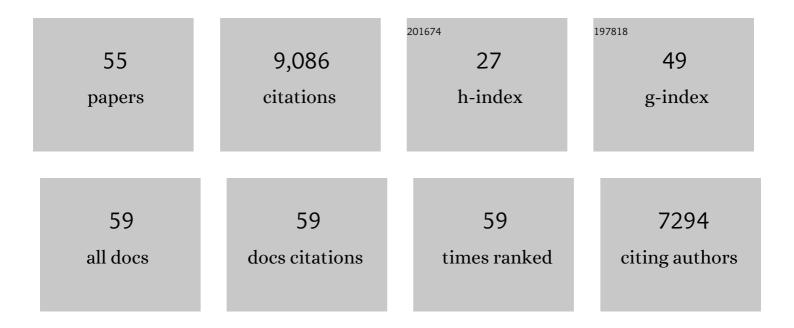
## Matti Hamalainen

List of Publications by Year in descending order

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MATTI HAMALAINEN

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Weighted Blind Source Separation Can Decompose the Frequency Mismatch Response by Deviant<br>Concatenation: An MEG Study. Frontiers in Neurology, 2022, 13, 762497.      | 2.4 | 0         |
| 2  | Boundary Element Fast Multipole Method for Enhanced Modeling of Neurophysiological Recordings.<br>IEEE Transactions on Biomedical Engineering, 2021, 68, 308-318.        | 4.2 | 21        |
| 3  | Auditory cues facilitate object movement processing in human extrastriate visual cortex during simulated self-motion: A pilot study. Brain Research, 2021, 1765, 147489. | 2.2 | 1         |
| 4  | Synchronization patterns reveal neuronal coding of working memory content. Cell Reports, 2021, 36, 109566.   | 6.4 | 17        |
| 5  | Multiscale Modeling of EEG/MEG Response of a Compact Cluster of Tightly Spaced Pyramidal<br>Neocortical Neurons. , 2021, , 195-211.                                      |     | 0         |
| 6  | A novel time-delayed correlation method decomposes mismatch response without using subtraction. , 2021, 2021, 484-487.   |     | 1         |
| 7  | Magnetoencephalography Signal Processing, Forward Modeling, Inverse Source Imaging, and<br>Coherence Analysis. Neuroimaging Clinics of North America, 2020, 30, 125-143. | 1.0 | 6         |
| 8  | Human Neocortical Neurosolver (HNN), a new software tool for interpreting the cellular and network origin of human MEG/EEG data. ELife, 2020, 9, .                       | 6.0 | 68        |
| 9  | Permutation Statistics for Connectivity Analysis between Regions of Interest in EEG and MEG Data.<br>Scientific Reports, 2019, 9, 7942.                                  | 3.3 | 18        |
| 10 | IFCN-endorsed practical guidelines for clinical magnetoencephalography (MEG). Clinical<br>Neurophysiology, 2018, 129, 1720-1747.   | 1.5 | 111       |
| 11 | Localizing on-scalp MEG sensors using an array of magnetic dipole coils. PLoS ONE, 2018, 13, e0191111.   | 2.5 | 27        |
| 12 | Versatile synchronized real-time MEG hardware controller for large-scale fast data acquisition.<br>Review of Scientific Instruments, 2017, 88, 055110.                   | 1.3 | 4         |
| 13 | Benchmarking for On-Scalp MEG Sensors. IEEE Transactions on Biomedical Engineering, 2017, 64, 1270-1276.   | 4.2 | 20        |
| 14 | Auditory processing in noise is associated with complex patterns of disrupted functional connectivity in autism spectrum disorder. Autism Research, 2017, 10, 631-647.   | 3.8 | 41        |
| 15 | Suppression of irrelevant sounds during auditory working memory. Neurolmage, 2017, 161, 1-8.   | 4.2 | 11        |
| 16 | A Review of Issues Related to Data Acquisition and Analysis in EEG/MEG Studies. Brain Sciences, 2017, 7, 58.   | 2.3 | 112       |
| 17 | Similarities and differences between on-scalp and conventional in-helmet magnetoencephalography recordings. PLoS ONE, 2017, 12, e0178602.                                | 2.5 | 25        |
| 18 | BabyMEG: A whole-head pediatric magnetoencephalography system for human brain development<br>research. Review of Scientific Instruments, 2016, 87, 094301.               | 1.3 | 66        |

