

# Kristoffer Hougaard Madsen

## List of Publications by Year in descending order

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119  
papers

6,340  
citations

147801  
31  
h-index

79698  
73  
g-index

128  
all docs

128  
docs citations

128  
times ranked

9444  
citing authors

#	ARTICLE	IF	CITATIONS
1	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES) Tj ETQq1 1 0.784314rgBT / Overlock 10 If	12.0	21
2	Locus Coeruleus Shows a Spatial Pattern of Structural Disintegration in Parkinson's Disease. Movement Disorders, 2022, 37, 479-489.	3.9	27
3	Uncovering Cortical Units of Processing From Multi-Layered Connectomes. Frontiers in Neuroscience, 2022, 16, 836259.	2.8	0
4	Uncovering the genetic profiles underlying the intrinsic organization of the human cerebellum. Molecular Psychiatry, 2022, 27, 2619-2634.	7.9	3
5	Tracking of rigid head motion during<scp>MRI</scp>using anÂ<scp>EEG</scp>system. Magnetic Resonance in Medicine, 2022, 88, 986-1001.	3.0	10
6	Novel Invisible Spectral Flicker Induces 40â€ŠHz Neural Entrainment with Similar Spatial Distribution as 40â€ŠHz Stroboscopic Light. Journal of Alzheimer's Disease, 2022, 88, 335-344.	2.6	8
7	Optimizing the electric field strength in multiple targets for multichannel transcranial electric stimulation. Journal of Neural Engineering, 2021, 18, 014001.	3.5	14
8	A Bayesian reanalysis of the effects of hydroxychloroquine and azithromycin on viral carriage in patients with COVID-19. PLoS ONE, 2021, 16, e0245048.	2.5	12
9	The Myelin Content of the Human Precentral Hand Knob Reflects Interindividual Differences in Manual Motor Control at the Physiological and Behavioral Level. Journal of Neuroscience, 2021, 41, 3163-3179.	3.6	24
10	The effect of effort-reward imbalance on brain structure and resting-state functional connectivity in individuals with high levels of schizotypal traits. Cognitive Neuropsychiatry, 2021, 26, 166-182.	1.3	3
11	Reward signalling in brainstem nuclei under fluctuating blood glucose. PLoS ONE, 2021, 16, e0243899.	2.5	2
12	Does pericentral mu-rhythm â€œpowerâ€ corticomotor excitability? â€“ A matter of EEG perspective. Brain Stimulation, 2021, 14, 713-722.	1.6	21
13	Concurrent TMS-fMRI for causal network perturbation and proof of target engagement. Neurolmage, 2021, 237, 118093.	4.2	56
14	Ergodicity-breaking reveals time optimal decision making in humans. PLoS Computational Biology, 2021, 17, e1009217.	3.2	4
15	Data-driven separation of MRI signal components for tissue characterization. Journal of Magnetic Resonance, 2021, 333, 107103.	2.1	2
16	Mapping cortico-subcortical sensitivity to 4 Hz amplitude modulation depth in human auditory system with functional MRI. Neurolmage, 2021, , 118745.	4.2	0
17	Identifying Schizo-Obsessive Comorbidity by Tract-Based Spatial Statistics and Probabilistic Tractography. Schizophrenia Bulletin, 2020, 46, 442-453.	4.3	9
18	Generalizability of machine learning for classification of schizophrenia based on restingâ€state functional MRI data. Human Brain Mapping, 2020, 41, 172-184.	3.6	44

