

# Stefania Della Penna

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

8,067  
citations

159358

30  
h-index

82410

72  
g-index

78  
all docs

78  
docs citations

78  
times ranked

9237  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Alpha rhythm modulations in the intraparietal sulcus reflect decision signals during item recognition. <i>NeuroImage</i> , 2022, 258, 119345.   | 2.1 | 2         |
| 2  | Spontaneous Beta Band Rhythms in the Predictive Coding of Natural Stimuli. <i>Neuroscientist</i> , 2021, 27, 184-201.   | 2.6 | 38        |
| 3  | Multi-band MEG signatures of BOLD connectivity reorganization during visuospatial attention. <i>NeuroImage</i> , 2021, 230, 117781.   | 2.1 | 11        |
| 4  | Phase-coupling of neural oscillations contributes to individual differences in peripersonal space. <i>Neuropsychologia</i> , 2021, 156, 107823.   | 0.7 | 2         |
| 5  | Directed Flow of Beta Band Communication During Reorienting of Attention Within the Dorsal Attention Network. <i>Brain Connectivity</i> , 2021, 11, 717-724.  | 0.8 | 11        |
| 6  | Temporal modes of hub synchronization at rest. <i>NeuroImage</i> , 2021, 235, 118005.   | 2.1 | 8         |
| 7  | Distinct connectivity profiles predict different in-time processes of motor skill learning. <i>NeuroImage</i> , 2021, 238, 118239.  | 2.1 | 3         |
| 8  | Spectral signature of attentional reorienting in the human brain. <i>NeuroImage</i> , 2021, 244, 118616.  | 2.1 | 11        |
| 9  | Frontal and parietal background connectivity and their dynamic changes account for individual differences in the multisensory representation of peripersonal space. <i>Scientific Reports</i> , 2021, 11, 20533.  | 1.6 | 3         |
| 10 | The Impact of the Geometric Correction Scheme on MEG Functional Topology at Rest. <i>Frontiers in Neuroscience</i> , 2019, 13, 1114.  | 1.4 | 15        |
| 11 | 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. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-13. | 0.4 | 21        |
| 12 | Topology of Functional Connectivity and Hub Dynamics in the Beta Band As Temporal Prior for Natural Vision in the Human Brain. <i>Journal of Neuroscience</i> , 2018, 38, 3858-3871.  | 1.7 | 31        |
| 13 | Multimodal 3D imaging based on $\mu$ MRI and $\mu$ CT techniques bridges the gap with histology in visualization of the bone regeneration process. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 750-761.  | 1.3 | 22        |
| 14 | Involvement of ordinary what and where auditory cortical areas during illusory perception. <i>Brain Structure and Function</i> , 2018, 223, 965-979.  | 1.2 | 7         |
| 15 | Cortical cores in network dynamics. <i>NeuroImage</i> , 2018, 180, 370-382.   | 2.1 | 93        |
| 16 | Theta-burst stimulation causally affects side perception in the Deutsch's octave illusion. <i>Scientific Reports</i> , 2018, 8, 12844.  | 1.6 | 1         |
| 17 | Optimized 3D co-registration of ultra-low-field and high-field magnetic resonance images. <i>PLoS ONE</i> , 2018, 13, e0193890.   | 1.1 | 8         |
| 18 | The anatomical scaffold underlying the functional centrality of known cortical hubs. <i>Human Brain Mapping</i> , 2017, 38, 5141-5160.  | 1.9 | 13        |

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|----|--|-----|-----------|
| 19 | Characterization of the diffusion process of different Gadolinium-based nanoparticles within the brain tissue after ultrasound induced Blood-Brain Barrier permeabilization. , 2016, , .             |     | 4         |
| 20 | A Dynamic Core Network and Global Efficiency in the Resting Human Brain. Cerebral Cortex, 2016, 26, 4015-4033.   | 1.6 | 162       |
| 21 | 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        |
| 22 | 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       |
| 23 | Very Low Field MRI: A fast system compatible with Magnetoencephalography. , 2015, , .  |     | 3         |
| 24 | Fast Room Temperature Very Low Field-Magnetic Resonance Imaging System Compatible with MagnetoEncephaloGraphy Environment. PLoS ONE, 2015, 10, e0142701.   | 1.1 | 10        |
| 25 | Impact of SQUIDs on functional imaging in neuroscience. Superconductor Science and Technology, 2014, 27, 044004.   | 1.8 | 4         |
| 26 | Being an agent or an observer: Different spectral dynamics revealed by MEG. NeuroImage, 2014, 102, 717-728.  | 2.1 | 33        |
| 27 | Magnetoencephalography in the study of brain dynamics. Functional Neurology, 2014, 29, 241-53.   | 1.3 | 15        |
| 28 | 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        |
| 29 | Natural Scenes Viewing Alters the Dynamics of Functional Connectivity in the Human Brain. Neuron, 2013, 79, 782-797.   | 3.8 | 175       |
| 30 | Adding dynamics to the Human Connectome Project with MEG. NeuroImage, 2013, 80, 190-201.   | 2.1 | 189       |
| 31 | 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       |
| 32 | Dynamic functional connectivity: Promise, issues, and interpretations. NeuroImage, 2013, 80, 360-378.  | 2.1 | 2,358     |
| 33 | Anatomical Segregation of Visual Selection Mechanisms in Human Parietal Cortex. Journal of Neuroscience, 2013, 33, 6225-6229.  | 1.7 | 43        |
| 34 | Software tools for the quantitative evaluation of dental treatment effects from $\mu$ CT scans. Journal of Biomedical Graphics and Computing, 2013, 3, .   | 0.2 | 3         |
| 35 | 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        |
| 36 | The Human Connectome Project: A data acquisition perspective. NeuroImage, 2012, 62, 2222-2231.   | 2.1 | 1,978     |

