Martin Meyer

List of Publications by Year
in descending order

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123 papers	6,906 citations	53794 45 h-index	66911 78 g-index
136 all docs	136 docs citations	136 times ranked	6057 citing authors

#	Article	IF	Citations
1	Auditory Language Comprehension: An Event-Related fMRI Study on the Processing of Syntactic and Lexical Information. Brain and Language, 2000, 74, 289-300.	1.6	385
2	FMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. Human Brain Mapping, 2002, 17, 73-88.	3.6	307
3	On the lateralization of emotional prosody: An event-related functional MR investigation. Brain and Language, 2003, 86, 366-376.	1.6	273
4	White matter plasticity in the corticospinal tract of musicians: A diffusion tensor imaging study. NeuroImage, 2009, 46, 600-607.	4.2	247
5	Brain activity varies with modulation of dynamic pitch variance in sentence melody. Brain and Language, 2004, 89, 277-289.	1.6	204
6	A network for audioâ€“motor coordination in skilled pianists and non-musicians. Brain Research, 2007, 1161, 65-78.	2.2	201
7	Visual activation of auditory cortex reflects maladaptive plasticity in cochlear implant users. Brain, 2012, 135, 555-568.	7.6	195
8	Neurocognition of auditory sentence comprehension: event related fMRI reveals sensitivity to syntactic violations and task demands. Cognitive Brain Research, 2000, 9, 19-33.	3.0	186
9	Editorial: Towards an Understanding of Tinnitus Heterogeneity. Frontiers in Aging Neuroscience, 2019, 11, 53.	3.4	157
10	The functional anatomy of inspection time: an event-related fMRI study. NeuroImage, 2004, 22, 1466-1479.	4.2	151
11	fMRI in Patients With Motor Conversion Symptoms and Controls With Simulated Weakness. Psychosomatic Medicine, 2007, 69, 961-969.	2.0	147
12	Evidence for rapid auditory perception as the foundation of speech processing: a sparse temporal sampling fMRI study. European Journal of Neuroscience, 2004, 20, 2447-2456.	2.6	134
13	Working memory constraints on syntactic ambiguity resolution as revealed by electrical brain responses. Biological Psychology, 1998, 47, 193-221.	2.2	122
14	The plasticity of the superior longitudinal fasciculus as a function of musical expertise: a diffusion tensor imaging study. Frontiers in Human Neuroscience, 2009, 3, 76.	2.0	122
15	The hypothesis of neuronal interconnectivity as a function of brain sizeÃ¢â‚¬â€a general organization principle of the human connectome. Frontiers in Human Neuroscience, 2014, 8, 915.	2.0	113
16	The Neural Correlate of Speech Rhythm as Evidenced by Metrical Speech Processing. Journal of Cognitive Neuroscience, 2008, 20, 541-552.	2.3	107
17	Distinct fMRI responses to laughter, speech, and sounds along the human peri-sylvian cortex. Cognitive Brain Research, 2005, 24, 291-306.	3.0	103
18	Absolute Pitch--Functional Evidence of Speech-Relevant Auditory Acuity. Cerebral Cortex, 2010, 20, 447-455.	2.9	103