#	ARTICLE	IF	CITATIONS
19	Limited Colocalization of Microbleeds and Microstructural Changes after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 581-592.	3.4	12
20	Value and limitations of intracranial recordings for validating electric field modeling for transcranial brain stimulation. <i>NeuroImage</i> , 2020, 208, 116431.	4.2	39
21	Dopamine agonist treatment increases sensitivity to gamble outcomes in the hippocampus in de novo Parkinson's disease. <i>NeuroImage: Clinical</i> , 2020, 28, 102362.	2.7	1
22	Linking brain activity during sequential gambling to impulse control in Parkinson's disease. <i>NeuroImage: Clinical</i> , 2020, 27, 102330.	2.7	8
23	Migraine with aura in women is not associated with structural thalamic abnormalities. <i>NeuroImage: Clinical</i> , 2020, 28, 102361.	2.7	10
24	Processing of Positive Visual Stimuli Before and After Symptoms Provocation in Posttraumatic Stress Disorder – A Functional Magnetic Resonance Imaging Study of Trauma-Affected Male Refugees. <i>Chronic Stress</i> , 2020, 4, 247054702091762.	3.4	4
25	Discrete finger sequences are widely represented in human striatum. <i>Scientific Reports</i> , 2020, 10, 13189.	3.3	6
26	Functional and Structural Plasticity Co-express in a Left Premotor Region During Early Bimanual Skill Learning. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 310.	2.0	8
27	Two Coarse Spatial Patterns of Altered Brain Microstructure Predict Post-traumatic Amnesia in the Subacute Stage of Severe Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 800.	2.4	0
28	Probing Context-Dependent Modulations of Ipsilateral Premotor-Motor Connectivity in Relapsing-Remitting Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2020, 11, 193.	2.4	4
29	Accurate and robust whole-head segmentation from magnetic resonance images for individualized head modeling. <i>NeuroImage</i> , 2020, 219, 117044.	4.2	73
30	Associations of neural processing of reward with posttraumatic stress disorder and secondary psychotic symptoms in trauma-affected refugees. <i>Høgskole Utbildning</i> , 2020, 11, 1730091.	3.0	9
31	The probabilistic tensor decomposition toolbox. <i>Machine Learning: Science and Technology</i> , 2020, 1, 025011.	5.0	2
32	Classification of social anhedonia using temporal and spatial network features from a social cognition fMRI task. <i>Human Brain Mapping</i> , 2019, 40, 4965-4981.	3.6	12
33	Electric field simulations for transcranial brain stimulation using FEM: an efficient implementation and error analysis. <i>Journal of Neural Engineering</i> , 2019, 16, 066032.	3.5	95
34	Whole-Brain Exploratory Analysis of Functional Task Response Following Erythropoietin Treatment in Mood Disorders: A Supervised Machine Learning Approach. <i>Frontiers in Neuroscience</i> , 2019, 13, 1246.	2.8	2
35	Searchlight classification based on Amplitude of Low Frequency Fluctuation and functional connectivity in individuals with obsessive-compulsive symptoms. <i>Cognitive Neuropsychiatry</i> , 2019, 24, 322-334.	1.3	6
36	Accessibility of cortical regions to focal TES: Dependence on spatial position, safety, and practical constraints. <i>NeuroImage</i> , 2019, 203, 116183.	4.2	67

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37	No trace of phase: Corticomotor excitability is not tuned by phase of pericentral mu-rhythm. Brain Stimulation, 2019, 12, 1261-1270.	1.6	70
38	Unmixing Oscillatory Brain Activity by EEG Source Localization and Empirical Mode Decomposition. Computational Intelligence and Neuroscience, 2019, 2019, 1-15.	1.7	13
39	Getting to grips with endoscopy - Learning endoscopic surgical skills induces bi-hemispheric plasticity of the grasping network. NeuroImage, 2019, 189, 32-44.	4.2	15
40	A principled approach to conductivity uncertainty analysis in electric field calculations. NeuroImage, 2019, 188, 821-834.	4.2	96
41	Functional neuroimaging of recovery from motor conversion disorder: A case report. NeuroImage, 2019, 190, 269-274.	4.2	9
42	SimNIBS 2.1: A Comprehensive Pipeline for Individualized Electric Field Modelling for Transcranial Brain Stimulation. , 2019, , 3-25.		115
43	Ergodicity-Breaking Reveals Time Optimal Economic Behavior in Humans. , 2019, , .		5
44	Task-Modulated Cortical Representations of Natural Sound Source Categories. Cerebral Cortex, 2018, 28, 295-306.	2.9	10
45	Migraine with visual aura associated with thicker visual cortex. Brain, 2018, 141, 776-785.	7.6	52
46	Risk for affective disorders is associated with greater prefrontal gray matter volumes: A prospective longitudinal study. NeuroImage: Clinical, 2018, 17, 786-793.	2.7	13
47	Predictive assessment of models for dynamic functional connectivity. NeuroImage, 2018, 171, 116-134.	4.2	13
48	Automatic skull segmentation from MR images for realistic volume conductor models of the head: Assessment of the state-of-the-art. NeuroImage, 2018, 174, 587-598.	4.2	198
49	Perspectives on Machine Learning for Classification of Schizotypy Using fMRI Data. Schizophrenia Bulletin, 2018, 44, S480-S490.	4.3	19
50	VARIATIONAL BAYESIAN PARTIALLY OBSERVED NON-NEGATIVE TENSOR FACTORIZATION. , 2018, , .		4
51	Cerebellar and premotor activity during a non-fatiguing grip task reflects motor fatigue in relapsing-remitting multiple sclerosis. PLoS ONE, 2018, 13, e0201162.	2.5	7
52	Evaluating Models of Dynamic Functional Connectivity Using Predictive Classification Accuracy. , 2018, , .		1
53	Testing group differences in state transition structure of dynamic functional connectivity models. , 2018, , .		0
54	Skull segmentation from MR scans using a higher-order shape model based on convolutional restricted Boltzmann machines. , 2018, , .		1