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|----|--|-----|-----------|
| 37 | A Cortical Core for Dynamic Integration of Functional Networks in the Resting Human Brain. <i>Neuron</i> , 2012, 74, 753-764.  | 3.8 | 396       |
| 38 | A K-means multivariate approach for clustering independent components from magnetoencephalographic data. <i>NeuroImage</i> , 2012, 62, 1912-1923.  | 2.1 | 26        |
| 39 | A new software for dimensional measurements in 3D endodontic root canal instrumentation. <i>Annali Dell'Istituto Superiore Di Sanita</i> , 2012, 48, 42-8.                                   | 0.2 | 5         |
| 40 | Neuromagnetic responses reveal the cortical timing of audiovisual synchrony. <i>Neuroscience</i> , 2011, 193, 182-192.   | 1.1 | 17        |
| 41 | A Signal-Processing Pipeline for Magnetoencephalography Resting-State Networks. <i>Brain Connectivity</i> , 2011, 1, 49-59.  | 0.8 | 105       |
| 42 | The Sound of Consciousness: Neural Underpinnings of Auditory Perception. <i>Journal of Neuroscience</i> , 2011, 31, 16611-16618.   | 1.7 | 38        |
| 43 | Temporal dynamics of spontaneous MEG activity in brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6040-6045.              | 3.3 | 664       |
| 44 | Brain structures activated by overt and covert emotional visual stimuli. <i>Brain Research Bulletin</i> , 2009, 79, 258-264.   | 1.4 | 32        |
| 45 | Modulation of alpha oscillations in insular cortex reflects the threat of painful stimuli. <i>NeuroImage</i> , 2009, 46, 1082-1090.  | 2.1 | 21        |
| 46 | Neuromagnetic functional coupling during dichotic listening of speech sounds. <i>Human Brain Mapping</i> , 2008, 29, 253-264.  | 1.9 | 31        |
| 47 | A Frontoparietal Network for Spatial Attention Reorienting in the Auditory Domain: A Human fMRI/MEG Study of Functional and Temporal Dynamics. <i>Cerebral Cortex</i> , 2008, 18, 1139-1147. | 1.6 | 55        |
| 48 | Power map during painful and nonpainful stimulation using beamformer technique. , 2007, , .  |     | 0         |
| 49 | Lateralization of Dichotic Speech Stimuli is Based on Specific Auditory Pathway Interactions: Neuromagnetic Evidence. <i>Cerebral Cortex</i> , 2007, 17, 2303-2311.                          | 1.6 | 70        |
| 50 | Temporal Dynamics of Plastic Changes in Human Primary Somatosensory Cortex after Finger Webbing. <i>Cerebral Cortex</i> , 2007, 17, 2134-2142.   | 1.6 | 39        |
| 51 | Conditioning transcutaneous electrical nerve stimulation induces delayed gating effects on cortical response: A magnetoencephalographic study. <i>NeuroImage</i> , 2007, 35, 1578-1585.      | 2.1 | 6         |
| 52 | Low- and high-frequency evoked responses following pattern reversal stimuli: A MEG study supported by fMRI constraint. <i>NeuroImage</i> , 2007, 35, 1152-1167.                              | 2.1 | 13        |
| 53 | Evaluation of Cortical Connectivity During Real and Imagined Rhythmic Finger Tapping. <i>Brain Topography</i> , 2007, 19, 137-145.   | 0.8 | 54        |
| 54 | A Cartesian Time-Frequency Approach to Reveal Brain Interaction Dynamics. <i>Brain Topography</i> , 2007, 19, 147-154.   | 0.8 | 2         |

