

Emanuela Formaggio

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,528
citations

279701

23
h-index

345118

36
g-index

65
all docs

65
docs citations

65
times ranked

2227
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of event-related desynchronization in robot-assisted hand performance: brain oscillatory changes in active, passive and imagined movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 24.	2.4	94
2	Brain oscillatory activity during motor imagery in EEG-fMRI coregistration. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1403-1412.	1.0	79
3	EEG and fMRI Coregistration to Investigate the Cortical Oscillatory Activities During Finger Movement. <i>Brain Topography</i> , 2008, 21, 100-111.	0.8	73
4	Behavioral and Neurophysiological Effects of Repetitive Transcranial Magnetic Stimulation on the Minimally Conscious State. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 98-102.	1.4	70
5	Neurophysiological, psychological and behavioural correlates of rTMS treatment in alcohol dependence. <i>Drug and Alcohol Dependence</i> , 2016, 158, 147-153.	1.6	70
6	Personalized transcranial alternating current stimulation (tACS) and physical therapy to treat motor and cognitive symptoms in Parkinson's disease: A randomized cross-over trial. <i>NeuroImage: Clinical</i> , 2019, 22, 101768.	1.4	69
7	Effect of High-Frequency Repetitive Transcranial Magnetic Stimulation on Brain Excitability in Severely Brain-Injured Patients in Minimally Conscious or Vegetative State. <i>Brain Stimulation</i> , 2013, 6, 913-921.	0.7	67
8	Combining ESI, ASL and PET for quantitative assessment of drug-resistant focal epilepsy. <i>NeuroImage</i> , 2014, 102, 49-59.	2.1	57
9	Coherence and Consciousness: Study of Fronto-Parietal Gamma Synchrony in Patients with Disorders of Consciousness. <i>Brain Topography</i> , 2015, 28, 570-579.	0.8	48
10	Behavioural and electrophysiological effects of tDCS to prefrontal cortex in patients with disorders of consciousness. <i>Clinical Neurophysiology</i> , 2019, 130, 231-238.	0.7	48
11	Integrating EEG and fMRI in epilepsy. <i>NeuroImage</i> , 2011, 54, 2719-2731.	2.1	46
12	Patient-Specific Detection of Cerebral Blood Flow Alterations as Assessed by Arterial Spin Labeling in Drug-Resistant Epileptic Patients. <i>PLoS ONE</i> , 2015, 10, e0123975.	1.1	41
13	Quantitative EEG Evaluation During Robot-Assisted Foot Movement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1633-1640.	2.7	41
14	Quantification of Upper Limb Motor Recovery and EEG Power Changes after Robot-Assisted Bilateral Arm Training in Chronic Stroke Patients: A Prospective Pilot Study. <i>Neural Plasticity</i> , 2018, 2018, 1-15.	1.0	40
15	Automatic selection of resting-state networks with functional magnetic resonance imaging. <i>Frontiers in Neuroscience</i> , 2013, 7, 72.	1.4	38
16	Time-Frequency Modulation of ERD and EEG Coherence in Robot-Assisted Hand Performance. <i>Brain Topography</i> , 2015, 28, 352-363.	0.8	36
17	Investigation of brain hemodynamic changes induced by active and passive movements: A combined arterial spin labeling-BOLD fMRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 937-948.	1.9	32
18	Continuous EEG-fMRI in patients with partial epilepsy and focal interictal slow-wave discharges on EEG. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1089-1100.	1.0	31

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19	Time-frequency analysis of short-lasting modulation of EEG induced by TMS during wake, sleep deprivation and sleep. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 767.	1.0	29
20	Changes in cerebral activity after decreased upper-limb hypertonus: an EMG-fMRI study. <i>Magnetic Resonance Imaging</i> , 2010, 28, 646-652.	1.0	28
21	Time-frequency analysis of short-lasting modulation of EEG induced by intracortical and transcallosal paired TMS over motor areas. <i>Journal of Neurophysiology</i> , 2012, 107, 2475-2484.	0.9	27
22	Effect of median-nerve electrical stimulation on BOLD activity in acute ischemic stroke patients. <i>Clinical Neurophysiology</i> , 2012, 123, 142-153.	0.7	25
23	Wavelet Analysis as a Tool for Investigating Movement-Related Cortical Oscillations in EEG-fMRI Coregistration. <i>Brain Topography</i> , 2010, 23, 46-57.	0.8	24
24	Steady-state activation in somatosensory cortex after changes in stimulus rate during median nerve stimulation. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1175-1186.	1.0	23
25	A multimodal imaging approach to the evaluation of post-traumatic epilepsy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 345-360.	1.1	23
26	Modelling hemodynamic response function in epilepsy. <i>Clinical Neurophysiology</i> , 2013, 124, 2108-2118.	0.7	23
27	Frequency and time-frequency analysis of intraoperative ECoG during awake brain stimulation. <i>Frontiers in Neuroengineering</i> , 2013, 6, 1.	4.8	22
28	Corticospinal excitability in human subjects during nonrapid eye movement sleep: single and paired-pulse transcranial magnetic stimulation study. <i>Experimental Brain Research</i> , 2008, 187, 17-23.	0.7	20
29	Magnetoencephalography in Stroke Recovery and Rehabilitation. <i>Frontiers in Neurology</i> , 2016, 7, 35.	1.1	20
30	Assessment of Event-Related EEG Power After Single-Pulse TMS in Unresponsive Wakefulness Syndrome and Minimally Conscious State Patients. <i>Brain Topography</i> , 2016, 29, 322-333.	0.8	20
31	Cortical correlates in upright dynamic and static balance in the elderly. <i>Scientific Reports</i> , 2021, 11, 14132.	1.6	20
32	Brain Network Connectivity and Topological Analysis During Voluntary Arm Movements. <i>Clinical EEG and Neuroscience</i> , 2016, 47, 276-290.	0.9	17
33	Brain Connectivity Modulation After Exoskeleton-Assisted Gait in Chronic Hemiplegic Stroke Survivors. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2020, 99, 694-700.	0.7	16
34	Beyond physiotherapy and pharmacological treatment for fibromyalgia syndrome: tailored tACS as a new therapeutic tool. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2021, 271, 199-210.	1.8	16
35	Muscular and cortical activation during dynamic and static balance in the elderly: A scoping review. <i>Aging Brain</i> , 2021, 1, 100013.	0.7	16
36	The gating role of the thalamus to protect sleep: An f-MRI report. <i>Sleep Medicine</i> , 2012, 13, 447-449.	0.8	14