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55	Working Memory Modulation of Frontoparietal Network Connectivity in First-Episode Schizophrenia. Cerebral Cortex, 2017, 27, 3832-3841.	2.9	49
56	How to target inter-regional phase synchronization with dual-site Transcranial Alternating Current Stimulation. Neurolmage, 2017, 163, 68-80.	4.2	94
57	Adaptive smoothing in fMRI data processing neural networks. , 2017, , .		0
58	Modeling dynamic functional connectivity using a wishart mixture model. , 2017, , .		0
59	Infinite von Misesâ€Fisher Mixture Modeling of Whole Brain fMRI Data. Neural Computation, 2017, 29, 2712-2741.	2.2	13
60	Whole brain functional connectivity predicted by indirect structural connections. , 2017, , .		4
61	Simultaneous representation of a spectrum of dynamically changing value estimates during decision making. Nature Communications, 2017, 8, 1942.	12.8	66
62	Quantifying functional connectivity in multi-subject fMRI data using component models. Human Brain Mapping, 2017, 38, 882-899.	3.6	30
63	Scalable group level probabilistic sparse factor analysis. , 2017, , .		1
64	Deep convolutional neural networks for interpretable analysis of EEG sleep stage scoring. , 2017, , .		107
65	Alterations in the brainâ€™s connectome during recovery from severe traumatic brain injury: protocol for a longitudinal prospective study. BMJ Open, 2017, 7, e016286.	1.9	6
66	Are Movement Artifacts in Magnetic Resonance Imaging a Real Problem?â€A Narrative Review. Frontiers in Neurology, 2017, 8, 232.	2.4	129
67	Task relevance differentially shapes ventral visual stream sensitivity to visible and invisible faces. Neuroscience of Consciousness, 2016, 2016, niw021.	2.6	3
68	Measuring motion-induced B<sub>0</sub>-fluctuations in the brain using field probes. Magnetic Resonance in Medicine, 2016, 75, 2020-2030.	3.0	15
69	Aberrant neural signatures of decision-making: Pathological gamblers display cortico-striatal hypersensitivity to extreme gambles. Neurolmage, 2016, 128, 342-352.	4.2	30
70	Chasing probabilities â€” Signaling negative and positive prediction errors across domains. Neurolmage, 2016, 134, 180-191.	4.2	12
71	Tuning the Brake While Raising the Stake: Network Dynamics during Sequential Decision-Making. Journal of Neuroscience, 2016, 36, 5417-5426.	3.6	25
72	Unaffected twins discordant for affective disorders show changes in anterior callosal white matter microstructure. Acta Psychiatrica Scandinavica, 2016, 134, 441-451.	4.5	6

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73	Archetypal Analysis for Modeling Multisubject fMRI Data. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1160-1171.	10.8	17
74	Independent vector analysis for capturing common components in fMRI group analysis. , 2016, , .		3
75	Variational group-PCA for intrinsic dimensionality determination in fMRI data. , 2016, , .		0
76	Resting-state connectivity predicts levodopa-induced dyskinesias in Parkinson's disease. Movement Disorders, 2016, 31, 521-529.	3.9	53
77	The Functional Segregation and Integration Model: Mixture Model Representations of Consistent and Variable Group-Level Connectivity in fMRI. Neural Computation, 2016, 28, 2250-2290.	2.2	7
78	Recovery from an acute relapse is associated with changes in motor resting-state connectivity in multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 912-914.	1.9	8
79	Unsupervised segmentation of task activated regions in fMRI. , 2015, , .		4
80	Role of emotional processing in depressive responses to sex-hormone manipulation: a pharmacological fMRI study. Translational Psychiatry, 2015, 5, e688-e688.	4.8	31
81	Transcranial Magnetic Stimulation: An Automated Procedure to Obtain Coil-specific Models for Field Calculations. Brain Stimulation, 2015, 8, 1205-1208.	1.6	15
82	Amygdala signals subjective appetitiveness and aversiveness of mixed gambles. Cortex, 2015, 66, 81-90.	2.4	13
83	Abnormal dopaminergic modulation of striato-cortical networks underlies levodopa-induced dyskinesias in humans. Brain, 2015, 138, 1658-1666.	7.6	65
84	Variation in the oxytocin receptor gene is associated with behavioral and neural correlates of empathic accuracy. Frontiers in Behavioral Neuroscience, 2014, 8, 423.	2.0	49
85	Motivational Tuning of Fronto-Subthalamic Connectivity Facilitates Control of Action Impulses. Journal of Neuroscience, 2014, 34, 3210-3217.	3.6	66
86	The acute brain response to levodopa heralds dyskinesias in Parkinson disease. Annals of Neurology, 2014, 75, 829-836.	5.3	61
87	Neural correlates of taste perception in congenital olfactory impairment. Neuropsychologia, 2014, 62, 297-305.	1.6	20
88	Multiple sclerosis impairs regional functional connectivity in the cerebellum. Neurolmage: Clinical, 2014, 4, 130-138.	2.7	42
89	Non-parametric Bayesian graph models reveal community structure in resting state fMRI. Neurolmage, 2014, 100, 301-315.	4.2	15
90	Postoperative increase in grey matter volume in visual cortex after unilateral cataract surgery. Acta Ophthalmologica, 2013, 91, 58-65.	1.1	23