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|----|---|-----|-----------|
| 55 | Cortical rhythms reactivity in AD, LBD and normal subjects: A quantitative MEG study. <i>Neurobiology of Aging</i> , 2006, 27, 1100-1109.   | 1.5 | 80        |
| 56 | SQUID sensor with additional compensation module for operation in an AC applied field. <i>Journal of Physics: Conference Series</i> , 2006, 43, 1247-1249.                                      | 0.3 | 0         |
| 57 | Human brain activation elicited by the localization of sounds delivering at attended or unattended positions: an fMRI/MEG study. <i>Cognitive Processing</i> , 2006, 7, 116-117.                | 0.7 | 12        |
| 58 | Human alpha rhythms during visual delayed choice reaction time tasks: A magnetoencephalography study. <i>Human Brain Mapping</i> , 2005, 24, 184-192.   | 1.9 | 25        |
| 59 | Human brain activation during passive listening to sounds from different locations: An fMRI and MEG study. <i>Human Brain Mapping</i> , 2005, 26, 251-261.                                      | 1.9 | 109       |
| 60 | Nociceptive and non-nociceptive sub-regions in the human secondary somatosensory cortex: An MEG study using fMRI constraints. <i>NeuroImage</i> , 2005, 26, 48-56.                              | 2.1 | 42        |
| 61 | Temporal dynamics of alpha and beta rhythms in human SI and SII after galvanic median nerve stimulation. A MEG study. <i>NeuroImage</i> , 2004, 22, 1438-1446.                                  | 2.1 | 58        |
| 62 | “Gating” effects of simultaneous peripheral electrical stimulations on human secondary somatosensory cortex: a whole-head MEG study. <i>NeuroImage</i> , 2003, 20, 1704-1713.                   | 2.1 | 35        |
| 63 | An AC magnetizing field biosusceptometer using a SQUID based sensor with additional compensation module. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 348-351.             | 1.1 | 1         |
| 64 | Sampling and reconstruction schemes for biomagnetic sensor arrays. <i>Physics in Medicine and Biology</i> , 2002, 47, N239-N248.  | 1.6 | 2         |
| 65 | Comparison between SI and SII responses as a function of stimulus intensity. <i>NeuroReport</i> , 2002, 13, 813-819.  | 0.6 | 68        |
| 66 | Topographic Organization of the Human Primary and Secondary Somatosensory Cortices: Comparison of fMRI and MEG Findings. <i>NeuroImage</i> , 2002, 17, 1373-1383.                               | 2.1 | 85        |
| 67 | SQUID systems for biomagnetic imaging. <i>Superconductor Science and Technology</i> , 2001, 14, R79-R114.   | 1.8 | 102       |
| 68 | Biomagnetic systems for clinical use. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 937-948. | 0.6 | 45        |
| 69 | Topographic organization of the human primary and secondary somatosensory areas. <i>NeuroReport</i> , 2000, 11, 2035-2043.  | 0.6 | 62        |
| 70 | The use of an inhomogeneous applied field improves the spatial sensitivity profile of an in vivo SQUID susceptometer. <i>Physics in Medicine and Biology</i> , 1999, 44, N21-N29.               | 1.6 | 7         |
| 71 | On the Organisation of the SII human somatosensory cortices: preliminary results with fMRI and electrical peripheral nerve Stimulation. <i>Biomedizinische Technik</i> , 1999, 44, 112-115.     | 0.9 | 0         |
| 72 | The study of steady magnetic fields associated with primary and secondary ST shift in ischaemic rabbit hearts. <i>Physiological Measurement</i> , 1997, 18, 191-200.                            | 1.2 | 11        |

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|----|---|-----|-----------|
| 73 | A SQUID based AC susceptometer for the investigation of large samples. <i>Physics in Medicine and Biology</i> , 1996, 41, 2533-2539.  | 1.6 | 17        |
| 74 | Detection and counting of specific cell populations by means of magnetic markers linked to monoclonal antibodies. <i>Physics in Medicine and Biology</i> , 1995, 40, 671-681.   | 1.6 | 17        |
| 75 | Biomagnetic measurements utilising a superparamagnetic marker: a feasibility study. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 425-432. | 0.4 | 3         |
| 76 | Electron paramagnetic resonance spectrometer for three-dimensional in vivo imaging at very low frequency. <i>Review of Scientific Instruments</i> , 1992, 63, 4263-4270.  | 0.6 | 53        |
| 77 | R.F. (280 MHz) EPR imaging of extended samples: Apparatus and preliminary results. <i>Applied Magnetic Resonance</i> , 1992, 3, 909-915.  | 0.6 | 8         |