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19	Early electrophysiological correlates of meter and rhythm processing in music perception. Cortex, 2009, 45, 93-102.	2.4	99
20	Enhancement of Auditory-evoked Potentials in Musicians Reflects an Influence of Expertise but not Selective Attention. Journal of Cognitive Neuroscience, 2008, 20, 2238-2249.	2.3	94
21	Direct current induced short-term modulation of the left dorsolateral prefrontal cortex while learning auditory presented nouns. Behavioral and Brain Functions, 2009, 5, 29.	3.3	87
22	Cortical Surface Area and Cortical Thickness Demonstrate Differential Structural Asymmetry in Auditory-Related Areas of the Human Cortex. Cerebral Cortex, 2014, 24, 2541-2552.	2.9	86
23	On the relationship between auditory cognition and speech intelligibility in cochlear implant users: An ERP study. Neuropsychologia, 2016, 87, 169-181.	1.6	85
24	Neurophysiological evidence of impaired musical sound perception in cochlear-implant users. Clinical Neurophysiology, 2010, 121, 2070-2082.	1.5	82
25	Neurofunctional and Behavioral Correlates of Phonetic and Temporal Categorization in Musically Trained and Untrained Subjects. Cerebral Cortex, 2012, 22, 650-658.	2.9	82
26	Segmental processing in the human auditory dorsal stream. Brain Research, 2008, 1220, 179-190.	2.2	79
27	Sequential effects of propofol on functional brain activation induced by auditory language processing: an event-related functional magnetic resonance imaging study. British Journal of Anaesthesia, 2004, 92, 641-650.	3.4	78
28	Differential force scaling of fineâ€graded power grip force in the sensorimotor network. Human Brain Mapping, 2009, 30, 2453-2465.	3.6	76
29	Cortical and subcortical correlates of functional electrical stimulation of wrist extensor and flexor muscles revealed by fMRI. Human Brain Mapping, 2009, 30, 963-975.	3.6	74
30	Increased cortical surface area of the left planum temporale in musicians facilitates the categorization of phonetic and temporal speech sounds. Cortex, 2013, 49, 2812-2821.	2.4	74
31	The encoding of vowels and temporal speech cues in the auditory cortex of professional musicians: An EEG study. Neuropsychologia, 2013, 51, 1608-1618.	1.6	73
32	Lateralization of emotional prosody in the brain: an overview and synopsis on the impact of study design. Progress in Brain Research, 2006, 156, 285-294.	1.4	72
33	Innovations in Doctoral Training and Research on Tinnitus: The European School on Interdisciplinary Tinnitus Research (ESIT) Perspective. Frontiers in Aging Neuroscience, 2017, 9, 447.	3.4	72
34	Evaluation of evoked potentials to dyadic tones after cochlear implantation. Brain, 2009, 132, 1967-1979.	7.6	70
35	Refinement of metre perception â€“ training increases hierarchical metre processing. European Journal of Neuroscience, 2010, 32, 1979-1985.	2.6	66
36	Electrical brain imaging reveals spatio-temporal dynamics of timbre perception in humans. NeuroImage, 2006, 32, 1510-1523.	4.2	64

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37	The brain knows the difference: two types of grammatical violations. Brain Research, 2004, 1000, 72-77.	2.2	62
38	Differential language expertise related to white matter architecture in regions subserving sensoryâ€motor coupling, articulation, and interhemispheric transfer. Human Brain Mapping, 2011, 32, 2064-2074.	3.6	57
39	Silent and continuous fMRI scanning differentially modulate activation in an auditory language comprehension task. Human Brain Mapping, 2008, 29, 46-56.	3.6	56
40	Language in the brain at rest: new insights from resting state data and graph theoretical analysis. Frontiers in Human Neuroscience, 2014, 8, 228.	2.0	55
41	Spectro-temporal processing during speech perception involves left posterior auditory cortex. NeuroReport, 2005, 16, 1985-1989.	1.2	54
42	Disentangling Tinnitus Distress and Tinnitus Presence by Means of EEG Power Analysis. Neural Plasticity, 2014, 2014, 1-13.	2.2	52
43	A Network for Sensory-Motor Integration: What Happens in the Auditory Cortex during Piano Playing without Acoustic Feedback?. Annals of the New York Academy of Sciences, 2005, 1060, 186-188.	3.8	51
44	How the brain laughs. Behavioural Brain Research, 2007, 182, 245-260.	2.2	51
45	Electrical brain imaging evidences left auditory cortex involvement in speech and non-speech discrimination based on temporal features. Behavioral and Brain Functions, 2007, 3, 63.	3.3	51
46	Processing of voiced and unvoiced acoustic stimuli in musicians. Frontiers in Psychology, 2011, 2, 195.	2.1	50
47	Simultaneous interpreters as a model for neuronal adaptation in the domain of language processing. Brain Research, 2010, 1317, 147-156.	2.2	48
48	Effects of prior information on decoding degraded speech: An fMRI study. Human Brain Mapping, 2014, 35, 61-74.	3.6	48
49	Differential tinnitus-related neuroplastic alterations of cortical thickness and surface area. Hearing Research, 2016, 342, 1-12.	2.0	47
50	Which tinnitus-related characteristics affect current health-related quality of life and depression? A cross-sectional cohort study. Psychiatry Research, 2016, 237, 114-121.	3.3	47
51	40Hz-Transcranial alternating current stimulation (tACS) selectively modulates speech perception. International Journal of Psychophysiology, 2016, 101, 18-24.	1.0	45
52	Comparison of â€œsilentâ€•clustered and sparse temporal fMRI acquisitions in tonal and speech perception tasks. NeuroImage, 2007, 37, 1195-1204.	4.2	44
53	ERP differences of pre-lexical processing between dyslexic and non-dyslexic children. International Journal of Psychophysiology, 2010, 77, 59-69.	1.0	43
54	Long-term exposure to music enhances the sensitivity of the auditory system in children. European Journal of Neuroscience, 2011, 34, 755-765.	2.6	43

