Stefania Della Penna

List of Publications by Year
in descending order

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77	8,067	159358	82410
papers	citations	30 h-index	72 g-index

78	78	78	9237
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic functional connectivity: Promise, issues, and interpretations. NeuroImage, 2013, 80, 360-378.	2.1	2,358
2	The Human Connectome Project: A data acquisition perspective. NeuroImage, 2012, 62, 2222-2231.	2.1	1,978
3	Temporal dynamics of spontaneous MEG activity in brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6040-6045.	3.3	664
4	A Cortical Core for Dynamic Integration of Functional Networks in the Resting Human Brain. Neuron, 2012, 74, 753-764.	3.8	396
5	Adding dynamics to the Human Connectome Project with MEG. NeuroImage, 2013, 80, 190-201.	2.1	189
6	Natural Scenes Viewing Alters the Dynamics of Functional Connectivity in the Human Brain. Neuron, 2013, 79, 782-797.	3.8	175
7	A Dynamic Core Network and Global Efficiency in the Resting Human Brain. Cerebral Cortex, 2016, 26, 4015-4033.	1.6	162
8	Dynamic reorganization of human resting-state networks during visuospatial attention. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8112-8117.	3.3	160
9	Frequency specific interactions of MEG resting state activity within and across brain networks as revealed by the multivariate interaction measure. NeuroImage, 2013, 79, 172-183.	2.1	118
10	Human brain activation during passive listening to sounds from different locations: An fMRI and MEG study. Human Brain Mapping, 2005, 26, 251-261.	1.9	109
11	A Signal-Processing Pipeline for Magnetoencephalography Resting-State Networks. Brain Connectivity, 2011, 1, 49-59.	0.8	105
12	SQUID systems for biomagnetic imaging. Superconductor Science and Technology, 2001, 14, R79-R114.	1.8	102
13	Cortical cores in network dynamics. NeuroImage, 2018, 180, 370-382.	2.1	93
14	Topographic Organization of the Human Primary and Secondary Somatosensory Cortices: Comparison of fMRI and MEG Findings. NeuroImage, 2002, 17, 1373-1383.	2.1	85
15	Cortical rhythms reactivity in AD, LBD and normal subjects: A quantitative MEG study. Neurobiology of Aging, 2006, 27, 1100-1109.	1.5	80
16	Lateralization of Dichotic Speech Stimuli is Based on Specific Auditory Pathway Interactions: Neuromagnetic Evidence. Cerebral Cortex, 2007, 17, 2303-2311.	1.6	70
17	Comparison between SI and SII responses as a function of stimulus intensity. NeuroReport, 2002, 13, 813-819.	0.6	68
18	Topographic organization of the human primary and secondary somatosensory areas. NeuroReport, 2000, 11, 2035-2043.	0.6	62

