Filippo Zappasodi

List of Publications by Year
in descending order

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93	4,064	87723	133063
papers	citations	38 h-index	59 g-index

95	95	95	4813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of an independent component analysis approach for artifact identification and removal in magnetoencephalographic signals. Clinical Neurophysiology, 2004, 115, 1220-1232.	0.7	259
2	Mapping distributed sources of cortical rhythms in mild Alzheimer's disease. A multicentric EEG study. NeuroImage, 2004, 22, 57-67.	2.1	253
3	Frontal white matter volume and delta EEG sources negatively correlate in awake subjects with mild cognitive impairment and Alzheimer's disease. Clinical Neurophysiology, 2006, 117, 1113-1129.	0.7	150
4	Deep learning for hybrid EEG-fNIRS brainâ€“computer interface: application to motor imagery classification. Journal of Neural Engineering, 2018, 15, 036028.	1.8	135
5	Estimating true brain connectivity from EEG/MEG data invariant to linear and static transformations in sensor space. NeuroImage, 2012, 60, 476-488.	2.1	128
6	Fractal Dimension of EEG Activity Senses Neuronal Impairment in Acute Stroke. PLoS ONE, 2014, 9, e100199.	1.1	127
7	Impact of the reference choice on scalp EEG connectivity estimation. Journal of Neural Engineering, 2016, 13, 036016.	1.8	114
8	Anodal Transcranial Direct Current Stimulation Enhances Procedural Consolidation. Journal of Neurophysiology, 2010, 104, 1134-1140.	0.9	106
9	Inhibition of auditory cortical responses to ipsilateral stimuli during dichotic listening: evidence from magnetoencephalography. European Journal of Neuroscience, 2004, 19, 2329-2336.	1.2	90
10	Auditory sensory processing in autism: a magnetoencephalographic study. Biological Psychiatry, 2003, 54, 647-654.	0.7	89
11	Brain plasticity in recovery from stroke: An MEG assessment. NeuroImage, 2006, 32, 1326-1334.	2.1	84
12	Age-Related Changes in Electroencephalographic Signal Complexity. PLoS ONE, 2015, 10, e0141995.	1.1	74
13	Brain activity preceding a 2D manual catching task. NeuroImage, 2009, 47, 1735-1746.	2.1	72
14	Rhythmic brain activity at rest from rolandic areas in acute mono-hemispheric stroke: A magnetoencephalographic study. NeuroImage, 2005, 28, 72-83.	2.1	69
15	Local and remote effects of transcranial direct current stimulation on the electrical activity of the motor cortical network. Human Brain Mapping, 2014, 35, 2220-2232.	1.9	67
16	Comparison of connectivity analyses for resting state EEG data. Journal of Neural Engineering, 2017, 14, 036017.	1.8	66
17	Hemispheric asymmetries and emotions: Evidence from effective connectivity. Neuropsychologia, 2018, 121, 98-105.	0.7	66
18	Developmental Tuning and Decay in Senescence of Oscillations Linking the Corticospinal System. Journal of Neuroscience, 2010, 30, 3663-3674.	1.7	65

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19	Prognostic Value of EEG Microstates in Acute Stroke. Brain Topography, 2017, 30, 698-710.	0.8	65
20	Free copper and resting temporal EEG rhythms correlate across healthy, mild cognitive impairment, and Alzheimerâ€™s disease subjects. Clinical Neurophysiology, 2007, 118, 1244-1260.	0.7	58
21	High-gamma band activity of primary hand cortical areas: A sensorimotor feedback efficiency index. NeuroImage, 2008, 40, 256-264.	2.1	57
22	Synchronous with Your Feelings: Sensorimotor Î³ Band and Empathy for Pain. Journal of Neuroscience, 2009, 29, 12384-12392.	1.7	56
23	Detection of fetal auditory evoked responses by means of magnetoencephalography. Brain Research, 2001, 917, 167-173.	1.1	55
24	Cortical Neuromodulation Modifies Cerebral Vasomotor Reactivity. Stroke, 2010, 41, 2087-2090.	1.0	54
25	Outcome prediction in acute monohemispheric stroke via magnetoencephalography. Journal of Neurology, 2007, 254, 296-305.	1.8	53
26	Hand somatosensory subcortical and cortical sources assessed by functional source separation: An EEG study. Human Brain Mapping, 2009, 30, 660-674.	1.9	53
27	Neuroprotective effect of cathodal transcranial direct current stimulation in a rat stroke model. Journal of the Neurological Sciences, 2014, 342, 146-151.	0.3	50
28	EEG microstates associated with intra- and inter-subject alpha variability. Scientific Reports, 2020, 10, 2469.	1.6	50
29	Cortical short-term fatigue effects assessed via rhythmic brainâ€“muscle coherence. Experimental Brain Research, 2006, 174, 144-151.	0.7	49
30	Functional source separation from magnetoencephalographic signals. Human Brain Mapping, 2006, 27, 925-934.	1.9	49
31	Choice of multivariate autoregressive model order affecting real network functional connectivity estimate. Clinical Neurophysiology, 2009, 120, 436-448.	0.7	47
32	Magnetoencephalographic alpha band connectivity reveals differential default mode network interactions during focused attention and open monitoring meditation. Frontiers in Human Neuroscience, 2014, 8, 832.	1.0	47
33	The cerebral correlates of subliminal emotions: an electroencephalographic study with emotional hybrid faces. European Journal of Neuroscience, 2015, 42, 2952-2962.	1.2	47
34	Fetal auditory responses to external sounds and mother's heart beat: Detection improved by Independent Component Analysis. Brain Research, 2006, 1101, 51-58.	1.1	45
35	Functional source separation and hand cortical representation for a brain-computer interface feature extraction. Journal of Physiology, 2007, 580, 703-721.	1.3	45
36	Intra-cortical connectivity in multiple sclerosis: a neurophysiological approach. Brain, 2008, 131, 1783-1792.	3.7	45

