1	15
47	A PCA-Based Method to Select the Number and the Body Location of Piezoresistive Sensors in a Wearable System for Respiratory Monitoring. IEEE Sensors Journal, 2021, 21, 6847-6855.	2.4	15
48	Hyperventilation induces sympathetic overactivation in mesial temporal epilepsy. Epilepsy Research, 2015, 110, 221-227.	0.8	14
49	Neurophysiological models of phantom limb pain: what can be learnt. Minerva Anestesiologica, 2021, 87, 481-487.	0.6	14
50	Neurophysiological bases of tremors and accelerometric parameters analysis. , 2012, , .		13
51	Intermittent Theta Burst Stimulation Over Ventral Premotor Cortex or Inferior Parietal Lobule Does Not Enhance the Rubber Hand Illusion. Frontiers in Neuroscience, 2018, 12, 870.	1.4	13
52	The balance recovery bimodal model in stroke patients between evidence and speculation: Do recent studies support it?. Clinical Neurophysiology, 2020, 131, 2488-2490.	0.7	13
53	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
54	A Novel Proprioceptive Feedback System for Supernumerary Robotic Limb. , 2020, , .		12

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55	Sonification of combined action observation and motor imagery: Effects on corticospinal excitability. Brain and Cognition, 2021, 152, 105768.	0.8	12
56	Intrafascicular thin-film multichannel electrodes for sensory feedback: Evidences on a human amputee. , 2010, 2010, 1800-3.		11
57	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
58	Conditioning transcranial magnetic stimulation of ventral premotor cortex shortens simple reaction time. Cortex, 2019, 121, 322-331.	1.1	11
59	Transcranial static magnetic field stimulation can modify disease progression in amyotrophic lateral sclerosis. Brain Stimulation, 2021, 14, 51-54.	0.7	11
60	Development and Validation of a Novel Calibration Methodology and Control Approach for Robot-Aided Transcranial Magnetic Stimulation (TMS). IEEE Transactions on Biomedical Engineering, 2021, 68, 1589-1600.	2.5	11
61	Detecting cortical circuits resonant to high-frequency oscillations in the human primary motor cortex: a TMS-tACS study. Scientific Reports, 2020, 10, 7695.	1.6	11
62	Zonisamide for seizures in Parkinson's disease with dementia. Seizure: the Journal of the British Epilepsy Association, 2013, 22, 324-325.	0.9	10
63	A novel c132â€134del mutation in Unverrichtâ€Lundborg disease and the review of literature of heterozygous compound patients. Epilepsia, 2017, 58, e31-e35.	2.6	10
64	Feature Extraction in Sit-to-Stand Task Using M-IMU Sensors and Evaluatiton in Parkinson's Disease. , 2018, , .		9
65	The effect of practice on random number generation task: A transcranial direct current stimulation study. Neurobiology of Learning and Memory, 2014, 114, 51-57.	1.0	8
66	A teleoperated control approach for anthropomorphic manipulator using magneto-inertial sensors. , 2017, 2017, 156-161.		8
67	ODEs model of foreign body reaction around peripheral nerve implanted electrode. , 2010, 2010, 1543-6.		7
68	Biomechanical and neural changes evaluation induced by prolonged use of non-stable footwear: a systematic review. Musculoskeletal Surgery, 2015, 99, 179-187.	0.7	7
69	Cartesian Space Feedback for Real Time Tracking of a Supernumerary Robotic Limb: a Pilot Study. , 2021, , .		7
70	Relapsingâ€“remitting severe generalized muscular weakness after botulinum toxin treatment for hyperhidrosis. Muscle and Nerve, 2014, 50, 456-457.	1.0	6
71	Does sonification of action simulation training impact corticospinal excitability and audiomotor plasticity?. Experimental Brain Research, 2021, 239, 1489-1505.	0.7	6
72	BDNF polymorphism and interhemispheric balance of motor cortex excitability: a preliminary study. Journal of Neurophysiology, 2022, 127, 204-212.	0.9	6