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19	Temporal dynamics of alpha and beta rhythms in human SI and SII after galvanic median nerve stimulation. A MEG study. NeuroImage, 2004, 22, 1438-1446.	2.1	58
20	A Frontoparietal Network for Spatial Attention Reorienting in the Auditory Domain: A Human fMRI/MEG Study of Functional and Temporal Dynamics. Cerebral Cortex, 2008, 18, 1139-1147.	1.6	55
21	Evaluation of Cortical Connectivity During Real and Imagined Rhythmic Finger Tapping. Brain Topography, 2007, 19, 137-145.	0.8	54
22	Electron paramagnetic resonance spectrometer for threeâ€dimensionalinvivoimaging at very low frequency. Review of Scientific Instruments, 1992, 63, 4263-4270.	0.6	53
23	The connectivity of functional cores reveals different degrees of segregation and integration in the brain at rest. NeuroImage, 2013, 69, 51-61.	2.1	49
24	Biomagnetic systems for clinical use. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 937-948.	0.6	45
25	Anatomical Segregation of Visual Selection Mechanisms in Human Parietal Cortex. Journal of Neuroscience, 2013, 33, 6225-6229.	1.7	43
26	Nociceptive and non-nociceptive sub-regions in the human secondary somatosensory cortex: An MEG study using fMRI constraints. NeuroImage, 2005, 26, 48-56.	2.1	42
27	Temporal Dynamics of Plastic Changes in Human Primary Somatosensory Cortex after Finger Webbing. Cerebral Cortex, 2007, 17, 2134-2142.	1.6	39
28	The Sound of Consciousness: Neural Underpinnings of Auditory Perception. Journal of Neuroscience, 2011, 31, 16611-16618.	1.7	38
29	Spontaneous Beta Band Rhythms in the Predictive Coding of Natural Stimuli. Neuroscientist, 2021, 27, 184-201.	2.6	38
30	â€œGatingâ€•effects of simultaneous peripheral electrical stimulations on human secondary somatosensory cortex: a whole-head MEG study. NeuroImage, 2003, 20, 1704-1713.	2.1	35
31	Being an agent or an observer: Different spectral dynamics revealed by MEG. NeuroImage, 2014, 102, 717-728.	2.1	33
32	Brain structures activated by overt and covert emotional visual stimuli. Brain Research Bulletin, 2009, 79, 258-264.	1.4	32
33	Neuromagnetic functional coupling during dichotic listening of speech sounds. Human Brain Mapping, 2008, 29, 253-264.	1.9	31
34	Topology of Functional Connectivity and Hub Dynamics in the Beta Band As Temporal Prior for Natural Vision in the Human Brain. Journal of Neuroscience, 2018, 38, 3858-3871.	1.7	31
35	Dynamics of EEG Rhythms Support Distinct Visual Selection Mechanisms in Parietal Cortex: A Simultaneous Transcranial Magnetic Stimulation and EEG Study. Journal of Neuroscience, 2015, 35, 721-730.	1.7	27
36	A K-means multivariate approach for clustering independent components from magnetoencephalographic data. NeuroImage, 2012, 62, 1912-1923.	2.1	26

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37	Human alpha rhythms during visual delayed choice reaction time tasks: A magnetoencephalography study. Human Brain Mapping, 2005, 24, 184-192.	1.9	25
38	Multimodalâ€3D imaging based on Î¼MRI and Î¼CT techniques bridges the gap with histology in visualization of the bone regeneration process. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 750-761.	1.3	22
39	Modulation of alpha oscillations in insular cortex reflects the threat of painful stimuli. NeuroImage, 2009, 46, 1082-1090.	2.1	21
40	Empirical and Theoretical Characterization of the Diffusion Process of Different Gadolinium-Based Nanoparticles within the Brain Tissue after Ultrasound-Induced Permeabilization of the Blood-Brain Barrier. Contrast Media and Molecular Imaging, 2019, 2019, 1-13.	0.4	21
41	Calibration of a multichannel MEG system based on the Signal Space Separation method. Physics in Medicine and Biology, 2012, 57, 4855-4870.	1.6	20
42	Detection and counting of specific cell populations by means of magnetic markers linked to monoclonal antibodies. Physics in Medicine and Biology, 1995, 40, 671-681.	1.6	17
43	A SQUID based AC susceptometer for the investigation of large samples. Physics in Medicine and Biology, 1996, 41, 2533-2539.	1.6	17
44	Neuromagnetic responses reveal the cortical timing of audiovisual synchrony. Neuroscience, 2011, 193, 182-192.	1.1	17
45	The Impact of the Geometric Correction Scheme on MEG Functional Topology at Rest. Frontiers in Neuroscience, 2019, 13, 1114.	1.4	15
46	Magnetoencephalography in the study of brain dynamics. Functional Neurology, 2014, 29, 241-53.	1.3	15
47	Low- and high-frequency evoked responses following pattern reversal stimuli: A MEG study supported by fMRI constraint. NeuroImage, 2007, 35, 1152-1167.	2.1	13
48	The anatomical scaffold underlying the functional centrality of known cortical hubs. Human Brain Mapping, 2017, 38, 5141-5160.	1.9	13
49	Human brain activation elicited by the localization of sounds delivering at attended or unattended positions: an fMRI/MEG study. Cognitive Processing, 2006, 7, 116-117.	0.7	12
50	The study of steady magnetic fields associated with primary and secondary ST shift in ischaemic rabbit hearts. Physiological Measurement, 1997, 18, 191-200.	1.2	11
51	Multi-band MEG signatures of BOLD connectivity reorganization during visuospatial attention. NeuroImage, 2021, 230, 117781.	2.1	11
52	Directed Flow of Beta Band Communication During Reorienting of Attention Within the Dorsal Attention Network. Brain Connectivity, 2021, 11, 717-724.	0.8	11
53	Spectral signature of attentional reorienting in the human brain. NeuroImage, 2021, 244, 118616.	2.1	11
54	Fast Room Temperature Very Low Field-Magnetic Resonance Imaging System Compatible with MagnetoEncephaloGraphy Environment. PLoS ONE, 2015, 10, e0142701.	1.1	10