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37	Hand cortical representation at rest and during activation: Gender and age effects in the two hemispheres. Clinical Neurophysiology, 2006, 117, 1518-1528.	0.7	43
38	Contrasting hemispheric asymmetries for emotional processing from event-related potentials and behavioral responses.. Neuropsychology, 2018, 32, 317-328.	1.0	43
39	An observational study on the influence of the APOE-Îµ4 allele on the correlation between â€˜freeâ€™ copper toxicosis and EEG activity in Alzheimer disease. Brain Research, 2008, 1215, 183-189.	1.1	39
40	Neuronal functionality assessed by magnetoencephalography is related to oxidative stress system in acute ischemic stroke. NeuroImage, 2009, 44, 1267-1273.	2.1	39
41	Thalamocortical sensorimotor circuit in multiple sclerosis: An integrated structural and electrophysiological assessment. Human Brain Mapping, 2010, 31, 1588-1600.	1.9	39
42	Hand sensoryâ€“motor cortical network assessed by functional source separation. Human Brain Mapping, 2008, 29, 70-81.	1.9	37
43	Combined Analysis of Cortical (EEG) and Nerve Stump Signals Improves Robotic Hand Control. Neurorehabilitation and Neural Repair, 2012, 26, 275-281.	1.4	37
44	EEG microstates distinguish between cognitive components of fluid reasoning. NeuroImage, 2019, 189, 560-573.	2.1	37
45	Local Use-Dependent Sleep in Wakefulness Links Performance Errors to Learning. Frontiers in Human Neuroscience, 2018, 12, 122.	1.0	36
46	Alpha rhythms in mild dements during visual delayed choice reaction time tasks: A MEG study. Brain Research Bulletin, 2005, 65, 457-470.	1.4	35
47	Oxidative stress and brain glutamate-mediated excitability in depressed patients. Journal of Affective Disorders, 2010, 127, 321-325.	2.0	35
48	Offline stimulation of human parietal cortex differently affects resting EEG microstates. Scientific Reports, 2018, 8, 1287.	1.6	32
49	Circadian Rhythms in Fractal Features of EEG Signals. Frontiers in Physiology, 2018, 9, 1567.	1.3	32
50	Brain sensorimotor hand area functionality in acute stroke: insights from magnetoencephalography. NeuroImage, 2004, 23, 542-550.	2.1	30
51	Euthymic bipolar disorder patients and EEG microstates: a neural signature of their abnormal self experience?. Journal of Affective Disorders, 2020, 272, 326-334.	2.0	30
52	Somatosensory dynamic gamma-band synchrony: A neural code of sensorimotor dexterity. NeuroImage, 2007, 35, 185-193.	2.1	27
53	Gamma synchronization in human primary somatosensory cortex as revealed by somatosensory evoked neuromagnetic fields. Brain Research, 2003, 986, 63-70.	1.1	26
54	Environmental noise-exposed workers: Event-related potentials, neuropsychological and mood assessment. International Journal of Psychophysiology, 2007, 65, 228-237.	0.5	26

