

Klaus Linkenkaer-Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,967
citations

136940

32
h-index

118840

62
g-index

73
all docs

73
docs citations

73
times ranked

5698
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Range Temporal Correlations and Scaling Behavior in Human Brain Oscillations. <i>Journal of Neuroscience</i> , 2001, 21, 1370-1377.	3.6	937
2	Neuronal long-range temporal correlations and avalanche dynamics are correlated with behavioral scaling laws. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3585-3590.	7.1	395
3	Prestimulus Oscillations Enhance Psychophysical Performance in Humans. <i>Journal of Neuroscience</i> , 2004, 24, 10186-10190.	3.6	350
4	Detrended Fluctuation Analysis: A Scale-Free View on Neuronal Oscillations. <i>Frontiers in Physiology</i> , 2012, 3, 450.	2.8	328
5	Critical-State Dynamics of Avalanches and Oscillations Jointly Emerge from Balanced Excitation/Inhibition in Neuronal Networks. <i>Journal of Neuroscience</i> , 2012, 32, 9817-9823.	3.6	298
6	Scaling laws in cognitive sciences. <i>Trends in Cognitive Sciences</i> , 2010, 14, 223-232.	7.8	283
7	Altered temporal correlations in parietal alpha and prefrontal theta oscillations in early-stage Alzheimer disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1614-1619.	7.1	256
8	Early Neural Correlates of Conscious Somatosensory Perception. <i>Journal of Neuroscience</i> , 2005, 25, 5248-5258.	3.6	238
9	Face-selective processing in human extrastriate cortex around 120 ms after stimulus onset revealed by magneto- and electroencephalography. <i>Neuroscience Letters</i> , 1998, 253, 147-150.	2.1	229
10	Breakdown of Long-Range Temporal Correlations in Theta Oscillations in Patients with Major Depressive Disorder. <i>Journal of Neuroscience</i> , 2005, 25, 10131-10137.	3.6	185
11	Consistency of EEG source localization and connectivity estimates. <i>NeuroImage</i> , 2017, 152, 590-601.	4.2	177
12	Synchronization likelihood with explicit time-frequency priors. <i>NeuroImage</i> , 2006, 33, 1117-1125.	4.2	168
13	Integrative EEG biomarkers predict progression to Alzheimer's disease at the MCI stage. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 58.	3.4	143
14	The Amsterdam Resting-State Questionnaire reveals multiple phenotypes of resting-state cognition. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 446.	2.0	130
15	Individual Differences in White Matter Diffusion Affect Sleep Oscillations. <i>Journal of Neuroscience</i> , 2013, 33, 227-233.	3.6	128
16	A novel mechanism for evoked responses in the human brain. <i>European Journal of Neuroscience</i> , 2007, 25, 3146-3154.	2.6	123
17	Stimulus-induced change in long-range temporal correlations and scaling behaviour of sensorimotor oscillations. <i>European Journal of Neuroscience</i> , 2004, 19, 203-218.	2.6	121
18	Genetic Contributions to Long-Range Temporal Correlations in Ongoing Oscillations. <i>Journal of Neuroscience</i> , 2007, 27, 13882-13889.	3.6	119

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19	Measurement of excitation-inhibition ratio in autism spectrum disorder using critical brain dynamics. <i>Scientific Reports</i> , 2020, 10, 9195.	3.3	102
20	Avalanche dynamics of human brain oscillations: Relation to critical branching processes and temporal correlations. <i>Human Brain Mapping</i> , 2008, 29, 770-777.	3.6	96
21	Interhemispheric phase synchrony and amplitude correlation of spontaneous beta oscillations in human subjects: a magnetoencephalographic study. <i>NeuroReport</i> , 2001, 12, 2487-2491.	1.2	85
22	Scale-Free Modulation of Resting-State Neuronal Oscillations Reflects Prolonged Brain Maturation in Humans. <i>Journal of Neuroscience</i> , 2011, 31, 13128-13136.	3.6	80
23	Dynamics of mu-rhythm suppression caused by median nerve stimulation: a magnetoencephalographic study in human subjects. <i>Neuroscience Letters</i> , 2000, 294, 163-166.	2.1	75
24	Long-Range Temporal Correlations in Resting-State Alpha Oscillations Predict Human Timing-Error Dynamics. <i>Journal of Neuroscience</i> , 2013, 33, 11212-11220.	3.6	70
25	EEG machine learning for accurate detection of cholinergic intervention and Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 5775.	3.3	65
26	The ARSQ 2.0 reveals age and personality effects on mind-wandering experiences. <i>Frontiers in Psychology</i> , 2014, 5, 271.	2.1	64
27	Catecholamines alter the intrinsic variability of cortical population activity and perception. <i>PLoS Biology</i> , 2018, 16, e2003453.	5.6	64
28	Temporary and longer term retention of acoustic information. <i>Psychophysiology</i> , 2002, 39, 530-534.	2.4	49
29	Association Between Resting-State Microstates and Ratings on the Amsterdam Resting-State Questionnaire. <i>Brain Topography</i> , 2017, 30, 245-248.	1.8	47
30	Controlling the Temporal Structure of Brain Oscillations by Focused Attention Meditation. <i>Human Brain Mapping</i> , 2018, 39, 1825-1838.	3.6	44
31	Resting-State fMRI Functional Connectivity Is Associated with Sleepiness, Imagery, and Discontinuity of Mind. <i>PLoS ONE</i> , 2015, 10, e0142014.	2.5	42
32	Flexible spike timing of layer 5 neurons during dynamic beta oscillation shifts in rat prefrontal cortex. <i>Journal of Physiology</i> , 2009, 587, 5177-5196.	2.9	39
33	Strong long-range temporal correlations of beta/gamma oscillations are associated with poor sustained visual attention performance. <i>European Journal of Neuroscience</i> , 2018, 48, 2674-2683.	2.6	39
34	Somatosensory evoked magnetic fields: relation to pre-stimulus mu rhythm. <i>Clinical Neurophysiology</i> , 2000, 111, 1227-1233.	1.5	33
35	Non-zero mean and asymmetry of neuronal oscillations have different implications for evoked responses. <i>Clinical Neurophysiology</i> , 2010, 121, 186-193.	1.5	33
36	More Severe Insomnia Complaints in People with Stronger Long-Range Temporal Correlations in Wake Resting-State EEG. <i>Frontiers in Physiology</i> , 2016, 7, 576.	2.8	27

