

Christian Windischberger

List of Publications by Year in descending order

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Version: 2024-02-01

134
papers

10,210
citations

50276

46
h-index

37204

96
g-index

160
all docs

160
docs citations

160
times ranked

13065
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Correlations and anticorrelations in resting-state functional connectivity MRI: A quantitative comparison of preprocessing strategies. NeuroImage, 2009, 47, 1408-1416.	4.2	745
3	Reduced resting-state functional connectivity between amygdala and orbitofrontal cortex in social anxiety disorder. NeuroImage, 2011, 56, 881-889.	4.2	353
4	Slice-timing effects and their correction in functional MRI. NeuroImage, 2011, 58, 588-594.	4.2	309
5	The suppressive influence of SMA on M1 in motor imagery revealed by fMRI and dynamic causal modeling. NeuroImage, 2008, 40, 828-837.	4.2	219
6	The preparation and readiness for voluntary movement: a high-field event-related fMRI study of the Bereitschafts-BOLD response. NeuroImage, 2003, 20, 404-412.	4.2	211
7	Evidence for Premotor Cortex Activity during Dynamic Visuospatial Imagery from Single-Trial Functional Magnetic Resonance Imaging and Event-Related Slow Cortical Potentials. NeuroImage, 2001, 14, 268-283.	4.2	173
8	Towards understanding rTMS mechanism of action: Stimulation of the DLPFC causes network-specific increase in functional connectivity. NeuroImage, 2017, 162, 289-296.	4.2	172
9	Amygdala activation and facial expressions: Explicit emotion discrimination versus implicit emotion processing. Neuropsychologia, 2007, 45, 2369-2377.	1.6	171
10	Amygdala activity to fear and anger in healthy young males is associated with testosterone. Psychoneuroendocrinology, 2009, 34, 687-693.	2.7	166
11	Placebo analgesia and its opioidergic regulation suggest that empathy for pain is grounded in self pain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5638-46.	7.1	165
12	Facial emotion recognition and amygdala activation are associated with menstrual cycle phase. Psychoneuroendocrinology, 2008, 33, 1031-1040.	2.7	156
13	On the origin of respiratory artifacts in BOLD-EPI of the human brain. Magnetic Resonance Imaging, 2002, 20, 575-582.	1.8	149
14	Pre-movement activity of the pre-supplementary motor area and the readiness for action: Studies of time-resolved event-related functional MRI. Human Movement Science, 2005, 24, 644-656.	1.4	141
15	Disrupted Effective Connectivity Between the Amygdala and Orbitofrontal Cortex in Social Anxiety Disorder During Emotion Discrimination Revealed by Dynamic Causal Modeling for fMRI. Cerebral Cortex, 2015, 25, 895-903.	2.9	139
16	Finger Somatotopy in Human Motor Cortex. NeuroImage, 2001, 13, 1016-1026.	4.2	132
17	P300 amplitude variation is related to ventral striatum BOLD response during gain and loss anticipation: An EEG and fMRI experiment. NeuroImage, 2014, 96, 12-21.	4.2	129
18	Robust and Fast Whole Brain Mapping of the RF Transmit Field B1 at 7T. PLoS ONE, 2012, 7, e32379.	2.5	127