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91	A schizophrenia rat model induced by early postnatal phencyclidine treatment and characterized by Magnetic Resonance Imaging. Behavioural Brain Research, 2013, 250, 1-8.	2.2	10
92	Diagnostic Approach to Functional Recovery: Functional Magnetic Resonance Imaging after Stroke. Frontiers of Neurology and Neuroscience, 2013, 32, 9-25.	2.8	7
93	Resting-state connectivity of pre-motor cortex reflects disability in multiple sclerosis. Acta Neurologica Scandinavica, 2013, 128, n/a-n/a.	2.1	33
94	Attenuated neural response to gamble outcomes in drug-naïve patients with Parkinson's disease. Brain, 2013, 136, 1192-1203.	7.6	38
95	Expanded functional coupling of subcortical nuclei with the motor resting-state network in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 559-566.	3.0	39
96	Neural markers of negative symptom outcomes in distributed working memory brain activity of antipsychotic-naïve schizophrenia patients. International Journal of Neuropsychopharmacology, 2013, 16, 1195-1204.	2.1	28
97	Identifying modular relations in complex brain networks. , 2012, , .		7
98	Nonlinear denoising and analysis of neuroimages with kernel principal component analysis and pre-image estimation. NeuroImage, 2012, 60, 1807-1818.	4.2	24
99	Model sparsity and brain pattern interpretation of classification models in neuroimaging. Pattern Recognition, 2012, 45, 2085-2100.	8.1	115
100	Decoding Complex Cognitive States Online by Manifold Regularization in Real-Time fMRI. Lecture Notes in Computer Science, 2012, , 76-83.	1.3	0
101	Modeling latency and shape changes in trial based neuroimaging data. , 2011, , .		8
102	Frequency constrained ShiftCP modeling of neuroimaging data. , 2011, , .		0
103	Visualization of nonlinear kernel models in neuroimaging by sensitivity maps. NeuroImage, 2011, 55, 1120-1131.	4.2	55
104	Monocular Visual Deprivation Suppresses Excitability in Adult Human Visual Cortex. Cerebral Cortex, 2011, 21, 2876-2882.	2.9	12
105	Neural correlates of virtual route recognition in congenital blindness. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12716-12721.	7.1	160
106	Toward discovery science of human brain function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4734-4739.	7.1	2,703
107	Cortical neuroplasticity in patients recovering from acute optic neuritis. NeuroImage, 2008, 42, 836-844.	4.2	14
108	Shift-invariant multilinear decomposition of neuroimaging data. NeuroImage, 2008, 42, 1439-1450.	4.2	81

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109	Approximate L0 constrained non-negative matrix and tensor factorization. , 2008, , .		19
110	Bayesian Model Comparison in Nonlinear BOLD fMRI Hemodynamics. Neural Computation, 2008, 20, 738-755.	2.2	10
111	Recovery from optic neuritis: an ROI-based analysis of LGN and visual cortical areas. Brain, 2007, 130, 1244-1253.	7.6	83
112	Shifted Non-Negative Matrix Factorization. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , .	0.0	18
113	Shifted Independent Component Analysis. , 2007, , 89-96.		10
114	Non-white noise in fMRI: Does modelling have an impact?. NeuroImage, 2006, 29, 54-66.	4.2	370
115	An fMRI study of the neural correlates of graded visual perception. NeuroImage, 2006, 31, 1711-1725.	4.2	63
116	fMRI neuroinformatics. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 112-119.	0.8	11
117	Images of Illusory Motion in Primary Visual Cortex. Journal of Cognitive Neuroscience, 2006, 18, 1174-1180.	2.3	35
118	Functional magnetic resonance imaging corresponds to Humphrey perimetry in a patient with pituitary adenoma. Acta Ophthalmologica, 2005, 84, 267-268.	0.3	3
119	Identification of non-linear models of neural activity in BOLD fMRI. , 0, , .		2