Camillo Porcaro

List of Publications by Year
in descending order

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87 papers	2,728 citations	147566 31 h-index	223531 46 g-index
101 all docs	101 docs citations	101 times ranked	2663 citing authors

#	Article	IF	Citations
1	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 223-235.	3.3	7
2	Bimodal sensory integration in migraine: A study of the effect of visual stimulation on somatosensory evoked cortical responses. Cephalalgia, 2022, , 033310242210750.	1.8	5
3	Corticomuscular Coherence Dependence on Body Side and Visual Feedback. Neuroscience, 2022, 490, 144-154.	1.1	6
4	Comparing between Different Sets of Preprocessing, Classifiers, and Channels Selection Techniques to Optimise Motor Imagery Pattern Classification System from EEG Pattern Recognition. Brain Sciences, 2022, 12, 57.	1.1	6
5	Dynamics of the â€œCognitiveâ€•Brain Wave P3b at Rest for Alzheimer Dementia Prediction in Mild Cognitive Impairment. International Journal of Neural Systems, 2022, 32, 2250022.	3.2	8
6	Characterizing Fractal Genetic Variation in the Human Genome from the Hapmap Project. International Journal of Neural Systems, 2022, 32, 2250028.	3.2	6
7	Assessing Neurokinematic and Neuromuscular Connectivity During Walking Using Mobile Brain-Body Imaging. Frontiers in Neuroscience, 2022, 16, .	1.4	1
8	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. Brain Sciences, 2021, 11, 75.	1.1	54
9	Role of the Ipsilateral Primary Motor Cortex in the Visuo-Motor Network During Fine Contractions and Accurate Performance. International Journal of Neural Systems, 2021, 31, 2150011.	3.2	11
10	Effects on Motor Control of Personalized Neuromodulation Against Multiple Sclerosis Fatigue. Brain Topography, 2021, 34, 363-372.	0.8	2
11	Electrophysiological Correlates of Virtual-Reality Applications in the Rehabilitation Setting: New Perspectives for Stroke Patients. Electronics (Switzerland), 2021, 10, 836.	1.8	9
12	The Timecourse of Electrophysiological Brainâ€“Heart Interaction in DoC Patients. Brain Sciences, 2021, 11, 750.	1.1	4
13	Thalamo-cortical networks in subtypes of migraine with aura patients. Journal of Headache and Pain, 2021, 22, 58.	2.5	12
14	Hypothalamic structural integrity and temporal complexity of cortical information processing at rest in migraine without aura patients between attacks. Scientific Reports, 2021, 11, 18701.	1.6	11
15	Hemodynamic activity characterization of resting-state networks (RSNS) by fractal analysis in episodic migraine. Journal of the Neurological Sciences, 2021, 429, 117692.	0.3	0
16	Diagnostic Developments in Differentiating Unresponsive Wakefulness Syndrome and the Minimally Conscious State. Frontiers in Neurology, 2021, 12, 778951.	1.1	19
17	Application of wearable EEG sensors for indoor thermal comfort measurements. Acta IMEKO (2012), 2021, 10, 214.	0.4	12
18	A 1D CNN for high accuracy classification and transfer learning in motor imagery EEG-based brain-computer interface. Journal of Neural Engineering, 2021, 18, 066053.	1.8	55

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19	Characterisation of Haemodynamic Activity in Resting State Networks by Fractal Analysis. International Journal of Neural Systems, 2020, 30, 2050061.	3.2	17
20	Frequencyâ€dependent functional connectivity in resting state networks. Human Brain Mapping, 2020, 41, 5187-5198.	1.9	43
21	Haemodynamic activity characterization of resting state networks by fractal analysis and thalamocortical morphofunctional integrity in chronic migraine. Journal of Headache and Pain, 2020, 21, 112.	2.5	18
22	A functional source separation algorithm to enhance error-related potentials monitoring in noninvasive brain-computer interface. Computer Methods and Programs in Biomedicine, 2020, 191, 105419.	2.6	18
23	Hemodynamic Correlates of Electrophysiological Activity in the Default Mode Network. Frontiers in Neuroscience, 2019, 13, 1060.	1.4	42
24	Neurobiological features and response to eye movement desensitization and reprocessing treatment of posttraumatic stress disorder in patients with breast cancer. HÃ¶gre Utbildning, 2019, 10, 1600832.	1.4	13
25	Early and Late Effects of Semantic Distractors on Electroencephalographic Responses During Overt Picture Naming. Frontiers in Psychology, 2019, 10, 696.	1.1	11
26	Cortical neurodynamics changes mediate the efficacy of a personalized neuromodulation against multiple sclerosis fatigue. Scientific Reports, 2019, 9, 18213.	1.6	34
27	Neuronal dynamics enable the functional differentiation of resting state networks in the human brain. Human Brain Mapping, 2019, 40, 1445-1457.	1.9	40
28	Emotional processing in RRMS patients: Dissociation between behavioural and neurophysiological response. Multiple Sclerosis and Related Disorders, 2019, 27, 344-349.	0.9	16
29	P3b amplitude as a signature of cognitive decline in the older population: An EEG study enhanced by Functional Source Separation. NeuroImage, 2019, 184, 535-546.	2.1	46
30	A New, High-Efficacy, Noninvasive Transcranial Electric Stimulation Tuned to Local Neurodynamics. Journal of Neuroscience, 2018, 38, 586-594.	1.7	20
31	Functional Semi-Blind Source Separation Identifies Primary Motor Area Without Active Motor Execution. International Journal of Neural Systems, 2018, 28, 1750047.	3.2	10
32	Personalized, bilateral whole-body somatosensory cortex stimulation to relieve fatigue in multiple sclerosis. Multiple Sclerosis Journal, 2018, 24, 1366-1374.	1.4	51
33	Brain Functional Connectivity Changes After Transcranial Direct Current Stimulation in Epileptic Patients. Frontiers in Neural Circuits, 2018, 12, 44.	1.4	31
34	Adaptive optimal basis set for BCG artifact removal in simultaneous EEG-fMRI. Scientific Reports, 2018, 8, 8902.	1.6	41
35	Impaired brainstem and thalamic high-frequency oscillatory EEG activity in migraine between attacks. Cephalalgia, 2017, 37, 915-926.	1.8	43
36	Electroencephalography-Derived Sensory and Motor Network Topology in Multiple Sclerosis Fatigue. Neurorehabilitation and Neural Repair, 2017, 31, 56-64.	1.4	28

