

Jyrki Mäkelä

List of Publications by Year in descending order

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119
papers

4,764
citations

71061

41
h-index

110317

64
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119
all docs

119
docs citations

119
times ranked

4318
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparison of Language Mapping by Preoperative Navigated Transcranial Magnetic Stimulation and Direct Cortical Stimulation During Awake Surgery. <i>Neurosurgery</i> , 2013, 72, 808-819.	0.6	271
2	Reproducibility of TMS- Evoked EEG responses. <i>Human Brain Mapping</i> , 2009, 30, 1387-1396.	1.9	244
3	Magnetoencephalographic cortical rhythms. <i>International Journal of Psychophysiology</i> , 1997, 26, 51-62.	0.5	243
4	Protocol for motor and language mapping by navigated TMS in patients and healthy volunteers; workshop report. <i>Acta Neurochirurgica</i> , 2017, 159, 1187-1195.	0.9	165
5	A novel approach for documenting naming errors induced by navigated transcranial magnetic stimulation. <i>Journal of Neuroscience Methods</i> , 2012, 204, 349-354.	1.3	128
6	Sources of auditory brainstem responses revisited: Contribution by magnetoencephalography. <i>Human Brain Mapping</i> , 2009, 30, 1772-1782.	1.9	124
7	Sensorimotor Cortex Localization: Comparison of Magnetoencephalography, Functional MR Imaging, and Intraoperative Cortical Mapping. <i>Radiology</i> , 2006, 241, 213-222.	3.6	120
8	Functional differences between auditory cortices of the two hemispheres revealed by whole-head neuromagnetic recordings. <i>Human Brain Mapping</i> , 1993, 1, 48-56.	1.9	107
9	Hybrid ultra-low-field MRI and magnetoencephalography system based on a commercial whole-head neuromagnetometer. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1795-1804.	1.9	106
10	Human auditory cortex is activated by omissions of auditory stimuli. <i>Brain Research</i> , 1997, 745, 134-143.	1.1	105
11	Magnetoencephalography in Neurosurgery. <i>Neurosurgery</i> , 2006, 59, 493-511.	0.6	95
12	Seizures Associated with Propofol Anesthesia. <i>Epilepsia</i> , 1993, 34, 832-835.	2.6	92
13	MAGNETOENCEPHALOGRAPHY IN NEUROSURGERY. <i>Neurosurgery</i> , 2007, 61, 493-511.	0.6	92
14	Transcutaneous vagus nerve stimulation in tinnitus: a pilot study. <i>Acta Oto-Laryngologica</i> , 2013, 133, 378-382.	0.3	92
15	Three-dimensional integration of brain anatomy and function to facilitate intraoperative navigation around the sensorimotor strip. <i>Human Brain Mapping</i> , 2001, 12, 180-192.	1.9	86
16	A multicenter study of the early detection of synaptic dysfunction in Mild Cognitive Impairment using Magnetoencephalography-derived functional connectivity. <i>NeuroImage: Clinical</i> , 2015, 9, 103-109.	1.4	79
17	Navigated transcranial magnetic stimulation for preoperative language mapping in a patient with a left frontoopercular glioblastoma. <i>Journal of Neurosurgery</i> , 2013, 118, 175-179.	0.9	69
18	SQUIDS in biomagnetism: a roadmap towards improved healthcare. <i>Superconductor Science and Technology</i> , 2016, 29, 113001.	1.8	67