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19	The selection of intended actions and the observation of others' actions: A time-resolved fMRI study. <i>NeuroImage</i> , 2006, 29, 1294-1302.	4.2	123
20	Area-specific modulation of neural activation comparing escitalopram and citalopram revealed by pharmacofMRI: A randomized cross-over study. <i>NeuroImage</i> , 2010, 49, 1161-1170.	4.2	111
21	Differential modulation of the default mode network via serotonin-1A receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2619-2624.	7.1	109
22	Reduced default mode network suppression during a working memory task in remitted major depression. <i>Journal of Psychiatric Research</i> , 2015, 64, 9-18.	3.1	99
23	Ultra-high-field fMRI insights on insight: Neural correlates of the Aha! moment. <i>Human Brain Mapping</i> , 2018, 39, 3241-3252.	3.6	98
24	White Matter Microstructure in Transsexuals and Controls Investigated by Diffusion Tensor Imaging. <i>Journal of Neuroscience</i> , 2014, 34, 15466-15475.	3.6	93
25	Ketamine-Induced Modulation of the Thalamo-Cortical Network in Healthy Volunteers As a Model for Schizophrenia. <i>International Journal of Neuropsychopharmacology</i> , 2015, 18, pyv040.	2.1	93
26	Wavelet-based multifractal analysis of fMRI time series. <i>NeuroImage</i> , 2004, 22, 1195-1202.	4.2	89
27	A quantitative comparison of functional MRI cluster analysis. <i>Artificial Intelligence in Medicine</i> , 2004, 31, 57-71.	6.5	84
28	Increased neural responses to empathy for pain might explain how acute stress increases prosociality. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 401-408.	3.0	84
29	Increased Neural Habituation in the Amygdala and Orbitofrontal Cortex in Social Anxiety Disorder Revealed by fMRI. <i>PLoS ONE</i> , 2012, 7, e50050.	2.5	82
30	Uncertainty during pain anticipation: The adaptive value of preparatory processes. <i>Human Brain Mapping</i> , 2015, 36, 744-755.	3.6	79
31	General and specific responsiveness of the amygdala during explicit emotion recognition in females and males. <i>BMC Neuroscience</i> , 2009, 10, 91.	1.9	76
32	Stability of low-frequency fluctuation amplitudes in prolonged resting-state fMRI. <i>NeuroImage</i> , 2014, 103, 249-257.	4.2	76
33	High-resolution functional MRI of the human amygdala at 7T. <i>European Journal of Radiology</i> , 2013, 82, 728-733.	2.6	71
34	The functional role of dorso-lateral premotor cortex during mental rotation. <i>NeuroImage</i> , 2007, 36, 1374-1386.	4.2	69
35	Structural Connectivity Networks of Transgender People. <i>Cerebral Cortex</i> , 2015, 25, 3527-3534.	2.9	66
36	Default mode network deactivation during emotion processing predicts early antidepressant response. <i>Translational Psychiatry</i> , 2017, 7, e1008-e1008.	4.8	63

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37	Multi-subject analyses with dynamic causal modeling. <i>NeuroImage</i> , 2010, 49, 3065-3074.	4.2	61
38	Robust field map generation using a triple-echo acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 730-734.	3.4	59
39	Additive Gene-Environment Effects on Hippocampal Structure in Healthy Humans. <i>Journal of Neuroscience</i> , 2014, 34, 9917-9926.	3.6	59
40	Fully exploratory network independent component analysis of the 1000 functional connectomes database. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 301.	2.0	55
41	Context-sensitivity of the feedback-related negativity for zero-value feedback outcomes. <i>Biological Psychology</i> , 2015, 104, 184-192.	2.2	54
42	Scaling laws and persistence in human brain activity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 326, 511-521.	2.6	53
43	Discontinuous Patterns of Brain Activation in the Psychotherapy Process of Obsessive-Compulsive Disorder: Converging Results from Repeated fMRI and Daily Self-Reports. <i>PLoS ONE</i> , 2013, 8, e71863.	2.5	53
44	Human motor cortex activity during mental rotation. <i>NeuroImage</i> , 2003, 20, 225-232.	4.2	51
45	Amygdala activation during recognition of emotions in a foreign ethnic group is associated with duration of stay. <i>Social Neuroscience</i> , 2009, 4, 294-307.	1.3	50
46	Impact of self-esteem and sex on stress reactions. <i>Scientific Reports</i> , 2017, 7, 17210.	3.3	50
47	Gray matter and intrinsic network changes in the posterior cingulate cortex after selective serotonin reuptake inhibitor intake. <i>NeuroImage</i> , 2014, 84, 236-244.	4.2	48
48	Distinct neural processes are engaged in the modulation of mimicry by social group-membership and emotional expressions. <i>Cortex</i> , 2015, 70, 49-67.	2.4	48
49	Testosterone affects language areas of the adult human brain. <i>Human Brain Mapping</i> , 2016, 37, 1738-1748.	3.6	47
50	The selfless mind: How prefrontal involvement in mentalizing with similar and dissimilar others shapes empathy and prosocial behavior. <i>Cognition</i> , 2016, 157, 24-38.	2.2	47
51	A novel coil array for combined TMS/fMRI experiments at 3 T. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1492-1501.	3.0	46
52	Subcortical gray matter changes in transgender subjects after long-term cross-sex hormone administration. <i>Psychoneuroendocrinology</i> , 2016, 74, 371-379.	2.7	46
53	Comparing neural response to painful electrical stimulation with functional MRI at 3 and 7T. <i>NeuroImage</i> , 2013, 82, 336-343.	4.2	45
54	Voxel-based morphometry at ultra-high fields. A comparison of 7T and 3T MRI data. <i>NeuroImage</i> , 2015, 113, 207-216.	4.2	43