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55	Transcranial Alternating Current Stimulation (tACS) differentially modulates speech perception in young and older adults. Brain Stimulation, 2016, 9, 560-565.	1.6	43
56	The impact of hearing aids and age-related hearing loss on auditory plasticity across three months â€“ An electrical neuroimaging study. Hearing Research, 2017, 353, 162-175.	2.0	42
57	Neural predictive error signal correlates with depressive illness severity in a game paradigm. NeuroImage, 2004, 23, 269-280.	4.2	41
58	Computer-based learning of spelling skills in children with and without dyslexia. Annals of Dyslexia, 2011, 61, 177-200.	1.7	41
59	Neuroanatomical and resting state EEG power correlates of central hearing loss in older adults. Brain Structure and Function, 2018, 223, 145-163.	2.3	40
60	Multi- and unisensory decoding of words and nonwords result in differential brain responses in dyslexic and nondyslexic adults. Brain and Language, 2011, 119, 136-148.	1.6	38
61	Short-term plasticity in the auditory system: differential neural responses to perception and imagery of speech and music. Restorative Neurology and Neuroscience, 2007, 25, 411-31.	0.7	37
62	Functional MR imaging exposes differential brain responses to syntax and prosody during auditory sentence comprehension. Journal of Neurolinguistics, 2003, 16, 277-300.	1.1	35
63	Musical expertise induces neuroplasticity of the planum temporale. Annals of the New York Academy of Sciences, 2012, 1252, 116-123.	3.8	34
64	Musicianship Boosts Perceptual Learning of Pseudoword-Chimeras: An Electrophysiological Approach. Brain Topography, 2013, 26, 110-125.	1.8	33
65	Ageâ€related differences in auditory evoked potentials as a function of task modulation during speechâ€“nonspeech processing. Brain and Behavior, 2014, 4, 21-28.	2.2	33
66	Transcranial electrical stimulation improves phoneme processing in developmental dyslexia. Brain Stimulation, 2019, 12, 930-937.	1.6	33
67	Neurofeedback for Tinnitus Treatment â€“ Review and Current Concepts. Frontiers in Aging Neuroscience, 2017, 9, 386.	3.4	32
68	Investigating the Efficacy of an Individualized Alpha/Delta Neurofeedback Protocol in the Treatment of Chronic Tinnitus. Neural Plasticity, 2019, 2019, 1-15.	2.2	31
69	An Empirical Reevaluation of Absolute Pitch: Behavioral and Electrophysiological Measurements. Journal of Cognitive Neuroscience, 2013, 25, 1736-1753.	2.3	30
70	Music and Language Expertise Influence the Categorization of Speech and Musical Sounds: Behavioral and Electrophysiological Measurements. Journal of Cognitive Neuroscience, 2014, 26, 2356-2369.	2.3	30
71	EEG oscillatory power dissociates between distress- and depression-related psychopathology in subjective tinnitus. Brain Research, 2017, 1663, 194-204.	2.2	30
72	Hemodynamic responses in human multisensory and auditory association cortex to purely visual stimulation. BMC Neuroscience, 2007, 8, 14.	1.9	29

