

# Till Nierhaus

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,813  
citations

361296

20  
h-index

302012

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity of Newborn Auditory Cortex to the Temporal Structure of Sounds. <i>Journal of Neuroscience</i> , 2009, 29, 14726-14733.	1.7	226
2	Characterizing Acupuncture Stimuli Using Brain Imaging with fMRI - A Systematic Review and Meta-Analysis of the Literature. <i>PLoS ONE</i> , 2012, 7, e32960.	1.1	211
3	A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults. <i>Scientific Data</i> , 2019, 6, 180308.	2.4	188
4	Heart-brain interactions shape somatosensory perception and evoked potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10575-10584.	3.3	148
5	Acoustic Processing of Temporally Modulated Sounds in Infants: Evidence from a Combined Near-Infrared Spectroscopy and EEG Study. <i>Frontiers in Psychology</i> , 2011, 1, 62.	1.1	68
6	Brain Network Reconfiguration and Perceptual Decoupling During an Absorptive State of Consciousness. <i>Cerebral Cortex</i> , 2016, 26, 3116-3124.	1.6	57
7	Internal ventilation system of MR scanners induces specific EEG artifact during simultaneous EEG-fMRI. <i>NeuroImage</i> , 2013, 74, 70-76.	2.1	56
8	Inter-individual and age-dependent variability in simulated electric fields induced by conventional transcranial electrical stimulation. <i>NeuroImage</i> , 2021, 224, 117413.	2.1	56
9	Interhemispheric Interactions between the Human Primary Somatosensory Cortices. <i>PLoS ONE</i> , 2011, 6, e16150.	1.1	56
10	Immediate brain plasticity after one hour of brain-computer interface (BCI). <i>Journal of Physiology</i> , 2021, 599, 2435-2451.	1.3	50
11	Phasic Modulation of Human Somatosensory Perception by Transcranially Applied Oscillating Currents. <i>Brain Stimulation</i> , 2016, 9, 712-719.	0.7	48
12	Age-dependent effects of brain stimulation on network centrality. <i>NeuroImage</i> , 2018, 176, 71-82.	2.1	48
13	Relationship Between Changes in the Temporal Dynamics of the Blood-Oxygen-Level-Dependent Signal and Hypoperfusion in Acute Ischemic Stroke. <i>Stroke</i> , 2017, 48, 925-931.	1.0	44
14	Imperceptible Somatosensory Stimulation Alters Sensorimotor Background Rhythm and Connectivity. <i>Journal of Neuroscience</i> , 2015, 35, 5917-5925.	1.7	42
15	Alpha-Band Brain Oscillations Shape the Processing of Perceptible as well as Imperceptible Somatosensory Stimuli during Selective Attention. <i>Journal of Neuroscience</i> , 2017, 37, 6983-6994.	1.7	42
16	Respiration, Heartbeat, and Conscious Tactile Perception. <i>Journal of Neuroscience</i> , 2022, 42, 643-656.	1.7	42
17	Functional connectivity-based parcellation of the human sensorimotor cortex. <i>European Journal of Neuroscience</i> , 2014, 39, 1332-1342.	1.2	33
18	Differential cerebral response to somatosensory stimulation of an acupuncture point vs. two non-acupuncture points measured with EEG and fMRI. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 74.	1.0	29

#	ARTICLE	IF	CITATIONS
19	Modulation of Somatosensory Alpha Rhythm by Transcranial Alternating Current Stimulation at Mu-Frequency. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 432.	1.0	28
20	Dissociable neural correlates of stimulation intensity and detection in somatosensation. <i>NeuroImage</i> , 2020, 217, 116908.	2.1	27
21	Gamma and Beta Oscillations in Human MEG Encode the Contents of Vibrotactile Working Memory. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 576.	1.0	25
22	Electrical noise modulates perception of electrical pulses in humans: sensation enhancement via stochastic resonance. <i>Journal of Neurophysiology</i> , 2014, 111, 1238-1248.	0.9	22
23	Dissociating Perceptual Awareness and Postperceptual Processing: The P300 Is Not a Reliable Marker of Somatosensory Target Detection. <i>Journal of Neuroscience</i> , 2021, 41, 4686-4696.	1.7	22
24	Connections between Intraparietal Sulcus and a Sensorimotor Network Underpin Sustained Tactile Attention. <i>Journal of Neuroscience</i> , 2015, 35, 7938-7949.	1.7	21
25	Sustained Effects of Acupuncture Stimulation Investigated with Centrality Mapping Analysis. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 510.	1.0	21
26	Hypermetabolism in the hippocampal formation of cognitively impaired patients indicates detrimental maladaptation. <i>Neurobiology of Aging</i> , 2018, 65, 41-50.	1.5	21
27	Default Mode Network as a Neural Substrate of Acupuncture: Evidence, Challenges and Strategy. <i>Frontiers in Neuroscience</i> , 2019, 13, 100.	1.4	20
28	Background and evoked activity and their interaction in the human brain. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1140-1150.	1.0	19
29	Noninvasive Near-infrared Imaging of Fluorochromes within the Brains of Live Mice: An In Vivo Phantom Study. <i>Molecular Imaging</i> , 2006, 5, 7290.2006.00021.	0.7	18
30	Fluorescence tomography technique optimized for noninvasive imaging of the mouse brain. <i>Journal of Biomedical Optics</i> , 2008, 13, 041311.	1.4	17
31	Reduction of somatosensory functional connectivity by transcranial alternating current stimulation at endogenous mu-frequency. <i>NeuroImage</i> , 2020, 221, 117175.	2.1	17
32	Neural correlates of conscious tactile perception: An analysis of BOLD activation patterns and graph metrics. <i>NeuroImage</i> , 2021, 224, 117384.	2.1	16
33	Somatosensory Stimulation With XNKQ Acupuncture Modulates Functional Connectivity of Motor Areas. <i>Frontiers in Neuroscience</i> , 2019, 13, 147.	1.4	14
34	Simultaneous EEG-fMRI brain signatures of auditory cue utilization. <i>Frontiers in Neuroscience</i> , 2014, 8, 137.	1.4	12
35	The multimodal Ganzfeld-induced altered state of consciousness induces decreased thalamo-cortical coupling. <i>Scientific Reports</i> , 2020, 10, 18686.	1.6	10
36	Hysteresis as an Implicit Prior in Tactile Spatial Decision Making. <i>PLoS ONE</i> , 2014, 9, e89802.	1.1	9

#	ARTICLE	IF	CITATIONS
37	fMRI for the Assessment of Functional Connectivity. , 0, , .		7
38	A novel approach for assessing hypoperfusion in stroke using spatial independent component analysis of restingâ€state <scp>fMRI</scp>. Human Brain Mapping, 2021, 42, 5204-5216.	1.9	6
39	Positivity in Younger and in Older Age: Associations With Future Time Perspective and Socioemotional Functioning. Frontiers in Psychology, 2020, 11, 567133.	1.1	4
40	Difficulties Choosing Control Points in Acupuncture Research. Response: Commentary: Differential Cerebral Response, Measured with Both an EEG and fMRI, to Somatosensory Stimulation of a Single Acupuncture Point vs. Two Non-Acupuncture Points. Frontiers in Human Neuroscience, 2016, 10, 404.	1.0	3
41	Enhanced processing of aversive stimuli on embodied artificial limbs by the human amygdala. Scientific Reports, 2022, 12, 5778.	1.6	3
42	Imperceptible Somatosensory Single Pulse and Pulse Train Stimulation Oppositely Modulate Mu Rhythm Activity and Perceptual Performance. Cerebral Cortex, 2020, 30, 6284-6295.	1.6	2