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55	High-sensitivity TMS/fMRI of the Human Motor Cortex Using a Dedicated Multichannel MR Coil. <i>NeuroImage</i> , 2017, 150, 262-269.	4.2	43
56	Group ICA of resting-state data: a comparison. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 317-325.	2.0	41
57	Fuzzy cluster analysis of high-field functional MRI data. <i>Artificial Intelligence in Medicine</i> , 2003, 29, 203-223.	6.5	40
58	Magnetic resonance imaging methodology. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 30-41.	6.4	40
59	The Human Factor: Behavioral and Neural Correlates of Humanized Perception in Moral Decision Making. <i>PLoS ONE</i> , 2012, 7, e47698.	2.5	39
60	(S)-citalopram influences amygdala modulation in healthy subjects: a randomized placebo-controlled double-blind fMRI study using dynamic causal modeling. <i>NeuroImage</i> , 2015, 108, 243-250.	4.2	39
61	When differences matter: rTMS/fMRI reveals how differences in dispositional empathy translate to distinct neural underpinnings of self-other distinction in empathy. <i>Cortex</i> , 2020, 128, 143-161.	2.4	37
62	Ketamine-dependent neuronal activation in healthy volunteers. <i>Brain Structure and Function</i> , 2017, 222, 1533-1542.	2.3	36
63	Culture but not gender modulates amygdala activation during explicit emotion recognition. <i>BMC Neuroscience</i> , 2012, 13, 54.	1.9	35
64	RESCALE: Voxel-specific task-fMRI scaling using resting state fluctuation amplitude. <i>NeuroImage</i> , 2013, 70, 80-88.	4.2	34
65	Unsmoothed functional MRI of the human amygdala and bed nucleus of the stria terminalis during processing of emotional faces. <i>NeuroImage</i> , 2018, 168, 383-391.	4.2	34
66	Reproducibility of amygdala activation in facial emotion processing at 7T. <i>NeuroImage</i> , 2020, 211, 116585.	4.2	34
67	Vascular autoresizing of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016, 124, 794-805.	4.2	33
68	Spatial Distribution of Prostate Cancers Undetected on Initial Needle Biopsies. <i>European Urology</i> , 2001, 39, 662-668.	1.9	32
69	Multimodal imaging of human early visual cortex by combining functional and molecular measurements with fMRI and PET. <i>NeuroImage</i> , 2008, 41, 204-211.	4.2	32
70	Co-registration of EEG and MRI data using matching of spline interpolated and MRI-segmented reconstructions of the scalp surface. <i>Brain Topography</i> , 2001, 14, 93-100.	1.8	31
71	Effects of sex hormone treatment on white matter microstructure in individuals with gender dysphoria. <i>NeuroImage</i> , 2017, 150, 60-67.	4.2	30
72	Serotonin-1A receptor binding is positively associated with gray matter volume – A multimodal neuroimaging study combining PET and structural MRI. <i>NeuroImage</i> , 2012, 63, 1091-1098.	4.2	27