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73	Cortical thickness of supratemporal plane predicts auditory N1 amplitude. NeuroReport, 2012, 23, 1026-1030.	1.2	29
74	Real-time functional magnetic resonance imaging (rt-fMRI) in patients with brain tumours: preliminary findings using motor and language paradigms. British Journal of Neurosurgery, 2005, 19, 25-32.	0.8	28
75	Pre-attentive Spectro-temporal Feature Processing in the Human Auditory System. Brain Topography, 2009, 22, 97-108.	1.8	27
76	10 Hz Amplitude Modulated Sounds Induce Short-Term Tinnitus Suppression. Frontiers in Aging Neuroscience, 2017, 9, 130.	3.4	27
77	Intensive language training and attention modulate the involvement of fronto-parietal regions during a non-verbal auditory discrimination task. European Journal of Neuroscience, 2011, 34, 165-175.	2.6	25
78	Neuroplasticity of sign language: implications from structural and functional brain imaging. Restorative Neurology and Neuroscience, 2007, 25, 335-51.	0.7	25
79	Evolution of striatal degeneration in McLeod syndrome. European Journal of Neurology, 2010, 17, 612-618.	3.3	24
80	Bridging the brain structureâ€"brain function gap in prosodic speech processing in older adults. Neurobiology of Aging, 2019, 80, 116-126.	3.1	23
81	Cortical thickness of left Heschlâ€™s gyrus correlates with hearing acuity in adults â€“ A surface-based morphometry study. Hearing Research, 2019, 384, 107823.	2.0	22
82	Functions of the left and right posterior temporal lobes during segmental and suprasegmental speech perception. Zeitschrift FÃ¼r Neuropsychologie = Journal of Neuropsychology, 2008, 19, 101-115.	0.6	22
83	Pre-attentive modulation of brain responses to tones in coloured-hearing synesthetes. BMC Neuroscience, 2012, 13, 151.	1.9	20
84	On the planum temporale lateralization in suprasegmental speech perception: Evidence from a study investigating behavior, structure, and function. Human Brain Mapping, 2014, 35, 1779-1789.	3.6	20
85	Validation of PRISM (Pictorial Representation of Illness and Self Measure) as a novel visual assessment tool for the burden of suffering in tinnitus patients. Health and Quality of Life Outcomes, 2016, 14, 47.	2.4	20
86	Longitudinal auditory learning facilitates auditory cognition as revealed by microstate analysis. Biological Psychology, 2017, 123, 25-36.	2.2	18
87	Speech perception in tinnitus is related to individual distress level - A neurophysiological study. Hearing Research, 2018, 367, 48-58.	2.0	18
88	Comparison of Amplitude Modulated Sounds and Pure Tones at the Tinnitus Frequency: Residual Tinnitus Suppression and Stimulus Evaluation. Trends in Hearing, 2019, 23, 233121651983384.	1.3	18
89	Better speech-in-noise comprehension is associated with enhanced neural speech tracking in older adults with hearing impairment. Cortex, 2022, 151, 133-146.	2.4	18
90	Neural control of playing a reversed piano: empirical evidence for an unusual cortical organization of musical functions. NeuroReport, 2006, 17, 447-451.	1.2	17

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91	Reducing the Interval Between Volume Acquisitions Improves â€œSparseâ€•Scanning Protocols in Event-related Auditory fMRI. Brain Topography, 2012, 25, 182-193.	1.8	16
92	Tinnitus functional index: validation of the German version for Switzerland. Health and Quality of Life Outcomes, 2017, 15, 94.	2.4	15
93	Individual Differences in Peripheral Hearing and Cognition Reveal Sentence Processing Differences in Healthy Older Adults. Frontiers in Neuroscience, 2020, 14, 573513.	2.8	15
94	When right becomes less right: Neural dedifferentiation during suprasegmental speech processing in the aging brain. NeuroImage, 2019, 189, 886-895.	4.2	14
95	Accounting for Heterogeneity: Mixed-Effects Models in Resting-State EEG Data in a Sample of Tinnitus Sufferers. Brain Topography, 2020, 33, 413-424.	1.8	14
96	Right and left perisylvian cortex and left inferior frontal cortex mediate sentenceâ€level rhyme detection in spoken language as revealed by sparse fMRI. Human Brain Mapping, 2013, 34, 3182-3192.	3.6	13
97	fMRI reveals lateralized pattern of brain activity modulated by the metrics of stimuli during auditory rhyme processing. Brain and Language, 2015, 147, 41-50.	1.6	13
98	On the relationship between tinnitus distress, cognitive performance and aging. Progress in Brain Research, 2021, 262, 263-285.	1.4	13
99	Neural signatures of syntactic variation in speech planning. PLoS Biology, 2021, 19, e3001038.	5.6	13
100	Ecological Momentary Assessment based Differences between Android and iOS Users of the TrackYourHearing mHealth Crowdsensing Platform. , 2019, 2019, 3951-3955.		11
101	Interacting effects of frontal lobe neuroanatomy and working memory capacity to older listeners' speech recognition in noise. Neuropsychologia, 2021, 158, 107892.	1.6	11
102	Alexithymia Is Associated with Tinnitus Severity. Frontiers in Psychiatry, 2017, 8, 223.	2.6	9
103	Selective attention modulates neural envelope tracking of informationally masked speech in healthy older adults. Human Brain Mapping, 2021, 42, 3042-3057.	3.6	9
104	The spatiotemporal characteristics of elementary audiovisual speech and music processing in musically untrained subjects. International Journal of Psychophysiology, 2012, 83, 259-268.	1.0	8
105	Plasticity of Neural Systems in Tinnitus. Neural Plasticity, 2014, 2014, 1-2.	2.2	8
106	Age-Related Neural Oscillation Patterns During the Processing of Temporally Manipulated Speech. Brain Topography, 2016, 29, 440-458.	1.8	8
107	4. Research on Second Language Acquisition in Old Adulthood: What We Have and What We Need. , 2017, , 48-75.		8
108	Active listening to tinnitus and its relation to resting state EEG activity. Neuroscience Letters, 2019, 694, 176-183.	2.1	8