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19	Abrupt unilateral deafness modifies function of human auditory pathways. <i>NeuroReport</i> , 1995, 6, 961-964.	0.6	61
20	Auditory pathway plasticity in adult humans after unilateral idiopathic sudden sensorineural hearing loss. <i>Hearing Research</i> , 1995, 87, 132-140.	0.9	60
21	Theta brain rhythms index perceptual narrowing in infant speech perception. <i>Frontiers in Psychology</i> , 2013, 4, 690.	1.1	60
22	Combined use of non-invasive techniques for improved functional localization for a selected group of epilepsy surgery candidates. <i>NeuroImage</i> , 2009, 45, 342-348.	2.1	59
23	Effect of afferent input on motor cortex excitability during stroke recovery. <i>Clinical Neurophysiology</i> , 2012, 123, 2429-2436.	0.7	58
24	Human cortical representation of virtual auditory space: differences between sound azimuth and elevation. <i>European Journal of Neuroscience</i> , 2002, 16, 2207-2213.	1.2	55
25	Sensitivity and specificity of seizure onset zone estimation by ictal magnetoencephalography. <i>Epilepsia</i> , 2012, 53, 1649-1657.	2.6	54
26	Temporal integration and oscillatory responses of the human auditory cortex revealed by evoked magnetic fields to click trains. <i>Hearing Research</i> , 1993, 68, 89-96.	0.9	53
27	[18F]FDG-PET and Whole-Scalp MEG Localization of Epileptogenic Cortex. <i>Epilepsia</i> , 1999, 40, 921-930.	2.6	52
28	Effects of DBS on auditory and somatosensory processing in Parkinson's disease. <i>Human Brain Mapping</i> , 2011, 32, 1091-1099.	1.9	51
29	MEG dual scanning: a procedure to study real-time auditory interaction between two persons. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 83.	1.0	50
30	Human auditory cortical mechanisms of sound lateralisation: III. Monaural and binaural shift responses. <i>Hearing Research</i> , 1994, 81, 91-99.	0.9	49
31	Relation Between Frontal 7 Hz MEG Activity and the Efficacy of ECT in Major Depression. <i>Journal of ECT</i> , 2001, 17, 136-140.	0.3	49
32	Brachial Plexus Lesions after Backpack Carriage in Young Adults. <i>Clinical Orthopaedics and Related Research</i> , 2006, 452, 205-209.	0.7	49
33	Interictal MEG reveals focal cortical dysplasias: Special focus on patients with no visible MRI lesions. <i>Epilepsy Research</i> , 2013, 105, 337-348.	0.8	49
34	Alterations in Spontaneous Brain Oscillations during Stroke Recovery. <i>PLoS ONE</i> , 2013, 8, e61146.	1.1	49
35	Applicability of nTMS in locating the motor cortical representation areas in patients with epilepsy. <i>Acta Neurochirurgica</i> , 2013, 155, 507-518.	0.9	48
36	Effects of navigated TMS on object and action naming. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 660.	1.0	46

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37	Auditory evoked fields to illusory sound source movements. <i>Experimental Brain Research</i> , 1996, 110, 446-54.	0.7	45
38	Parietal epileptic mirror focus detected with a whole-head neuromagnetometer. <i>NeuroReport</i> , 1993, 5, 45-48.	0.6	44
39	Somatomotor mu rhythm amplitude correlates with rigidity during deep brain stimulation in Parkinsonian patients. <i>Clinical Neurophysiology</i> , 2012, 123, 2010-2017.	0.7	44
40	Magnetoencephalography as a Putative Biomarker for Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-10.	1.1	43
41	Long-Term Paired Associative Stimulation Enhances Motor Output of the Tetraplegic Hand. <i>Journal of Neurotrauma</i> , 2017, 34, 2668-2674.	1.7	43
42	Effect of interaural time differences on middle-latency and late auditory evoked magnetic fields. <i>Hearing Research</i> , 1994, 78, 249-257.	0.9	42
43	Functional Plasticity of the Motor Cortical Structures Demonstrated by Navigated TMS in Two Patients with Epilepsy. <i>Brain Stimulation</i> , 2013, 6, 286-291.	0.7	42
44	Central poststroke pain in young ischemic stroke survivors in the Helsinki Young Stroke Registry. <i>Neurology</i> , 2014, 83, 1147-1154.	1.5	42
45	Assessing sleep state in calves through electrophysiological and behavioural recordings: A preliminary study. <i>Applied Animal Behaviour Science</i> , 2008, 111, 235-250.	0.8	41
46	Modification of neuromagnetic cortical signals by thalamic infarctions. <i>Electroencephalography and Clinical Neurophysiology</i> , 1998, 106, 433-443.	0.3	40
47	Parallel input makes the brain run faster. <i>NeuroImage</i> , 2008, 40, 1792-1797.	2.1	40
48	The use of F-response in defining interstimulus intervals appropriate for LTP-like plasticity induction in lower limb spinal paired associative stimulation. <i>Journal of Neuroscience Methods</i> , 2015, 242, 112-117.	1.3	39
49	Transcutaneous Vagus Nerve Stimulation Modulates Tinnitus-Related Beta- and Gamma-Band Activity. <i>Ear and Hearing</i> , 2015, 36, e76-e85.	1.0	37
50	Serial processing of the somesthetic information revealed by different effects of stimulus rate on the somatosensory-evoked potentials and magnetic fields. <i>Brain Research</i> , 1998, 791, 200-208.	1.1	36
51	Long-term paired associative stimulation can restore voluntary control over paralyzed muscles in incomplete chronic spinal cord injury patients. <i>Spinal Cord Series and Cases</i> , 2016, 2, 16016.	0.3	36
52	Reorganization of the primary somatosensory cortex during stroke recovery. <i>Clinical Neurophysiology</i> , 2011, 122, 339-345.	0.7	35
53	Cortico-muscular coherence in advanced Parkinson's disease with deep brain stimulation. <i>Clinical Neurophysiology</i> , 2015, 126, 748-755.	0.7	35
54	Two Distinct Auditory-Motor Circuits for Monitoring Speech Production as Revealed by Content-Specific Suppression of Auditory Cortex. <i>Cerebral Cortex</i> , 2015, 25, 1576-1586.	1.6	34