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|----|---|-----|-----------|
| 19 | Interacting parallel pathways associate sounds with visual identity in auditory cortices. NeuroImage, 2016, 124, 858-868.   | 4.2 | 9         |
| 20 | Attention Drives Synchronization of Alpha and Beta Rhythms between Right Inferior Frontal and Primary Sensory Neocortex. Journal of Neuroscience, 2015, 35, 2074-2082.  | 3.6 | 79        |
| 21 | Auditory Conflict Resolution Correlates with Medial–Lateral Frontal Theta/Alpha Phase Synchrony.<br>PLoS ONE, 2014, 9, e110989.   | 2.5 | 10        |
| 22 | Lateralized parietotemporal oscillatory phase synchronization during auditory selective attention.<br>NeuroImage, 2014, 86, 461-469.  | 4.2 | 22        |
| 23 | Location specific sleep spindle activity in the early visual areas and perceptual learning. Vision Research, 2014, 99, 162-171.   | 1.4 | 55        |
| 24 | Enhanced Spontaneous Oscillations in the Supplementary Motor Area Are Associated with<br>Sleep-Dependent Offline Learning of Finger-Tapping Motor-Sequence Task. Journal of Neuroscience,<br>2013, 33, 13894-13902. | 3.6 | 80        |
| 25 | Dynamic Oscillatory Processes Governing Cued Orienting and Allocation of Auditory Attention.<br>Journal of Cognitive Neuroscience, 2013, 25, 1926-1943.   | 2.3 | 65        |
| 26 | MEG and EEG data analysis with MNE-Python. Frontiers in Neuroscience, 2013, 7, 267.   | 2.8 | 1,864     |
| 27 | MEG Source Localization Using Invariance of Noise Space. PLoS ONE, 2013, 8, e58408.   | 2.5 | 8         |
| 28 | Mixed-norm estimates for the M/EEG inverse problem using accelerated gradient methods. Physics in<br>Medicine and Biology, 2012, 57, 1937-1961.   | 3.0 | 169       |
| 29 | Dissociable Influences of Auditory Object vs. Spatial Attention on Visual System Oscillatory Activity.<br>PLoS ONE, 2012, 7, e38511.  | 2.5 | 12        |
| 30 | Viability of sharing MEG data using minimum-norm imaging. Proceedings of SPIE, 2011, , .  | 0.8 | 1         |
| 31 | Attention-driven auditory cortex short-term plasticity helps segregate relevant sounds from noise.<br>Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4182-4187.        | 7.1 | 99        |
| 32 | Dynamics of Dynamics within a Single Data Acquisition Session: Variation in Neocortical Alpha<br>Oscillations in Human MEG. PLoS ONE, 2011, 6, e24941.  | 2.5 | 14        |
| 33 | Functional Mapping with Simultaneous MEG and EEG. Journal of Visualized Experiments, 2010, , .  | 0.3 | 11        |
| 34 | Onset timing of crossâ€sensory activations and multisensory interactions in auditory and visual sensory cortices. European Journal of Neuroscience, 2010, 31, 1772-1782.  | 2.6 | 107       |
| 35 | Transformations in oscillatory activity and evoked responses in primary somatosensory cortex in<br>middle age: A combined computational neural modeling and MEG study. NeuroImage, 2010, 52, 897-912.               | 4.2 | 44        |
| 36 | Cued Spatial Attention Drives Functionally Relevant Modulation of the Mu Rhythm in Primary<br>Somatosensory Cortex. Journal of Neuroscience, 2010, 30, 13760-13765.   | 3.6 | 234       |

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|----|--|------|-----------|
| 37 | Quantitative Analysis and Biophysically Realistic Neural Modeling of the MEG Mu Rhythm:<br>Rhythmogenesis and Modulation of Sensory-Evoked Responses. Journal of Neurophysiology, 2009, 102,<br>3554-3572. | 1.8  | 203       |
| 38 | Multimodal Functional Imaging Using fMRI-Informed Regional EEG/MEG Source Estimation. Lecture<br>Notes in Computer Science, 2009, , 88-100.  | 1.3  | 2         |
| 39 | A Distributed Spatio-temporal EEG/MEG Inverse Solver. Lecture Notes in Computer Science, 2008, 11, 26-34.  | 1.3  | 6         |
| 40 | Parallel input makes the brain run faster. NeuroImage, 2008, 40, 1792-1797.  | 4.2  | 40        |
| 41 | Spatiotemporal Mapping the Neural Correlates of Acupuncture with MEG. Journal of Alternative and Complementary Medicine, 2008, 14, 679-688.  | 2.1  | 15        |
| 42 | Early visual brain areas reflect the percept of an ambiguous scene. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20500-20504.                               | 7.1  | 90        |
| 43 | Neural Correlates of Tactile Detection: A Combined Magnetoencephalography and Biophysically Based<br>Computational Modeling Study. Journal of Neuroscience, 2007, 27, 10751-10764.                         | 3.6  | 142       |
| 44 | MRI-constrained spectral imaging of benzodiazepine modulation of spontaneous neuromagnetic activity in human cortex. NeuroImage, 2007, 35, 577-582.  | 4.2  | 41        |
| 45 | Sources of Variability in MEG. , 2007, 10, 751-759.  |      | 11        |
| 46 | Task-modulated "what" and "where" pathways in human auditory cortex. Proceedings of the National<br>Academy of Sciences of the United States of America, 2006, 103, 14608-14613.                           | 7.1  | 315       |
| 47 | Magnetoencephalographic Characterization of Dynamic Brain Activation: Basic Principles and Methods of Data Collection and Source Analysis. , 2002, , 227-253.  |      | 43        |
| 48 | Magnetoencephalography—theory, instrumentation, and applications to noninvasive studies of the<br>working human brain. Reviews of Modern Physics, 1993, 65, 413-497.                                       | 45.6 | 3,939     |
| 49 | Human auditory cortical mechanisms of sound lateralization: I. Interaural time differences within sound. Hearing Research, 1993, 67, 89-97.  | 2.0  | 42        |
| 50 | Seeing speech: visual information from lip movements modifies activity in the human auditory cortex.<br>Neuroscience Letters, 1991, 127, 141-145.  | 2.1  | 371       |
| 51 | Landau-Kleffner syndrome. NeuroReport, 1991, 2, 201-204.   | 1.2  | 55        |
| 52 | Cortical Activity Elicited by Changes in Auditory Stimuli: Different Sources for the Magnetic N1OOm and Mismatch Responses. Psychophysiology, 1991, 28, 21-29.   | 2.4  | 131       |
| 53 | MEG versus EEG localization test. Annals of Neurology, 1991, 30, 222-223.  | 5.3  | 24        |
| 54 | Neuromagnetic steadyâ€state responses to auditory stimuli. Journal of the Acoustical Society of<br>America, 1989, 86, 1033-1039.   | 1.1  | 178       |

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|----|---|-----|-----------|
| 55 | A Novel Approach to Estimating the Cortical Sources of Sleep Spindles Using Simultaneous EEG/MEG.<br>Frontiers in Neurology, 0, 13, . | 2.4 | 1         |