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109	Lower glutamate and GABA levels in auditory cortex of tinnitus patients: a 2D-JPRESS MR spectroscopy study. Scientific Reports, 2022, 12, 4068.	3.3	8
110	Are you surprised to hear this? Longitudinal spectral speech exposure in older compared to middleâ€aged normal hearing adults. European Journal of Neuroscience, 2018, 47, 58-68.	2.6	7
111	Combining neurofeedback with source estimation: Evaluation of an sLORETA neurofeedback protocol for chronic tinnitus treatment. Restorative Neurology and Neuroscience, 2020, 38, 283-299.	0.7	7
112	Working memory and not acoustic sensitivity is related to stress processing ability in a foreign language: An ERP study. Journal of Neurolinguistics, 2020, 55, 100897.	1.1	7
113	EEG Resting-State and Event-Related Potentials as Markers of Learning Success in Older Adults Following Second Language Training: A Pilot Study. Brain Plasticity, 2021, 7, 143-162.	3.5	6
114	Application of Latent Growth Curve modeling to predict individual trajectories during neurofeedback treatment for tinnitus. Progress in Brain Research, 2021, 263, 109-136.	1.4	5
115	Cognitive Benefits of Learning Additional Languages in Old Adulthood? Insights from an Intensive Longitudinal Intervention Study. Applied Linguistics, 2022, 43, 653-676.	2.4	5
116	Case Syncretism, Animacy, and Word Order in Continental West Germanic: Neurolinguistic Evidence from a Comparative Study on Standard German, Zurich German, and Fering (North Frisian). Journal of Germanic Linguistics, 2020, 32, 217-310.	0.1	4
117	Cross-linguistic differences in case marking shape neural power dynamics and gaze behavior during sentence planning. Brain and Language, 2022, 230, 105127.	1.6	4
118	Word stress processing integrates phonological abstraction with lexical access â€“ An ERP study. Journal of Neurolinguistics, 2021, 57, 100959.	1.1	3
119	Bilateral age-related atrophy in the planum temporale is associated with vowel discrimination difficulty in healthy older adults. Hearing Research, 2021, 406, 108252.	2.0	3
120	Transcranial electric and acoustic stimulation for tinnitus: study protocol for a randomized double-blind controlled trial assessing the influence of combined transcranial random noise and acoustic stimulation on tinnitus loudness and distress. Trials, 2022, 23, 418.	1.6	1
121	Refinement of metre perception - training increases hierarchical metre processing. European Journal of Neuroscience, 2011, 34, 2064-2064.	2.6	0
122	Auditorisches System. , 2013, , 345-358.		0
123	Recovering Hidden Responder Groups in Individuals Receiving Neurofeedback for Tinnitus. Frontiers in Neuroscience, 0, 16, .	2.8	0