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37	Simple index of functional connectivity at rest in Multiple Sclerosis fatigue. Clinical Neurophysiology, 2017, 128, 807-813.	0.7	16
38	Detecting large-scale networks in the human brain using high-density electroencephalography. Human Brain Mapping, 2017, 38, 4631-4643.	1.9	155
39	Neuronal electrical ongoing activity as a signature of cortical areas. Brain Structure and Function, 2017, 222, 2115-2126.	1.2	35
40	fMRI characterisation of widespread brain networks relevant for behavioural variability in fine hand motor control with and without visual feedback. NeuroImage, 2017, 148, 330-342.	2.1	22
41	Global signal modulation of single-trial fMRI response variability: Effect on positive vs negative BOLD response relationship. NeuroImage, 2016, 133, 62-74.	2.1	22
42	Early haemodynamic changes observed in patients with epilepsy, in a visual experiment and in simulations. Clinical Neurophysiology, 2016, 127, 245-253.	0.7	3
43	Electroencephalographic Fractal Dimension in Healthy Ageing and Alzheimerâ€™s Disease. PLoS ONE, 2016, 11, e0149587.	1.1	94
44	Non-Ceruloplasmin Copper Distinguishes A Distinct Subtype of Alzheimer's Disease: A Study of EEG-Derived Brain Activity. Current Alzheimer Research, 2016, 13, 1374-1384.	0.7	24
45	O027. Sub-cortical sources of the somatosensory pathway are hypoactive in migraine interictally: a Functional Source Separation analysis. Journal of Headache and Pain, 2015, 16, A55.	2.5	1
46	Brain Plasticity Effects of Neuromodulation Against Multiple Sclerosis Fatigue. Frontiers in Neurology, 2015, 6, 141.	1.1	49
47	Functional and structural balances of homologous sensorimotor regions in multiple sclerosis fatigue. Journal of Neurology, 2015, 262, 614-622.	1.8	29
48	Removing speech artifacts from electroencephalographic recordings during overt picture naming. NeuroImage, 2015, 105, 171-180.	2.1	62
49	Contradictory Reasoning Network: An EEG and fMRI Study. PLoS ONE, 2014, 9, e92835.	1.1	9
50	The spontaneous fluctuation of the excitability of a single node modulates the internodes connectivity: A TMSâ€EEG study. Human Brain Mapping, 2014, 35, 1740-1749.	1.9	36
51	P26: Multiple frequency functional connectivity in the hand somatosensory network: an EEG study. Clinical Neurophysiology, 2014, 125, S55-S56.	0.7	0
52	Spontaneous EEG alpha oscillation interacts with positive and negative BOLD responses in the visualâ€“auditory cortices and default-mode network. NeuroImage, 2013, 76, 362-372.	2.1	104
53	Multiple frequency functional connectivity in the hand somatosensory network: An EEG study. Clinical Neurophysiology, 2013, 124, 1216-1224.	0.7	33
54	Intrinsic variability in the human response to pain is assembled from multiple, dynamic brain processes. NeuroImage, 2013, 75, 68-78.	2.1	50