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55	Combining rTMS With Intensive Language-Action Therapy in Chronic Aphasia: A Randomized Controlled Trial. <i>Frontiers in Neuroscience</i> , 2018, 12, 1036.	1.4	34
56	Auditory cortical responses in humans with congenital unilateral conductive hearing loss. <i>Hearing Research</i> , 1994, 78, 91-97.	0.9	33
57	Paired Associative Stimulation with High-Frequency Peripheral Component Leads to Enhancement of Corticospinal Transmission at Wide Range of Interstimulus Intervals. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 470.	1.0	33
58	Dorsal penile nerve stimulation elicits left-hemisphere dominant activation in the second somatosensory cortex. <i>Human Brain Mapping</i> , 2003, 18, 90-99.	1.9	31
59	Distributions and sources of magnetoencephalographic K-complexes. <i>Electroencephalography and Clinical Neurophysiology</i> , 1996, 99, 544-555.	0.3	30
60	Auditory cortical responses in humans with profound unilateral sensorineural hearing loss from early childhood. <i>Hearing Research</i> , 1997, 104, 183-190.	0.9	30
61	An Internet-Based Real-Time Audiovisual Link for Dual MEG Recordings. <i>PLoS ONE</i> , 2015, 10, e0128485.	1.1	30
62	Hemispheric differences in processing tone frequency and amplitude modulations. <i>NeuroReport</i> , 1999, 10, 3081-3086.	0.6	28
63	Spatiotemporal Dynamics of the Processing of Spoken Inflected and Derived Words: A Combined EEG and MEG Study. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 66.	1.0	28
64	Paired associative stimulation improves hand function after non-traumatic spinal cord injury: A case series. <i>Clinical Neurophysiology Practice</i> , 2019, 4, 178-183.	0.6	28
65	Spontaneous sensorimotor cortical activity is suppressed by deep brain stimulation in patients with advanced Parkinson's disease. <i>Neuroscience Letters</i> , 2018, 683, 48-53.	1.0	25
66	Accelerometer-based automatic voice onset detection in speech mapping with navigated repetitive transcranial magnetic stimulation. <i>Journal of Neuroscience Methods</i> , 2015, 253, 70-77.	1.3	24
67	Language mapping with navigated transcranial magnetic stimulation in pediatric and adult patients undergoing epilepsy surgery: Comparison with extraoperative direct cortical stimulation. <i>Epilepsia Open</i> , 2018, 3, 224-235.	1.3	24
68	Restoration of hand function with long-term paired associative stimulation after chronic incomplete tetraplegia: a case study. <i>Spinal Cord Series and Cases</i> , 2019, 5, 81.	0.3	24
69	Suppression of magnetic δ rhythm during parkinsonian tremor. <i>Brain Research</i> , 1993, 617, 189-193.	1.1	22
70	Increasing the frequency of peripheral component in paired associative stimulation strengthens its efficacy. <i>Scientific Reports</i> , 2019, 9, 3849.	1.6	22
71	Arnold-Chiari Malformation Type I in Military Conscripts: Symptoms and Effects on Service Fitness. <i>Military Medicine</i> , 2006, 171, 174-176.	0.4	19
72	Activation in parietal operculum parallels motor recovery in stroke. <i>Human Brain Mapping</i> , 2012, 33, 534-541.	1.9	19