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37	Preliteracy signatures of poor-reading abilities in resting-state EEG. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 735.	2.0	26
38	Resting-State Subjective Experience and EEG Biomarkers Are Associated with Sleep-Onset Latency. <i>Frontiers in Psychology</i> , 2016, 7, 492.	2.1	23
39	Fast network oscillations in vitro exhibit a slow decay of temporal auto-correlations. <i>European Journal of Neuroscience</i> , 2011, 34, 394-403.	2.6	19
40	Long-Range Amplitude Coupling Is Optimized for Brain Networks That Function at Criticality. <i>Journal of Neuroscience</i> , 2022, 42, 2221-2233.	3.6	17
41	Negative mood and mind wandering increase long-range temporal correlations in attention fluctuations. <i>PLoS ONE</i> , 2018, 13, e0196907.	2.5	16
42	Prediction of Behavioral Improvement Through Resting-State Electroencephalography and Clinical Severity in a Randomized Controlled Trial Testing Bumetanide in Autism Spectrum Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2023, 8, 251-261.	1.5	16
43	Pre-stimulus phase and amplitude regulation of phase-locked responses are maximized in the critical state. <i>ELife</i> , 2020, 9, .	6.0	16
44	Multiple phenotypes of resting-state cognition are altered in insomnia disorder. <i>Sleep Health</i> , 2016, 2, 239-245.	2.5	14
45	Aberrant Long-Range Temporal Correlations in Depression Are Attenuated after Psychological Treatment. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 340.	2.0	14
46	Scale-Free Amplitude Modulation of Neuronal Oscillations Tracks Comprehension of Accelerated Speech. <i>Journal of Neuroscience</i> , 2018, 38, 710-722.	3.6	14
47	Scaling behaviour in music and cortical dynamics interplay to mediate music listening pleasure. <i>Scientific Reports</i> , 2019, 9, 17700.	3.3	14
48	STXBP1 Syndrome Is Characterized by Inhibition-Dominated Dynamics of Resting-State EEG. <i>Frontiers in Physiology</i> , 2021, 12, 775172.	2.8	14
49	External Drive to Inhibitory Cells Induces Alternating Episodes of High- and Low-Amplitude Oscillations. <i>PLoS Computational Biology</i> , 2012, 8, e1002666.	3.2	11
50	Bumetanide As a Candidate Treatment for Behavioral Problems in Tuberous Sclerosis Complex. <i>Frontiers in Neurology</i> , 2017, 8, 469.	2.4	11
51	Novel Candidate Genes Associated with Hippocampal Oscillations. <i>PLoS ONE</i> , 2011, 6, e26586.	2.5	10
52	Inbred mouse strains differ in multiple hippocampal activity traits. <i>European Journal of Neuroscience</i> , 2009, 30, 1092-1100.	2.6	9
53	An EEG nicotinic acetylcholine index to assess the efficacy of pro-cognitive compounds. <i>Clinical Neurophysiology</i> , 2018, 129, 2325-2332.	1.5	8
54	Adults with autism spectrum disorder show atypical patterns of thoughts and feelings during rest. <i>Autism</i> , 2021, 25, 136236132199092.	4.1	8

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55	Pre-retirement Employees Experience Lasting Improvements in Resilience and Well-Being After Mindfulness-Based Stress Reduction. <i>Frontiers in Psychology</i> , 2021, 12, 699088.	2.1	8
56	Sex differences in gray and white matter structure in age-matched unrelated males and females and opposite-sex siblings.. <i>International Journal of Psychological Research</i> , 0, 6, 7-21.	0.6	8
57	Long-Range Temporal Correlations in Alpha Oscillations Stabilize Perception of Ambiguous Visual Stimuli. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 159.	2.0	6
58	Non-zero mean of oscillations as a mechanism for the generation of evoked responses. <i>Clinical Neurophysiology</i> , 2010, 121, 1149-1150.	1.5	4
59	Scaling and Criticality in Large-Scale Neuronal Activity. <i>Lecture Notes in Physics</i> , 2003, , 324-338.	0.7	4
60	Following Excitation/Inhibition Ratio Homeostasis from Synapse to EEG in Monogenetic Neurodevelopmental Disorders. <i>Genes</i> , 2022, 13, 390.	2.4	4
61	Bumetanide Effects on Resting-State EEG in Tuberous Sclerosis Complex in Relation to Clinical Outcome: An Open-Label Study. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	3
62	220. Non-Invasive Estimation of Excitation-Inhibition Balance Facilitates Physiological Dissection of Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2019, 85, S91.	1.3	0
63	221. Behavioural and Neurophysiological Outcomes of the Bumetanide in Autism Medication and Biomarker (BAMBI) Trial. <i>Biological Psychiatry</i> , 2019, 85, S91-S92.	1.3	0
64	222. Cognitive Outcomes of the Bumetanide in Autism Medication and Biomarker (BAMBI) Trial. <i>Biological Psychiatry</i> , 2019, 85, S92.	1.3	0