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73	Explorative signal processing in functional MR imaging. <i>International Journal of Imaging Systems and Technology</i> , 1999, 10, 166-176.	4.1	26
74	Comparison of continuously acquired resting state and extracted analogues from active tasks. <i>Human Brain Mapping</i> , 2015, 36, 4053-4063.	3.6	26
75	Eyetracker-based gaze correction for robust mapping of population receptive fields. <i>NeuroImage</i> , 2016, 142, 211-224.	4.2	24
76	Effects of testosterone treatment on hypothalamic neuroplasticity in female-to-male transgender individuals. <i>Brain Structure and Function</i> , 2018, 223, 321-328.	2.3	24
77	Flexible 23-channel coil array for high-resolution magnetic resonance imaging at 3 Tesla. <i>PLoS ONE</i> , 2018, 13, e0206963.	2.5	24
78	The pulvinar nucleus and antidepressant treatment: dynamic modeling of antidepressant response and remission with ultra-high field functional MRI. <i>Molecular Psychiatry</i> , 2019, 24, 746-756.	7.9	23
79	Sex Matters: A Multivariate Pattern Analysis of Sex- and Gender-Related Neuroanatomical Differences in Cis- and Transgender Individuals Using Structural Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2020, 30, 1345-1356.	2.9	23
80	Better you lose than I do: neural networks involved in winning and losing in a real time strictly competitive game. <i>Scientific Reports</i> , 2015, 5, 11017.	3.3	22
81	Imaging the neuroplastic effects of ketamine with VBM and the necessity of placebo control. <i>NeuroImage</i> , 2017, 147, 198-203.	4.2	22
82	Hippocampal Subfields in Acute and Remitted Depression – an Ultra-High Field Magnetic Resonance Imaging Study. <i>International Journal of Neuropsychopharmacology</i> , 2019, 22, 513-522.	2.1	22
83	Gender transition affects neural correlates of empathy: A resting state functional connectivity study with ultra high-field 7T MR imaging. <i>NeuroImage</i> , 2016, 138, 257-265.	4.2	21
84	Task-dependent modulation of amygdala connectivity in social anxiety disorder. <i>Psychiatry Research - Neuroimaging</i> , 2017, 262, 39-46.	1.8	21
85	Dissociation of supplementary motor area and primary motor cortex in human subjects when comparing index and little finger movements with functional magnetic resonance imaging. <i>Neuroscience Letters</i> , 2001, 313, 5-8.	2.1	20
86	Modulations in resting state networks of subcortical structures linked to creativity. <i>NeuroImage</i> , 2019, 195, 311-319.	4.2	20
87	Platelet Serotonin Transporter Function Predicts Default-Mode Network Activity. <i>PLoS ONE</i> , 2014, 9, e92543.	2.5	19
88	Correspondence between retinotopic cortical mapping and conventional functional and morphological assessment of retinal disease. <i>British Journal of Ophthalmology</i> , 2019, 103, 208-215.	3.9	18
89	Beyond Sharing Unpleasant Affect – Evidence for Pain-Specific Opioidergic Modulation of Empathy for Pain. <i>Cerebral Cortex</i> , 2021, 31, 2773-2786.	2.9	18
90	Artificial scotoma estimation based on population receptive field mapping. <i>NeuroImage</i> , 2018, 169, 342-351.	4.2	17

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91	Antidepressant treatment, not depression, leads to reductions in behavioral and neural responses to pain empathy. <i>Translational Psychiatry</i> , 2019, 9, 164.	4.8	17
92	Concurrent TMS-fMRI: Technical Challenges, Developments, and Overview of Previous Studies. <i>Frontiers in Psychiatry</i> , 2022, 13, 825205.	2.6	17
93	Spatial resolution in echo planar imaging: shifting the acquisition window in k-space. <i>Magnetic Resonance Imaging</i> , 2000, 18, 825-834.	1.8	16
94	Time-resolved analysis of fMRI signal changes using Brain Activation Movies. <i>Journal of Neuroscience Methods</i> , 2008, 169, 222-230.	2.5	16
95	Individual Diversity of Functional Brain Network Economy. <i>Brain Connectivity</i> , 2015, 5, 156-165.	1.7	16
96	fMRI of the Emotions: Towards an Improved Understanding of Amygdala Function. <i>Current Medical Imaging</i> , 2005, 1, 115-129.	0.8	14
97	A highly parallelized framework for computationally intensive MR data analysis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 313-320.	2.0	14
98	Beware detrending: Optimal preprocessing pipeline for low-frequency fluctuation analysis. <i>Human Brain Mapping</i> , 2019, 40, 1571-1582.	3.6	14
99	Consistency of inter-trial activation using single-trial fMRI: assessment of regional differences. <i>Cognitive Brain Research</i> , 2002, 13, 129-138.	3.0	13
100	A functional polymorphism in the prodynorphin gene affects cognitive flexibility and brain activation during reversal learning. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 172.	2.0	13
101	Investigating the Group-Level Impact of Advanced Dual-Echo fMRI Combinations. <i>Frontiers in Neuroscience</i> , 2016, 10, 571.	2.8	13
102	Association between dynamic resting-state functional connectivity and ketamine plasma levels in visual processing networks. <i>Scientific Reports</i> , 2019, 9, 11484.	3.3	13
103	A Genetic Polymorphism of the Endogenous Opioid Dynorphin Modulates Monetary Reward Anticipation in the Corticostriatal Loop. <i>PLoS ONE</i> , 2014, 9, e89954.	2.5	13
104	Characterization of BOLD activation in multi-echo fMRI data using fuzzy cluster analysis and a comparison with quantitative modeling. <i>NMR in Biomedicine</i> , 2001, 14, 484-489.	2.8	12
105	fMRI correlates of different components of Braille reading by the blind. <i>Neurology Psychiatry and Brain Research</i> , 2015, 21, 137-145.	2.0	12
106	Test-retest reliability of emotion regulation networks using fMRI at ultra-high magnetic field. <i>NeuroImage</i> , 2021, 232, 117917.	4.2	12
107	Effects of individual glucose levels on the neuronal correlates of emotions. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 212.	2.0	11
108	Effects of 1,8-Cineole and Linalool on Functional Brain Activation in a Working Memory Task. <i>Flavour and Fragrance Journal</i> , 2018, 33, 235-244.	2.6	11

