

# Camillo Porcaro

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Optimization of an independent component analysis approach for artifact identification and removal in magnetoencephalographic signals. <i>Clinical Neurophysiology</i> , 2004, 115, 1220-1232.	0.7	259
2	Detecting large-scale networks in the human brain using high-density electroencephalography. <i>Human Brain Mapping</i> , 2017, 38, 4631-4643.	1.9	155
3	Spontaneous EEG alpha oscillation interacts with positive and negative BOLD responses in the visual-auditory cortices and default-mode network. <i>NeuroImage</i> , 2013, 76, 362-372.	2.1	104
4	Electroencephalographic Fractal Dimension in Healthy Ageing and Alzheimer's Disease. <i>PLoS ONE</i> , 2016, 11, e0149587.	1.1	94
5	An information theoretic approach to EEG-fMRI integration of visually evoked responses. <i>NeuroImage</i> , 2010, 49, 498-516.	2.1	66
6	Removing speech artifacts from electroencephalographic recordings during overt picture naming. <i>NeuroImage</i> , 2015, 105, 171-180.	2.1	62
7	High-gamma band activity of primary hand cortical areas: A sensorimotor feedback efficiency index. <i>NeuroImage</i> , 2008, 40, 256-264.	2.1	57
8	A 1D CNN for high accuracy classification and transfer learning in motor imagery EEG-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2021, 18, 066053.	1.8	55
9	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. <i>Brain Sciences</i> , 2021, 11, 75.	1.1	54
10	Hand somatosensory subcortical and cortical sources assessed by functional source separation: An EEG study. <i>Human Brain Mapping</i> , 2009, 30, 660-674.	1.9	53
11	Personalized, bilateral whole-body somatosensory cortex stimulation to relieve fatigue in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2018, 24, 1366-1374.	1.4	51
12	Intrinsic variability in the human response to pain is assembled from multiple, dynamic brain processes. <i>NeuroImage</i> , 2013, 75, 68-78.	2.1	50
13	Cortical short-term fatigue effects assessed via rhythmic brain-muscle coherence. <i>Experimental Brain Research</i> , 2006, 174, 144-151.	0.7	49
14	Functional source separation from magnetoencephalographic signals. <i>Human Brain Mapping</i> , 2006, 27, 925-934.	1.9	49
15	Brain Plasticity Effects of Neuromodulation Against Multiple Sclerosis Fatigue. <i>Frontiers in Neurology</i> , 2015, 6, 141.	1.1	49
16	Multimodal Functional Network Connectivity: An EEG-fMRI Fusion in Network Space. <i>PLoS ONE</i> , 2011, 6, e24642.	1.1	48
17	Choice of multivariate autoregressive model order affecting real network functional connectivity estimate. <i>Clinical Neurophysiology</i> , 2009, 120, 436-448.	0.7	47
18	P3b amplitude as a signature of cognitive decline in the older population: An EEG study enhanced by Functional Source Separation. <i>NeuroImage</i> , 2019, 184, 535-546.	2.1	46

#	ARTICLE	IF	CITATIONS
19	Fetal auditory responses to external sounds and mother's heart beat: Detection improved by Independent Component Analysis. <i>Brain Research</i> , 2006, 1101, 51-58.	1.1	45
20	Functional source separation and hand cortical representation for a brain-computer interface feature extraction. <i>Journal of Physiology</i> , 2007, 580, 703-721.	1.3	45
21	Functional source separation improves the quality of single trial visual evoked potentials recorded during concurrent EEG-fMRI. <i>NeuroImage</i> , 2010, 50, 112-123.	2.1	44
22	Cortico-muscular coherence as an index of fatigue in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2013, 19, 334-343.	1.4	44
23	Impaired brainstem and thalamic high-frequency oscillatory EEG activity in migraine between attacks. <i>Cephalalgia</i> , 2017, 37, 915-926.	1.8	43
24	Frequency-dependent functional connectivity in resting state networks. <i>Human Brain Mapping</i> , 2020, 41, 5187-5198.	1.9	43
25	Hemodynamic Correlates of Electrophysiological Activity in the Default Mode Network. <i>Frontiers in Neuroscience</i> , 2019, 13, 1060.	1.4	42
26	Sensorimotor integration in focal task-specific hand dystonia: A magnetoencephalographic assessment. <i>Neuroscience</i> , 2008, 154, 563-571.	1.1	41
27	Adaptive optimal basis set for BCG artifact removal in simultaneous EEG-fMRI. <i>Scientific Reports</i> , 2018, 8, 8902.	1.6	41
28	Neuronal dynamics enable the functional differentiation of resting state networks in the human brain. <i>Human Brain Mapping</i> , 2019, 40, 1445-1457.	1.9	40
29	Hand sensory-motor cortical network assessed by functional source separation. <i>Human Brain Mapping</i> , 2008, 29, 70-81.	1.9	37
30	Combined Analysis of Cortical (EEG) and Nerve Stump Signals Improves Robotic Hand Control. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 275-281.	1.4	37
31	Sensory-motor interaction in primary hand cortical areas: A magnetoencephalography assessment. <i>Neuroscience</i> , 2006, 141, 533-542.	1.1	36
32	The spontaneous fluctuation of the excitability of a single node modulates the internodes connectivity: A TMS-EEG study. <i>Human Brain Mapping</i> , 2014, 35, 1740-1749.	1.9	36
33	Neuronal electrical ongoing activity as a signature of cortical areas. <i>Brain Structure and Function</i> , 2017, 222, 2115-2126.	1.2	35
34	A neurally-interfaced hand prosthesis tuned inter-hemispheric communication. <i>Restorative Neurology and Neuroscience</i> , 2012, 30, 407-418.	0.4	34
35	Cortical neurodynamics changes mediate the efficacy of a personalized neuromodulation against multiple sclerosis fatigue. <i>Scientific Reports</i> , 2019, 9, 18213.	1.6	34
36	The relationship between the visual evoked potential and the gamma band investigated by blind and semi-blind methods. <i>NeuroImage</i> , 2011, 56, 1059-1071.	2.1	33