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73	A Randomized, Sham-Controlled Trial of Repetitive Transcranial Magnetic Stimulation Targeting M1 and S2 in Central Poststroke Pain: A Pilot Trial. <i>Neuromodulation</i> , 2022, 25, 538-548.	0.4	19
74	Recovery of brachial plexus lesions resulting from heavy backpack use: A follow-up case series. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 62.	0.8	17
75	Cortico-muscular coherence parallels coherence of postural tremor and MEG during static muscle contraction. <i>Neuroscience Letters</i> , 2015, 602, 22-26.	1.0	17
76	Acquisition and consolidation of novel morphology in human neocortex: A neuromagnetic study. <i>Cortex</i> , 2016, 83, 1-16.	1.1	17
77	Effects of Intensity Variation on Human Auditory Evoked Magnetic Fields. <i>Acta Oto-Laryngologica</i> , 1995, 115, 616-621.	0.3	16
78	Modification of auditory pathway functions in patients with hearing improvement after middle ear surgery. <i>Otolaryngology - Head and Neck Surgery</i> , 1998, 119, 125-130.	1.1	15
79	Cortical Excitability Measured with nTMS and MEG during Stroke Recovery. <i>Neural Plasticity</i> , 2015, 2015, 1-8.	1.0	15
80	Context affects L1 but not L2 during bilingual word recognition: An MEG study. <i>Brain and Language</i> , 2015, 142, 8-17.	0.8	14
81	Language control mechanisms differ for native languages: Neuromagnetic evidence from trilingual language switching. <i>Neuropsychologia</i> , 2017, 107, 108-120.	0.7	14
82	A novel paired associative stimulation protocol with a high-frequency peripheral component: A review on results in spinal cord injury rehabilitation. <i>European Journal of Neuroscience</i> , 2021, 53, 3242-3257.	1.2	14
83	Trigeminally triggered epileptic hemifacial convulsions. <i>NeuroReport</i> , 1995, 6, 918-920.	0.6	13
84	Auditory Pathway Function after Vestibular Schwannoma Surgery. <i>Acta Oto-Laryngologica</i> , 2001, 121, 378-383.	0.3	11
85	The role of attention in processing morphologically complex spoken words: an EEG/MEG study. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 353.	1.0	11
86	Integrating nTMS Data into a Radiology Picture Archiving System. <i>Journal of Digital Imaging</i> , 2015, 28, 428-432.	1.6	11
87	Effects of Long-Term Paired Associative Stimulation on Strength of Leg Muscles and Walking in Chronic Tetraplegia: A Proof-of-Concept Pilot Study. <i>Frontiers in Neurology</i> , 2020, 11, 397.	1.1	11
88	Probing Modifications of Cortical Excitability During Stroke Recovery With Navigated Transcranial Magnetic Stimulation. <i>Topics in Stroke Rehabilitation</i> , 2012, 19, 182-192.	1.0	10
89	Auditory evoked magnetic fields in stroke. <i>Physiological Measurement</i> , 1993, 14, A51-A54.	1.2	9
90	Quantifying the contribution of video in combined video-magnetoencephalographic ictal recordings of epilepsy patients. <i>Epilepsy Research</i> , 2013, 105, 405-409.	0.8	9