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109	Bone Homogeneity Factor. Investigative Radiology, 2003, 38, 467-472.	6.2	10
110	Placebo-induced pain reduction is associated with negative coupling between brain networks at rest. NeuroImage, 2020, 219, 117024.	4.2	10
111	Dynamic Causal Modeling of the Prefrontal/Amygdala Network During Processing of Emotional Faces. Brain Connectivity, 2022, 12, 670-682.	1.7	7
112	Multiple serial picture presentation with millisecond resolution using a three-way LC-shutter-tachistoscope. Journal of Neuroscience Methods, 2010, 187, 235-242.	2.5	6
113	Neurobiological differences in mental rotation and instrument interpretation in airline pilots. Scientific Reports, 2016, 6, 28104.	3.3	6
114	Probing the association between serotonin-1A autoreceptor binding and amygdala reactivity in healthy volunteers. NeuroImage, 2018, 171, 1-5.	4.2	6
115	Combining stimulus types for improved coverage in population receptive field mapping. NeuroImage, 2021, 238, 118240.	4.2	5
116	Individualizing Brainstimulation through concurrent TMS/fMRI. Brain Stimulation, 2019, 12, 425-427.	1.6	4
117	Detached empathic experience of others' pain in remitted states of depression – An fMRI study. NeuroImage: Clinical, 2021, 31, 102699.	2.7	4
118	Technical Note: Human tissue-equivalent MRI phantom preparation for 3 and 7 Tesla. Medical Physics, 2021, 48, 4387-4394.	3.0	3
119	Real-time neuronavigation feedback in concurrent TMS-fMRI. Brain Stimulation, 2019, 12, 574-575.	1.6	2
120	Give me a pain that I am used to: distinct habituation patterns to painful and non-painful stimulation. Scientific Reports, 2021, 11, 22929.	3.3	2
121	Concurrent TMS/fMRI validates MDD target network engagement. Brain Stimulation, 2021, 14, 1710.	1.6	2
122	Title is missing!. Investigative Radiology, 2003, 38, 467-472.	6.2	1
123	Verifying successful brain stimulation by concurrent TMS/fMRI. Brain Stimulation, 2019, 12, 502.	1.6	1
124	EPI-based target tracking in concurrent TMS-fMRI. Brain Stimulation, 2019, 12, 486.	1.6	1
125	Concurrent TMS/fMRI with high sensitivity and accelerated image acquisition. Brain Stimulation, 2021, 14, 1723.	1.6	1
126	New ultra-thin multichannel receive coil for concurrent TMS/fMRI experiments. Brain Stimulation, 2015, 8, 426-427.	1.6	0

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127	Functional localizers for improved DLPFC targeting: a comparison against standard rTMS targets. Brain Stimulation, 2019, 12, 436-437.	1.6	0
128	A novel approach for the assessment of population receptive field mapping results. Journal of Vision, 2019, 19, 278b.	0.3	0
129	Interslice TMS/fMRI enables continuous EPI during clinical rTMS and iTBS protocols. Brain Stimulation, 2021, 14, 1723-1724.	1.6	0
130	Combined rTMS/fMRI over the Motor and Prefrontal Brain Areas for Testing Therapeutic rTMS Protocols. Brain Stimulation, 2021, 14, 1686.	1.6	0
131	Systematic review of interleaved TMS-fMRI – overview of methodological differences and sources of bias. Brain Stimulation, 2021, 14, 1684.	1.6	0
132	The influence of EPI parameter choice on reliability of sgACC-DLPFC functional connectivity. Brain Stimulation, 2021, 14, 1608-1609.	1.6	0
133	Disentangling the transcranially evoked BOLD response from re-afferent sensory feedback during concurrent TMS-fMRI of the human motor cortex using an ischemic nerve block. Brain Stimulation, 2021, 14, 1723.	1.6	0
134	Optimising MR Imaging Data Quality for a Novel Ultrathin Multichannel Coil for simultaneous TMS/fMRI Experiments: A Comparison of Sequence Parameters. Brain Stimulation, 2021, 14, 1668-1669.	1.6	0