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37	Multiple frequency functional connectivity in the hand somatosensory network: An EEG study. <i>Clinical Neurophysiology</i> , 2013, 124, 1216-1224.	0.7	33
38	Brain Functional Connectivity Changes After Transcranial Direct Current Stimulation in Epileptic Patients. <i>Frontiers in Neural Circuits</i> , 2018, 12, 44.	1.4	31
39	EEG-fMRI Based Information Theoretic Characterization of the Human Perceptual Decision System. <i>PLoS ONE</i> , 2012, 7, e33896.	1.1	30
40	Functional and structural balances of homologous sensorimotor regions in multiple sclerosis fatigue. <i>Journal of Neurology</i> , 2015, 262, 614-622.	1.8	29
41	Functional source separation applied to induced visual gamma activity. <i>Human Brain Mapping</i> , 2008, 29, 131-141.	1.9	28
42	Electroencephalography-Derived Sensory and Motor Network Topology in Multiple Sclerosis Fatigue. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 56-64.	1.4	28
43	Somatosensory dynamic gamma-band synchrony: A neural code of sensorimotor dexterity. <i>NeuroImage</i> , 2007, 35, 185-193.	2.1	27
44	Voxel-wise information theoretic EEG-fMRI feature integration. <i>NeuroImage</i> , 2011, 55, 1270-1286.	2.1	27
45	Movement-induced uncoupling of primary sensory and motor areas in focal task-specific hand dystonia. <i>Neuroscience</i> , 2013, 250, 434-445.	1.1	26
46	Non-Ceruloplasmin Copper Distinguishes A Distinct Subtype of Alzheimer's Disease: A Study of EEG-Derived Brain Activity. <i>Current Alzheimer Research</i> , 2016, 13, 1374-1384.	0.7	24
47	Global signal modulation of single-trial fMRI response variability: Effect on positive vs negative BOLD response relationship. <i>NeuroImage</i> , 2016, 133, 62-74.	2.1	22
48	fMRI characterisation of widespread brain networks relevant for behavioural variability in fine hand motor control with and without visual feedback. <i>NeuroImage</i> , 2017, 148, 330-342.	2.1	22
49	A New, High-Efficacy, Noninvasive Transcranial Electric Stimulation Tuned to Local Neurodynamics. <i>Journal of Neuroscience</i> , 2018, 38, 586-594.	1.7	20
50	Diagnostic Developments in Differentiating Unresponsive Wakefulness Syndrome and the Minimally Conscious State. <i>Frontiers in Neurology</i> , 2021, 12, 778951.	1.1	19
51	Contradiction in universal and particular reasoning. <i>Human Brain Mapping</i> , 2009, 30, 4187-4197.	1.9	18
52	Haemodynamic activity characterization of resting state networks by fractal analysis and thalamocortical morphofunctional integrity in chronic migraine. <i>Journal of Headache and Pain</i> , 2020, 21, 112.	2.5	18
53	A functional source separation algorithm to enhance error-related potentials monitoring in noninvasive brain-computer interface. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 191, 105419.	2.6	18
54	Characterisation of Haemodynamic Activity in Resting State Networks by Fractal Analysis. <i>International Journal of Neural Systems</i> , 2020, 30, 2050061.	3.2	17

