

Markus Siegel

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

8,896
citations

182225

30
h-index

232693

48
g-index

65
all docs

65
docs citations

65
times ranked

9721
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral Fingerprints of Cortical Neuromodulation. <i>Journal of Neuroscience</i> , 2022, 42, 3836-3846.	1.7	5
2	Motion Coherence and Luminance Contrast Interact in Driving Visual Gamma-Band Activity. <i>Cerebral Cortex</i> , 2021, 31, 1622-1631.	1.6	2
3	Dissociating harmonic and non-harmonic phase-amplitude coupling in the human brain. <i>NeuroImage</i> , 2021, 227, 117648.	2.1	21
4	Optically pumped magnetometers reveal fasciculations non-invasively. <i>Clinical Neurophysiology</i> , 2021, 132, 2681-2684.	0.7	15
5	Cortical correlation structure of aperiodic neuronal population activity. <i>NeuroImage</i> , 2021, 245, 118672.	2.1	12
6	Task-evoked activity quenches neural correlations and variability across cortical areas. <i>PLoS Computational Biology</i> , 2020, 16, e1007983.	1.5	62
7	Dissociated neuronal phase- and amplitude-coupling patterns in the human brain. <i>NeuroImage</i> , 2020, 209, 116538.	2.1	79
8	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
9	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
10	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
11	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
12	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
13	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
14	Extracellular Spike Waveform Dissociates Four Functionally Distinct Cell Classes in Primate Cortex. <i>Current Biology</i> , 2019, 29, 2973-2982.e5.	1.8	67
15	Sensory processing and categorization in cortical and deep neural networks. <i>NeuroImage</i> , 2019, 202, 116118.	2.1	7
16	Monkey EEG links neuronal color and motion information across species and scales. <i>ELife</i> , 2019, 8, .	2.8	24
17	Analyzing EEG and MEG signals recorded during tES, a reply. <i>NeuroImage</i> , 2018, 167, 53-61.	2.1	49
18	Mid-Latency Auditory Evoked Potentials Differentially Predict Sedation and Drug Level Under Opioid and Hypnotic Agents. <i>Frontiers in Pharmacology</i> , 2018, 9, 1427.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Investigating large-scale brain dynamics using field potential recordings: analysis and interpretation. <i>Nature Neuroscience</i> , 2018, 21, 903-919.	7.1	299
20	Gradual progression from sensory to task-related processing in cerebral cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7202-E7211.	3.3	62
21	Phase properties of transcranial electrical stimulation artifacts in electrophysiological recordings. <i>NeuroImage</i> , 2017, 158, 406-416.	2.1	78
22	Gamma-band activity reflects attentional guidance by facial expression. <i>NeuroImage</i> , 2017, 146, 1142-1148.	2.1	11
23	Motor actions influence subsequent sensorimotor decisions. <i>Scientific Reports</i> , 2017, 7, 15913.	1.6	8
24	The Tactile Window to Consciousness is Characterized by Frequency-Specific Integration and Segregation of the Primary Somatosensory Cortex. <i>Scientific Reports</i> , 2016, 6, 20805.	1.6	19
25	Physiological processes non-linearly affect electrophysiological recordings during transcranial electric stimulation. <i>NeuroImage</i> , 2016, 140, 99-109.	2.1	153
26	Motor cortex activity predicts response alternation during sensorimotor decisions. <i>Nature Communications</i> , 2016, 7, 13098.	5.8	70
27	Measuring the cortical correlation structure of spontaneous oscillatory activity with EEG and MEG. <i>NeuroImage</i> , 2016, 129, 345-355.	2.1	92
28	Identification of causal relations in neuroimaging data with latent confounders: An instrumental variable approach. <i>NeuroImage</i> , 2016, 125, 825-833.	2.1	30
29	Cortical information flow during flexible sensorimotor decisions. <i>Science</i> , 2015, 348, 1352-1355.	6.0	375
30	BOLD fMRI Correlation Reflects Frequency-Specific Neuronal Correlation. <i>Current Biology</i> , 2015, 25, 1368-1374.	1.8	141
31	Accounting for Linear Transformations of EEG and MEG Data in Source Analysis. <i>PLoS ONE</i> , 2015, 10, e0121048.	1.1	9
32	Stronger Neural Modulation by Visual Motion Intensity in Autism Spectrum Disorders. <i>PLoS ONE</i> , 2015, 10, e0132531.	1.1	24
33	Corticostriatal Coordination through Coherent Phase-Amplitude Coupling. <i>Journal of Neuroscience</i> , 2014, 34, 5938-5948.	1.7	82
34	Right Temporoparietal Gray Matter Predicts Accuracy of Social Perception in the Autism Spectrum. <i>Journal of Autism and Developmental Disorders</i> , 2014, 44, 1433-1446.	1.7	11
35	Altered Intrinsic Neuronal Interactions in the Visual Cortex of the Blind. <i>Journal of Neuroscience</i> , 2013, 33, 17072-17080.	1.7	41
36	Dissociating neuronal gamma-band activity from cranial and ocular muscle activity in EEG. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 338.	1.0	181