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55	Primary sensory and motor cortex activities during voluntary and passive ankle mobilization by the SHADE orthosis. Human Brain Mapping, 2011, 32, 60-70.	1.9	24
56	Individual Alpha Frequency Predicts Perceived Visuotactile Simultaneity. Journal of Cognitive Neuroscience, 2020, 32, 1-11.	1.1	24
57	Transcutaneous Vagus Nerve Stimulation Modulates EEG Microstates and Delta Activity in Healthy Subjects. Brain Sciences, 2020, 10, 668.	1.1	24
58	Delta dipole density and strength in acute monohemispheric stroke. Neuroscience Letters, 2007, 416, 310-314.	1.0	23
59	Data-driven assessment of cardiovascular ageing through multisite photoplethysmography and electrocardiography. Medical Engineering and Physics, 2019, 73, 39-50.	0.8	23
60	Resilience and cross-network connectivity: A neural model for post-trauma survival. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 77, 110-119.	2.5	22
61	Electroencephalography-Derived Prognosis of Functional Recovery in Acute Stroke Through Machine Learning Approaches. International Journal of Neural Systems, 2020, 30, 2050067.	3.2	22
62	Neural connectivity in hand sensorimotor brain areas: An evaluation by evoked field morphology. Human Brain Mapping, 2005, 24, 99-108.	1.9	21
63	Do You Know What I Mean? Brain Oscillations and the Understanding of Communicative Intentions. Frontiers in Human Neuroscience, 2014, 8, 36.	1.0	21
64	Hilbert spectral analysis of EEG data reveals spectral dynamics associated with microstates. Journal of Neuroscience Methods, 2019, 325, 108317.	1.3	21
65	Bispectral pairwise interacting source analysis for identifying systems of cross-frequency interacting brain sources from electroencephalographic or magnetoencephalographic signals. Physical Review E, 2016, 93, 052420.	0.8	20
66	Cortical excitability and rest activity properties in patients with depression. Journal of Psychiatry and Neuroscience, 2007, 32, 259-66.	1.4	19
67	Biological factors and age-dependence of primary motor cortex experimental plasticity. Neurological Sciences, 2016, 37, 211-218.	0.9	17
68	Magnetic stimulation selectively affects pre-stimulus EEG microstates. NeuroImage, 2018, 176, 239-245.	2.1	17
69	Pre-stimulus EEG Microstates Correlate With Anticipatory Alpha Desynchronization. Frontiers in Human Neuroscience, 2020, 14, 182.	1.0	15
70	Longitudinal quantitative electroencephalographic study in mono-hemispheric stroke patients. Neural Regeneration Research, 2019, 14, 1237.	1.6	15
71	Machine learning for predicting levetiracetam treatment response in temporal lobe epilepsy. Clinical Neurophysiology, 2021, 132, 3035-3042.	0.7	15
72	Magnetoencephalography in the study of brain dynamics. Functional Neurology, 2014, 29, 241-53.	1.3	15

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73	Redundancy as a Graph-Based Index of Frequency Specific MEG Functional Connectivity. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-9.	0.7	14
74	Characterization of the Functional Dynamics in the Neonatal Brain during REM and NREM Sleep States by means of Microstate Analysis. Brain Topography, 2021, 34, 555-567.	0.8	14
75	Exploring brain activity for positive and negative emotions by means of EEG microstates. Scientific Reports, 2022, 12, 3404.	1.6	14
76	District-related frequency specificity in hand cortical representation: dynamics of regional activation and intra-regional synchronization. Brain Research, 2004, 1014, 80-86.	1.1	13
77	Prognostic Value of Serum Copper for Post-Stroke Clinical Recovery: A Pilot Study. Frontiers in Neurology, 2018, 9, 333.	1.1	12
78	Acute Phase Neuronal Activity for the Prognosis of Stroke Recovery. Neural Plasticity, 2019, 2019, 1-10.	1.0	11
79	Contingent Negative Variation in the Parasylvian Cortex Increases During Expectancy of Painful Sensorimotor Events: A Magnetoencephalographic Study.. Behavioral Neuroscience, 2005, 119, 491-502.	0.6	9
80	Safety and effects on motor cortex excitability of five cathodal transcranial direct current stimulation sessions in 25 hours. Neurophysiologie Clinique, 2018, 48, 77-87.	1.0	9
81	Safety and effects on motor cortex excitability of five anodal transcranial direct current stimulation sessions in 24 hours. Neurophysiologie Clinique, 2019, 49, 19-25.	1.0	8
82	To Be Is To Become. Fractal Neurodynamics of the Body-Brain Control System. Frontiers in Physiology, 2020, 11, 609768.	1.3	8
83	Cortical origin of myoclonus in early stages of corticobasal degeneration. Movement Disorders, 2011, 26, 1567-1569.	2.2	7
84	rTMS affects EEG microstates dynamic during evoked activity. Cortex, 2021, 138, 302-310.	1.1	5
85	Romantic love affects emotional processing of love-unrelated stimuli: An EEG/ERP study using a love induction task. Brain and Cognition, 2021, 151, 105733.	0.8	5
86	The impact of body posture on intrinsic brain activity: The role of beta power at rest. PLoS ONE, 2020, 15, e0218977.	1.1	4
87	Normal Aging: Alterations in Scalp EEG Using Broadband and Band-Resolved Topographic Maps. Frontiers in Physics, 2020, 8, .	1.0	2
88	Automated Detection and Removal of Cardiac and Pulse Interferences from Neonatal EEG Signals. Sensors, 2021, 21, 6364.	2.1	2
89	Inhibition of return in time-lapse: Brain Rhythms during grip force control for spatial attention. Neuropsychologia, 2021, 163, 108068.	0.7	2
90	Auditory discrimination in autistic subjects. NeuroImage, 2001, 13, 1050.	2.1	1

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91	Theta-burst stimulation causally affects side perception in the Deutschâ€™s octave illusion. Scientific Reports, 2018, 8, 12844.	1.6	1
92	Multi-modal factors for recovery prognosis in acute stroke. Aging Clinical and Experimental Research, 2019, 33, 1717-1719.	1.4	1
93	O207 Safety and effects on motor cortex excitability of five closely repeated cathodal transcranial direct current stimulations. Clinical Neurophysiology, 2017, 128, e244-e245.	0.7	0