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55	Physiological Aging Impacts the Hemispheric Balances of Resting State Primary Somatosensory Activities. <i>Brain Topography</i> , 2013, 26, 186-199.	0.8	16
56	Simple index of functional connectivity at rest in Multiple Sclerosis fatigue. <i>Clinical Neurophysiology</i> , 2017, 128, 807-813.	0.7	16
57	Emotional processing in RRMS patients: Dissociation between behavioural and neurophysiological response. <i>Multiple Sclerosis and Related Disorders</i> , 2019, 27, 344-349.	0.9	16
58	Neurobiological features and response to eye movement desensitization and reprocessing treatment of posttraumatic stress disorder in patients with breast cancer. <i>HÅrre Utbildning</i> , 2019, 10, 1600832.	1.4	13
59	Fetal Magnetocardiographic Signals Extracted by "Signal Subspace"™ Blind Source Separation. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1140-1142.	2.5	12
60	Thalamo-cortical networks in subtypes of migraine with aura patients. <i>Journal of Headache and Pain</i> , 2021, 22, 58.	2.5	12
61	Application of wearable EEG sensors for indoor thermal comfort measurements. <i>Acta IMEKO (2012)</i> , 2021, 10, 214.	0.4	12
62	Early and Late Effects of Semantic Distractors on Electroencephalographic Responses During Overt Picture Naming. <i>Frontiers in Psychology</i> , 2019, 10, 696.	1.1	11
63	Role of the Ipsilateral Primary Motor Cortex in the Visuo-Motor Network During Fine Contractions and Accurate Performance. <i>International Journal of Neural Systems</i> , 2021, 31, 2150011.	3.2	11
64	Hypothalamic structural integrity and temporal complexity of cortical information processing at rest in migraine without aura patients between attacks. <i>Scientific Reports</i> , 2021, 11, 18701.	1.6	11
65	Functional Semi-Blind Source Separation Identifies Primary Motor Area Without Active Motor Execution. <i>International Journal of Neural Systems</i> , 2018, 28, 1750047.	3.2	10
66	Contradictory Reasoning Network: An EEG and fMRI Study. <i>PLoS ONE</i> , 2014, 9, e92835.	1.1	9
67	Electrophysiological Correlates of Virtual-Reality Applications in the Rehabilitation Setting: New Perspectives for Stroke Patients. <i>Electronics (Switzerland)</i> , 2021, 10, 836.	1.8	9
68	Dynamics of the "Cognitive" Brain Wave P3b at Rest for Alzheimer Dementia Prediction in Mild Cognitive Impairment. <i>International Journal of Neural Systems</i> , 2022, 32, 2250022.	3.2	8
69	Augmenting robot intelligence via EEG signals to avoid trajectory planning mistakes of a smart wheelchair. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 223-235.	3.3	7
70	Corticomuscular Coherence Dependence on Body Side and Visual Feedback. <i>Neuroscience</i> , 2022, 490, 144-154.	1.1	6
71	Comparing between Different Sets of Preprocessing, Classifiers, and Channels Selection Techniques to Optimise Motor Imagery Pattern Classification System from EEG Pattern Recognition. <i>Brain Sciences</i> , 2022, 12, 57.	1.1	6
72	Characterizing Fractal Genetic Variation in the Human Genome from the Hapmap Project. <i>International Journal of Neural Systems</i> , 2022, 32, 2250028.	3.2	6

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73	Universal vs. particular reasoning: a study with neuroimaging techniques. Logic Journal of the IGPL, 2013, 21, 1017-1027.	1.3	5
74	Bimodal sensory integration in migraine: A study of the effect of visual stimulation on somatosensory evoked cortical responses. Cephalalgia, 2022, , 033310242210750.	1.8	5
75	The Timecourse of Electrophysiological Brain-Heart Interaction in DoC Patients. Brain Sciences, 2021, 11, 750.	1.1	4
76	Early haemodynamic changes observed in patients with epilepsy, in a visual experiment and in simulations. Clinical Neurophysiology, 2016, 127, 245-253.	0.7	3
77	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
78	Effects on Motor Control of Personalized Neuromodulation Against Multiple Sclerosis Fatigue. Brain Topography, 2021, 34, 363-372.	0.8	2
79	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
80	Assessing Neurokinematic and Neuromuscular Connectivity During Walking Using Mobile Brain-Body Imaging. Frontiers in Neuroscience, 2022, 16, .	1.4	1
81	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
82	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
83	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
84	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
85	P26: Multiple frequency functional connectivity in the hand somatosensory network: an EEG study. Clinical Neurophysiology, 2014, 125, S55-S56.	0.7	0
86	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
87	Frontal Intrinsic Connectivity Networks Support Contradiction Identification During Inductive and Deductive Reasoning. Cognitive Computation, 0, , 1.	3.6	0