

Marco Capogrosso

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

5,011
citations

304368

22
h-index

414034

32
g-index

44
all docs

44
docs citations

44
times ranked

5031
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis. <i>Nature Medicine</i> , 2022, 28, 260-271.	15.2	174
2	Preferential activation of proprioceptive and cutaneous sensory fibers compared to motor fibers during cervical transcutaneous spinal cord stimulation: A computational study. <i>Journal of Neural Engineering</i> , 2022, , .	1.8	11
3	Poststroke arm and hand paresis: should we target the cervical spinal cord?. <i>Trends in Neurosciences</i> , 2022, 45, 568-578.	4.2	12
4	Epidural electrical stimulation of the cervical dorsal roots restores voluntary upper limb control in paralyzed monkeys. <i>Nature Neuroscience</i> , 2022, 25, 924-934.	7.1	30
5	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. <i>Nature</i> , 2021, 590, 308-314.	13.7	96
6	Recruitment of upper-limb motoneurons with epidural electrical stimulation of the cervical spinal cord. <i>Nature Communications</i> , 2021, 12, 435.	5.8	92
7	A Computational Model of the Interaction Between Residual Cortico-Spinal Inputs and Spinal Cord Stimulation After Paralysis. , 2021, , .		2
8	Motor improvements enabled by spinal cord stimulation combined with physical training after spinal cord injury: review of experimental evidence in animals and humans. <i>Bioelectronic Medicine</i> , 2021, 7, 16.	1.0	25
9	Intrafascicular peripheral nerve stimulation produces fine functional hand movements in primates. <i>Science Translational Medicine</i> , 2021, 13, eabg6463.	5.8	30
10	Bayesian optimization of peripheral intraneural stimulation protocols to evoke distal limb movements. <i>Journal of Neural Engineering</i> , 2021, 18, 066046.	1.8	9
11	Spatiotemporal Maps of Proprioceptive Inputs to the Cervical Spinal Cord During Three-Dimensional Reaching and Grasping. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1668-1677.	2.7	8
12	Biophysics of Temporal Interference Stimulation. <i>Cell Systems</i> , 2020, 11, 557-572.e5.	2.9	78
13	Bioelectronic Interfaces: Soft, Implantable Bioelectronic Interfaces for Translational Research (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> 11.1		4
14	A computational outlook on neurostimulation. <i>Bioelectronic Medicine</i> , 2020, 6, 10.	1.0	20
15	Soft, Implantable Bioelectronic Interfaces for Translational Research. <i>Advanced Materials</i> , 2020, 32, e1906512.	11.1	67
16	Microneurography as a tool to develop decoding algorithms for peripheral neuro-controlled hand prostheses. <i>BioMedical Engineering OnLine</i> , 2019, 18, 44.	1.3	10
17	Anatomically Realistic Computational Model to Assess the Specificity of Epidural Electrical Stimulation of the Cervical Spinal Cord. <i>Biosystems and Biorobotics</i> , 2019, , 44-48.	0.2	3
18	Advantages of soft subdural implants for the delivery of electrochemical neuromodulation therapies to the spinal cord. <i>Journal of Neural Engineering</i> , 2018, 15, 026024.	1.8	41

#	ARTICLE	IF	CITATIONS
19	Closed-loop control of trunk posture improves locomotion through the regulation of leg proprioceptive feedback after spinal cord injury. <i>Scientific Reports</i> , 2018, 8, 76.	1.6	30
20	Selective Recruitment of Arm Motoneurons in Nonhuman Primates Using Epidural Electrical Stimulation of the Cervical Spinal Cord. , 2018, 2018, 1424-1427.		10
21	Long-term functionality of a soft electrode array for epidural spinal cord stimulation in a minipig model. , 2018, 2018, 1432-1435.		8
22	Targeted neurotechnology restores walking in humans with spinal cord injury. <i>Nature</i> , 2018, 563, 65-71.	13.7	708
23	Electrical spinal cord stimulation must preserve proprioception to enable locomotion in humans with spinal cord injury. <i>Nature Neuroscience</i> , 2018, 21, 1728-1741.	7.1	247
24	Configuration of electrical spinal cord stimulation through real-time processing of gait kinematics. <i>Nature Protocols</i> , 2018, 13, 2031-2061.	5.5	96
25	A multidirectional gravity-assist algorithm that enhances locomotor control in patients with stroke or spinal cord injury. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	42
26	A Computational Framework for the Design of Spinal Neuroprostheses. <i>Biosystems and Biorobotics</i> , 2017, , 23-27.	0.2	0
27	A brain-spine interface alleviating gait deficits after spinal cord injury in primates. <i>Nature</i> , 2016, 539, 284-288.	13.7	492
28	Spatiotemporal neuromodulation therapies engaging muscle synergies improve motor control after spinal cord injury. <i>Nature Medicine</i> , 2016, 22, 138-145.	15.2	274
29	Mechanisms Underlying the Neuromodulation of Spinal Circuits for Correcting Gait and Balance Deficits after Spinal Cord Injury. <i>Neuron</i> , 2016, 89, 814-828.	3.8	144
30	Chronic multichannel neural recordings from soft regenerative microchannel electrodes during gait. <i>Scientific Reports</i> , 2015, 5, 14363.	1.6	59
31	Electronic dura mater for long-term multimodal neural interfaces. <i>Science</i> , 2015, 347, 159-163.	6.0	845
32	Neuroprosthetic technologies to augment the impact of neurorehabilitation after spinal cord injury. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 232-237.	1.1	26
33	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. <i>Science Translational Medicine</i> , 2014, 6, 222ra19.	5.8	805
34	A Computational Model for Epidural Electrical Stimulation of Spinal Sensorimotor Circuits. <i>Journal of Neuroscience</i> , 2013, 33, 19326-19340.	1.7	320
35	Experimental Validation of a Hybrid Computational Model for Selective Stimulation Using Transverse Intrafascicular Multichannel Electrodes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 395-404.	2.7	53
36	A Computational Model for the Stimulation of Rat Sciatic Nerve Using a Transverse Intrafascicular Multichannel Electrode. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2011, 19, 333-344.	2.7	97