#	Article	IF	Citations
55	R.F. (280 MHz) EPR imaging of extended samples: Apparatus and preliminary results. Applied Magnetic Resonance, 1992, 3, 909-915.	0.6	8
56	Optimized 3D co-registration of ultra-low-field and high-field magnetic resonance images. PLoS ONE, 2018, 13, e0193890.	1.1	8
57	Temporal modes of hub synchronization at rest. NeuroImage, 2021, 235, 118005.	2.1	8
58	The use of an inhomogeneous applied field improves the spatial sensitivity profile of anin vivoSQUID susceptometer. Physics in Medicine and Biology, 1999, 44, N21-N29.	1.6	7
59	Involvement of ordinary what and where auditory cortical areas during illusory perception. Brain Structure and Function, 2018, 223, 965-979.	1.2	7
60	Conditioning transcutaneous electrical nerve stimulation induces delayed gating effects on cortical response: A magnetoencephalographic study. NeuroImage, 2007, 35, 1578-1585.	2.1	6
61	A new software for dimensional measurements in 3D endodontic root canal instrumentation. Annali Dell'Istituto Superiore Di Sanita, 2012, 48, 42-8.	0.2	5
62	Impact of SQUIDs on functional imaging in neuroscience. Superconductor Science and Technology, 2014, 27, 044004.	1.8	4
63	Characterization of the diffusion process of different Gadolinium-based nanoparticles within the brain tissue after ultrasound induced Blood-Brain Barrier permeabilization. , 2016, , .		4
64	Biomagnetic measurements utilising a superparamagnetic marker: a feasibility study. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 425-432.	0.4	3
65	Software tools for the quantitative evaluation of dental treatment effects from ÂµCT scans. Journal of Biomedical Graphics and Computing, 2013, 3, .	0.2	3
66	Very Low Field MRI: A fast system compatible with Magnetoencephalography. , 2015, , .		3
67	Distinct connectivity profiles predict different in-time processes of motor skill learning. NeuroImage, 2021, 238, 118239.	2.1	3
68	Frontal and parietal background connectivity and their dynamic changes account for individual differences in the multisensory representation of peripersonal space. Scientific Reports, 2021, 11, 20533.	1.6	3
69	Sampling and reconstruction schemes for biomagnetic sensor arrays. Physics in Medicine and Biology, 2002, 47, N239-N248.	1.6	2
70	A Cartesian Timeâ€“Frequency Approach to Reveal Brain Interaction Dynamics. Brain Topography, 2007, 19, 147-154.	0.8	2
71	Phase-coupling of neural oscillations contributes to individual differences in peripersonal space. Neuropsychologia, 2021, 156, 107823.	0.7	2
72	Alpha rhythm modulations in the intraparietal sulcus reflect decision signals during item recognition. NeuroImage, 2022, 258, 119345.	2.1	2

#	Article	IF	Citations
73	An AC magnetizing field biosusceptometer using a SQUID based sensor with additional compensation module. IEEE Transactions on Applied Superconductivity, 2003, 13, 348-351.	1.1	1
74	Theta-burst stimulation causally affects side perception in the Deutschâ€™s octave illusion. Scientific Reports, 2018, 8, 12844.	1.6	1
75	On the Organisation of the SII human somatosensory cortices: preliminary results with fMRI and electrical peripheral nerve Stimulation. Biomedizinische Technik, 1999, 44, 112-115.	0.9	0
76	SQUID sensor with additional compensation module for operation in an AC applied field. Journal of Physics: Conference Series, 2006, 43, 1247-1249.	0.3	0
77	Power map during painful and nonpainful stimulation using beamformer technique. , 2007, , .		0