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37	Electroencephalographic Changes of Brain Oscillatory Activity After Upper Limb Somatic Sensation Training in a Patient With Somatosensory Deficit After Stroke. <i>Clinical EEG and Neuroscience</i> , 2015, 46, 347-352.	0.9	14
38	Natural oscillation frequencies in the two lateral prefrontal cortices induced by Transcranial Magnetic Stimulation. <i>NeuroImage</i> , 2021, 227, 117655.	2.1	14
39	EEG-fMRI coregistration in non-ketotic hyperglycemic occipital seizures. <i>Epilepsy Research</i> , 2009, 85, 321-324.	0.8	11
40	EEG-fMRI as an useful tool to detect epileptic foci associated with secondary bilateral synchrony. Seizure: the Journal of the British Epilepsy Association, 2010, 19, 605-608.	0.9	10
41	Tracking EEG changes during the exposure to hyperbaric oxygen. <i>Clinical Neurophysiology</i> , 2015, 126, 339-347.	0.7	10
42	EEG Fractal Analysis Reflects Brain Impairment after Stroke. <i>Entropy</i> , 2021, 23, 592.	1.1	10
43	Experimental Protocol to Assess Neuromuscular Plasticity Induced by an Exoskeleton Training Session. <i>Methods and Protocols</i> , 2021, 4, 48.	0.9	10
44	Bluetooth Communication Interface for EEG Signal Recording in Hyperbaric Chambers. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 538-547.	2.7	7
45	Spatial and Temporal EEG-fMRI Changes During Preictal and Postictal Phases in a Patient With Posttraumatic Epilepsy. <i>Clinical EEG and Neuroscience</i> , 2015, 46, 247-252.	0.9	7
46	Neurophysiological and BOLD signal uncoupling of giant somatosensory evoked potentials in progressive myoclonic epilepsy: a case-series study. <i>Scientific Reports</i> , 2017, 7, 44664.	1.6	7
47	The potential role of pain-related SSEPs in the early prognostication of long-term functional outcome in post-anoxic coma. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2017, 53, 883-891.	1.1	7
48	Lack of inter-muscular coherence of axial muscles in Pisa syndrome. <i>Neurological Sciences</i> , 2019, 40, 1465-1468.	0.9	7
49	Hemoglobin Concentration Affects Electroencephalogram During Cardiopulmonary Bypass: An Indication for Neuroprotective Values. <i>Artificial Organs</i> , 2016, 40, 169-175.	1.0	6
50	EEG to Identify Attempted Movement in Unresponsive Wakefulness Syndrome. <i>Clinical EEG and Neuroscience</i> , 2020, 51, 339-347.	0.9	6
51	Reduced Effective Connectivity in the Motor Cortex in Parkinson's Disease. <i>Brain Sciences</i> , 2021, 11, 1200.	1.1	6
52	Highly focal BOLD activation on functional MRI in a patient with progressive myoclonic epilepsy and diffuse giant somatosensory evoked potentials. <i>Epilepsy and Behavior</i> , 2011, 20, 579-582.	0.9	4
53	Effect of voluntary repetitive long-lasting muscle contraction activity on the BOLD signal as assessed by optimal hemodynamic response function. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 171-184.	1.1	4
54	Alterations of source and connectivity EEG patterns under simulated deep-SEA condition. , 2015, , .		4

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55	How Expertise Changes Cortical Sources of EEG Rhythms and Functional Connectivity in Divers Under Simulated Deep-Sea Conditions. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 450-456.	2.7	4
56	Reproducibility of EEG-fMRI Results in a Patient With Fixation-Off Sensitivity. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 212-217.	0.9	3
57	Stuttering-like hesitation in speech during acute/post-acute phase of immune-mediated encephalitis. <i>Journal of Fluency Disorders</i> , 2018, 58, 70-76.	0.7	3
58	Oscillatory EEG-TMS Reactivity in Parkinson Disease. <i>Journal of Clinical Neurophysiology</i> , 2023, 40, 263-268.	0.9	3
59	Cortical network modulation during paced arm movements. , 2015, , .		2
60	Influence of pain-related psychological factors on therapeutic outcomes in patients with chronic low back pain after oxygen-ozone treatment: a case-series. <i>European Journal of Translational Myology</i> , 2021, 31, .	0.8	2
61	Fractal Analysis of Lower Back Acceleration Profiles in balance tasks. , 2021, 2021, 7381-7384.		2
62	Sleep brain networks and sleep depth during somatosensory stimulation. <i>Sleep Medicine</i> , 2015, 16, 202-204.	0.8	1
63	Neurophysiological Evidence of Motor Network Reorganization in Myotonic Dystrophy Type 1. <i>Journal of Clinical Neurophysiology</i> , 2019, 36, 74-81.	0.9	1
64	Age-related differences in visual P300 ERP during dual-task postural balance. , 2021, 2021, 6511-6514.		0