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73	Sensorimotor integration within the primary motor cortex by selective nerve fascicle stimulation. Journal of Physiology, 2022, 600, 1497-1514.	1.3	6
74	A Soft Zwitterionic Hydrogel as Potential Coating on a Polyimide Surface to Reduce Foreign Body Reaction to Intraneural Electrodes. Molecules, 2022, 27, 3126.	1.7	6
75	Neurophysiology of slip sensation and grip reaction: insights for hand prosthesis control of slippage. Journal of Neurophysiology, 2021, 126, 477-492.	0.9	5
76	Beyond Biomimetics: Towards Insect/Machine Hybrid Controllers for Space Applications. Advanced Robotics, 2009, 23, 939-953.	1.1	4
77	An MR-compatible force sensor based on FBG technology for biomedical application. , 2014, 2014, 5731-4.		4
78	Linking cognitive abilities with the propensity for risk-taking: the balloon analogue risk task. Neurological Sciences, 2016, 37, 2003-2007.	0.9	4
79	Altered Proprioceptive Feedback Influences Movement Kinematics in a Lifting Task. , 2020, 2020, 3232-3235.		4
80	Behavioral and Physiological Evidence of a favored Hand Posture in the Body Representation for Action. Cerebral Cortex, 2021, 31, 3299-3310.	1.6	4
81	Preliminary investigations on laminin coatings for flexible polyimide/platinum thin films for PNS applications. , 2010, 2010, 1527-30.		3
82	Hot spot hound: A novel robot-assisted platform for enhancing TMS performance. , 2013, 2013, 6301-4.		3
83	Evaluation of Hand-Eye and Robot-World Calibration Algorithms for TMS Application. , 2018, 2018, 1115-1119.		3
84	Design of a Wearable Mechatronic Device to Measure the Wrist Rigidity in Parkinson's Disease Patients. , 2018, , .		3
85	Flexion-Extension Wrist Impedance Estimation Using a Novel Portable Wrist Exoskeleton: a Pilot Study. , 2020, , .		3
86	Conceptualization of an insect/machine hybrid controller for space applications. , 2008, , .		2
87	Clean-Breathing: a Novel Sensor Fusion Algorithm Based on ICA to Remove Motion Artifacts from Breathing Signal. , 2020, , .		2
88	Embodying melody through a conducting baton: a pilot comparison between musicians and non-musicians. Experimental Brain Research, 2020, 238, 2279-2291.	0.7	2
89	â€˜I see colors when I touch themâ€™. Color agnosia with visuo-tactile facilitation in a patient with posterior cortical atrophy. Clinical Neurology and Neurosurgery, 2020, 192, 105747.	0.6	2
90	Developments towards a Psychophysical Testing Platform - A Computerized Tool to Control, Deliver and Evaluate Electrical Stimulation to Relieve Phantom Limb Pain. IFMBE Proceedings, 2011, , 137-140.	0.2	2

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91	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	2
92	Design of multiâ€pad electrotactile system envisioned as a feedback channel for supernumerary robotic limbs. Artificial Organs, 0, , .	1.0	2
93	A virtual reality platform for multisensory integration studies. , 2020, 2020, 3244-3247.		1
94	Respiratory Rate Estimation During Walking/Running Activities Using Principal Components Estimated from Signals Recorded by a Smart Garment Embedding Piezoresistive Sensors. , 2021, , .		1
95	Targeted muscle reinnervation for improved control of myoelectric upper limb prostheses. Journal of Biological Regulators and Homeostatic Agents, 2017, 31, .	0.7	1
96	Osseointegration for lower and upper-limb amputation a systematic review of clinical outcomes and complications. Journal of Biological Regulators and Homeostatic Agents, 2020, 34, 315-326. Congress of the Italian Orthopaedic Resea.	0.7	1
97	Chapter 3 Interfacing Insect Brain for Space Applications. International Review of Neurobiology, 2009, 86, 39-47.	0.9	0
98	The illusion box of Syndactyly: Setup and ad hoc algorithm to induce virtual fingers webbing. , 2013, , .		0
99	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. Clinical Neurophysiology, 2014, 125, S99.	0.7	0
100	Manipulating The Body Representation: Assessment Of A Novel Platform. , 2020, 2020, 3248-3251.		0
101	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	0
102	Cronobacter sakazakii DNA Detection in Cerebrospinal Fluid of a Patient with Amyotrophic Lateral Sclerosis Mimic Syndrome. Case Reports in Neurology, 2015, 7, 238-241.	0.3	0
103	Embodying an Artificial Hand Increases Blood Flow to the Investigated Limb. SSRN Electronic Journal, 0, , .	0.4	0
104	Embodying an artificial hand increases blood flow to the investigated limb. Open Research Europe, 0, 1, 55.	2.0	0