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37	Spectral fingerprints of large-scale neuronal interactions. <i>Nature Reviews Neuroscience</i> , 2012, 13, 121-134.	4.9	1,122
38	Large-scale cortical correlation structure of spontaneous oscillatory activity. <i>Nature Neuroscience</i> , 2012, 15, 884-890.	7.1	989
39	A framework for local cortical oscillation patterns. <i>Trends in Cognitive Sciences</i> , 2011, 15, 191-199.	4.0	405
40	Oscillatory Synchronization in Large-Scale Cortical Networks Predicts Perception. <i>Neuron</i> , 2011, 69, 387-396.	3.8	536
41	Cortical Network Dynamics of Perceptual Decision-Making in the Human Brain. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 21.	1.0	136
42	Cortical Hypersynchrony Predicts Breakdown of Sensory Processing during Loss of Consciousness. <i>Current Biology</i> , 2011, 21, 1988-1993.	1.8	164
43	Neural substrates of cognitive capacity limitations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11252-11255.	3.3	245
44	Buildup of Choice-Predictive Activity in Human Motor Cortex during Perceptual Decision Making. <i>Current Biology</i> , 2009, 19, 1581-1585.	1.8	434
45	Phase-dependent neuronal coding of objects in short-term memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21341-21346.	3.3	494
46	Neuronal Synchronization along the Dorsal Visual Pathway Reflects the Focus of Spatial Attention. <i>Neuron</i> , 2008, 60, 709-719.	3.8	448
47	High-Frequency Activity in Human Visual Cortex Is Modulated by Visual Motion Strength. <i>Cerebral Cortex</i> , 2007, 17, 732-741.	1.6	131
48	Towards single-trial analysis in cognitive brain research. <i>Trends in Cognitive Sciences</i> , 2007, 11, 502-503.	4.0	18
49	Identification of Sensory Blockade by Somatosensory and Pain-induced Evoked Potentials. <i>Anesthesiology</i> , 2007, 106, 707-714.	1.3	23
50	Population Activity in the Human Dorsal Pathway Predicts the Accuracy of Visual Motion Detection. <i>Journal of Neurophysiology</i> , 2007, 98, 345-359.	0.9	141
51	Single-trial EEG-fMRI reveals the dynamics of cognitive function. <i>Trends in Cognitive Sciences</i> , 2006, 10, 558-563.	4.0	367
52	Trial-by-Trial Coupling of Concurrent Electroencephalogram and Functional Magnetic Resonance Imaging Identifies the Dynamics of Performance Monitoring. <i>Journal of Neuroscience</i> , 2005, 25, 11730-11737.	1.7	934
53	A Functional Gamma-Band Defined by Stimulus-Dependent Synchronization in Area 18 of Awake Behaving Cats. <i>Journal of Neuroscience</i> , 2003, 23, 4251-4260.	1.7	140
54	Integrating top-down and bottom-up sensory processing by somato-dendritic interactions. <i>Journal of Computational Neuroscience</i> , 2000, 8, 161-173.	0.6	106