

Francesco Clemente

List of Publications by Year in descending order

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29
papers

1,331
citations

471509

17
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

1099
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic Intraneural Sensory Feedback Enhances Sensation Naturalness, Tactile Sensitivity, and Manual Dexterity in a Bidirectional Prosthesis. <i>Neuron</i> , 2018, 100, 37-45.e7.	8.1	265
2	Non-Invasive, Temporally Discrete Feedback of Object Contact and Release Improves Grasp Control of Closed-Loop Myoelectric Transradial Prostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 1314-1322.	4.9	170
3	Six-Month Assessment of a Hand Prosthesis with Intraneural Tactile Feedback. <i>Annals of Neurology</i> , 2019, 85, 137-154.	5.3	140
4	Vibrotactile Stimulation Promotes Embodiment of an Alien Hand in Amputees With Phantom Sensations. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 450-457.	4.9	94
5	The SSSA-MyHand: A Dexterous Lightweight Myoelectric Hand Prosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 459-468.	4.9	94
6	Humans can integrate feedback of discrete events in their sensorimotor control of a robotic hand. <i>Experimental Brain Research</i> , 2014, 232, 3421-3429.	1.5	70
7	Intraneural sensory feedback restores grip force control and motor coordination while using a prosthetic hand. <i>Journal of Neural Engineering</i> , 2019, 16, 026034.	3.5	66
8	Neural feedback strategies to improve grasping coordination in neuromusculoskeletal prostheses. <i>Scientific Reports</i> , 2020, 10, 11793.	3.3	49
9	Grip control and motor coordination with implanted and surface electrodes while grasping with an osseointegrated prosthetic hand. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 49.	4.6	44
10	The myokinetic control interface: tracking implanted magnets as a means for prosthetic control. <i>Scientific Reports</i> , 2017, 7, 17149.	3.3	42
11	Humans Can Integrate Augmented Reality Feedback in Their Sensorimotor Control of a Robotic Hand. <i>IEEE Transactions on Human-Machine Systems</i> , 2017, 47, 583-589.	3.5	42
12	Discrete Vibro-Tactile Feedback Prevents Object Slippage in Hand Prostheses More Intuitively Than Other Modalities. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1577-1584.	4.9	36
13	Grasp force estimation from the transient EMG using high-density surface recordings. <i>Journal of Neural Engineering</i> , 2020, 17, 016052.	3.5	32
14	Hand Control With Invasive Feedback Is Not Impaired by Increased Cognitive Load. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 287.	4.1	31
15	Touch and Hearing Mediate Osseoperception. <i>Scientific Reports</i> , 2017, 7, 45363.	3.3	22
16	Online Grasp Force Estimation From the Transient EMG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2333-2341.	4.9	21
17	Feasibility of Tracking Multiple Implanted Magnets With a Myokinetic Control Interface: Simulation and Experimental Evidence Based on the Point Dipole Model. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1282-1292.	4.2	20
18	Development of an Embedded Myokinetic Prosthetic Hand Controller. <i>Sensors</i> , 2019, 19, 3137.	3.8	13

#	ARTICLE	IF	CITATIONS
19	The preload force affects the perception threshold of muscle vibration-induced movement illusions. <i>Experimental Brain Research</i> , 2019, 237, 111-120.	1.5	12
20	Localization accuracy of multiple magnets in a myokinetic control interface. <i>Scientific Reports</i> , 2021, 11, 4850.	3.3	11
21	The Myokinetic Control Interface: How Many Magnets Can be Implanted in an Amputated Forearm? Evidence From a Simulated Environment. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2451-2458.	4.9	10
22	A cosmetic prosthetic digit with bioinspired embedded touch feedback. , 2017, 2017, 1136-1141.		8
23	A novel device for multi-modal sensory feedback in hand prosthetics: Design and preliminary prototype. , 2014, , .		7
24	Intracortical Microstimulation Feedback Improves Grasp Force Accuracy in a Human Using a Brain-Computer Interface. , 2020, 2020, 3355-3358.		7
25	Proprioceptive Augmentation With Illusory Kinaesthetic Sensation in Stroke Patients Improves Movement Quality in an Active Upper Limb Reach-and-Point Task. <i>Frontiers in Neurorobotics</i> , 2021, 15, 610673.	2.8	7
26	Effects of Sensor Resolution and Localization Rate on the Performance of a Myokinetic Control Interface. <i>IEEE Sensors Journal</i> , 2021, 21, 22603-22611.	4.7	6
27	Feasibility of generating 90ÂHz vibrations in remote implanted magnets. <i>Scientific Reports</i> , 2021, 11, 15456.	3.3	5
28	Grasp Force Estimation from HD-EMG Recordings with Channel Selection Using Elastic Nets: Preliminary Study. , 2018, , .		3
29	The myokinetic stimulation interface: activation of proprioceptive neural responses with remotely actuated magnets implanted in rodent forelimb muscle. <i>Journal of Neural Engineering</i> , 2022, 19, 026048.	3.5	3