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55	Movement-induced uncoupling of primary sensory and motor areas in focal task-specific hand dystonia. Neuroscience, 2013, 250, 434-445.	1.1	26
56	Physiological Aging Impacts the Hemispheric Balances of Resting State Primary Somatosensory Activities. Brain Topography, 2013, 26, 186-199.	0.8	16
57	Universal vs. particular reasoning: a study with neuroimaging techniques. Logic Journal of the IGPL, 2013, 21, 1017-1027.	1.3	5
58	Cortico-muscular coherence as an index of fatigue in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 334-343.	1.4	44
59	Combined Analysis of Cortical (EEG) and Nerve Stump Signals Improves Robotic Hand Control. Neurorehabilitation and Neural Repair, 2012, 26, 275-281.	1.4	37
60	EEG-fMRI Based Information Theoretic Characterization of the Human Perceptual Decision System. PLoS ONE, 2012, 7, e33896.	1.1	30
61	A neurally-interfaced hand prosthesis tuned inter-hemispheric communication. Restorative Neurology and Neuroscience, 2012, 30, 407-418.	0.4	34
62	The relationship between the visual evoked potential and the gamma band investigated by blind and semi-blind methods. NeuroImage, 2011, 56, 1059-1071.	2.1	33
63	Voxel-wise information theoretic EEG-fMRI feature integration. NeuroImage, 2011, 55, 1270-1286.	2.1	27
64	Multimodal Functional Network Connectivity: An EEG-fMRI Fusion in Network Space. PLoS ONE, 2011, 6, e24642.	1.1	48
65	P36-9 Toward the neural control of robotic hand: clinical and EEG changes after 4-weeks training in a human amputee. Clinical Neurophysiology, 2010, 121, S319.	0.7	0
66	P33-4 Cortical neuronal pools in primary sensory and motor regions and their functional relationship investigated non-invasively in man. Clinical Neurophysiology, 2010, 121, S299.	0.7	0
67	An information theoretic approach to EEGâ€“fMRI integration of visually evoked responses. NeuroImage, 2010, 49, 498-516.	2.1	66
68	Functional source separation improves the quality of single trial visual evoked potentials recorded during concurrent EEG-fMRI. NeuroImage, 2010, 50, 112-123.	2.1	44
69	P23-15 De-coupling of primary sensory from primary motor areas in focal task-specific hand dystonia: A MEG study. Clinical Neurophysiology, 2010, 121, S242.	0.7	0
70	Hand somatosensory subcortical and cortical sources assessed by functional source separation: An EEG study. Human Brain Mapping, 2009, 30, 660-674.	1.9	53
71	Contradiction in universal and particular reasoning. Human Brain Mapping, 2009, 30, 4187-4197.	1.9	18
72	Choice of multivariate autoregressive model order affecting real network functional connectivity estimate. Clinical Neurophysiology, 2009, 120, 436-448.	0.7	47

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73	Hand sensoryâ€“motor cortical network assessed by functional source separation. Human Brain Mapping, 2008, 29, 70-81.	1.9	37
74	Functional source separation applied to induced visual gamma activity. Human Brain Mapping, 2008, 29, 131-141.	1.9	28
75	TUO18 Intracortical connectivity in the sensorimotor system: dynamic and stationary properties during sensory processing and isometric contractions. Clinical Neurophysiology, 2008, 119, S17.	0.7	0
76	Sensorimotor integration in focal task-specific hand dystonia: A magnetoencephalographic assessment. Neuroscience, 2008, 154, 563-571.	1.1	41
77	High-gamma band activity of primary hand cortical areas: A sensorimotor feedback efficiency index. NeuroImage, 2008, 40, 256-264.	2.1	57
78	Somatosensory dynamic gamma-band synchrony: A neural code of sensorimotor dexterity. NeuroImage, 2007, 35, 185-193.	2.1	27
79	Functional source separation and hand cortical representation for a brain-computer interface feature extraction. Journal of Physiology, 2007, 580, 703-721.	1.3	45
80	Sensory-motor interaction in primary hand cortical areas: A magnetoencephalography assessment. Neuroscience, 2006, 141, 533-542.	1.1	36
81	Cortical short-term fatigue effects assessed via rhythmic brainâ€“muscle coherence. Experimental Brain Research, 2006, 174, 144-151.	0.7	49
82	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
83	Functional source separation from magnetoencephalographic signals. Human Brain Mapping, 2006, 27, 925-934.	1.9	49
84	Fetal Magnetocardiographic Signals Extracted by â€˜Signal Subspaceâ€™ Blind Source Separation. IEEE Transactions on Biomedical Engineering, 2005, 52, 1140-1142.	2.5	12
85	An ICA Approach to Detect Functionally Different Intra-regional Neuronal Signals in MEG Data. Lecture Notes in Computer Science, 2005, , 1083-1090.	1.0	2
86	Optimization of an independent component analysis approach for artifact identification and removal in magnetoencephalographic signals. Clinical Neurophysiology, 2004, 115, 1220-1232.	0.7	259
87	Frontal Intrinsic Connectivity Networks Support Contradiction Identification During Inductive and Deductive Reasoning. Cognitive Computation, 0, , 1.	3.6	0