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91	Enabling and promoting walking rehabilitation by paired associative stimulation after incomplete paraplegia: a case report. <i>Spinal Cord Series and Cases</i> , 2020, 6, 72.	0.3	9
92	Auditory Cortical Responses in Patients with Bell's Palsy. <i>Acta Oto-Laryngologica</i> , 2000, 120, 47-50.	0.3	7
93	The impact of TMS and PNS frequencies on MEP potentiation in PAS with high-frequency peripheral component. <i>PLoS ONE</i> , 2020, 15, e0233999.	1.1	7
94	State-dependent TMS effects in the visual cortex after visual adaptation: a combined TMS-EEG study. <i>Clinical Neurophysiology</i> , 2021, , .	0.7	7
95	Discolouration of skin and serum after sweet ingestion. <i>Lancet, The</i> , 1993, 341, 1476-1477.	6.3	6
96	Neuromagnetic sequelae of herpes simplex encephalitis. <i>Electroencephalography and Clinical Neurophysiology</i> , 1998, 106, 251-258.	0.3	6
97	Auditory Mapping With MEG: An Update on the Current State of Clinical Research and Practice With Considerations for Clinical Practice Guidelines. <i>Journal of Clinical Neurophysiology</i> , 2020, 37, 574-584.	0.9	6
98	Neuromagnetic cortical signals in a patient with hydrocephalus. <i>NeuroReport</i> , 1994, 5, 1125-1128.	0.6	4
99	Obstructive Sleep Apnea in Loudly Snoring Army Conscripts. <i>Military Medicine</i> , 2007, 172, 879-881.	0.4	4
100	Virtual MEG Helmet: Computer Simulation of an Approach to Neuromagnetic Field Sampling. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 539-548.	3.9	4
101	Neural mechanisms underlying word- and phrase-level morphological parsing. <i>Journal of Neurolinguistics</i> , 2016, 38, 26-41.	0.5	4
102	Hybrid ultra-low-field MRI and magnetoencephalography system based on a commercial whole-head neuromagnetometer. <i>Magnetic Resonance in Medicine</i> , 2013, 69, spcone-spcone.	1.9	3
103	Neuromagnetic speech discrimination responses are associated with reading-related skills in dyslexic and typical readers. <i>Heliyon</i> , 2020, 6, e04619.	1.4	3
104	Magnetoencephalographic Abnormalities in Creutzfeldt-Jakob Disease: A Case Report. <i>Case Reports in Neurology</i> , 2010, 2, 122-127.	0.3	2
105	Localization of Sensorimotor Cortex Using Navigated Transcranial Magnetic Stimulation and Magnetoencephalography. <i>Brain Topography</i> , 2019, 32, 873-881.	0.8	2
106	Effect of long-term paired associative stimulation on the modulation of cortical sensorimotor oscillations after spinal cord injury. <i>Spinal Cord Series and Cases</i> , 2022, 8, 38.	0.3	2
107	Modulation of sensory cortical activity by deep brain stimulation in advanced Parkinson's disease. <i>European Journal of Neuroscience</i> , 2022, 56, 3979-3990.	1.2	2
108	Myotonias and Army Personnel: Symptoms and Effects on Service Fitness. <i>Military Medicine</i> , 2005, 170, 806-809.	0.4	1

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109	nTMS Language Mapping: Basic Principles and Clinical Use. , 2017, , 131-150.		1
110	A New Paired Associative Stimulation Protocol with High-Frequency Peripheral Component and High-Intensity 20 Hz Repetitive Transcranial Magnetic Stimulationâ€”A Pilot Study. International Journal of Environmental Research and Public Health, 2021, 18, 11224.	1.2	1
111	Deep brain stimulation of subthalamic nucleus modulates cortical auditory processing in advanced Parkinsonâ€™s Disease. PLoS ONE, 2022, 17, e0264333.	1.1	1
112	Chapter 29 Comparison between preoperative and intraoperative localization of cortical function in patients with brain tumors. Supplements To Clinical Neurophysiology, 2006, 59, 213-218.	2.1	0
113	Combination of MEG and MRI in one setup. Biomedizinische Technik, 2012, 57, .	0.9	0
114	The use of electronic coil location control for focal magnetic stimulation at the cervical level. Journal of Neuroscience Methods, 2019, 328, 108444.	1.3	0
115	Thalamic Alterations in Schizophrenia. American Journal of Psychiatry, 2001, 158, 323-a-324.	4.0	0
116	Future Developments in Clinical MEG and Its Combination with nTMS. , 2014, , 933-938.		0
117	Navigated Transcranial Magnetic Stimulation in Planning Epilepsy Surgery. , 2019, , 67-74.		0
118	Developments in Clinical MEG and Its Combination with Navigated TMS. , 2019, , 1195-1202.		0
119	Developments in Clinical MEG and Its Combination with Navigated TMS. , 2019, , 1-8.		0