Gabriele Lohmann

List of Publications by Year
in descending order

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80	6,741	87886 38	69246 77
papers	citations	h-index	g-index

88	88	88	8859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precuneus shares intrinsic functional architecture in humans and monkeys. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20069-20074.	7.1	857
2	Eigenvector Centrality Mapping for Analyzing Connectivity Patterns in fMRI Data of the Human Brain. PLoS ONE, 2010, 5, e10232.	2.5	406
3	Neural language networks at birth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16056-16061.	7.1	398
4	Color-Word Matching Stroop Task: Separating Interference and Response Conflict. NeuroImage, 2001, 13, 29-36.	4.2	344
5	Lipsiaâ€"a new software system for the evaluation of functional magnetic resonance images of the human brain. Computerized Medical Imaging and Graphics, 2001, 25, 449-457.	5.8	330
6	FMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. Human Brain Mapping, 2002, 17, 73-88.	3.6	307
7	Revisiting the role of Broca's area in sentence processing: Syntactic integration versus syntactic working memory. Human Brain Mapping, 2005, 24, 79-91.	3.6	283
8	Long-term effects of motor training on resting-state networks and underlying brain structure. NeuroImage, 2011, 57, 1492-1498.	4.2	247
9	Towards a standard analysis for functional near-infrared imaging. NeuroImage, 2004, 21, 283-290.	4.2	213
10	Resting developments: a review of fMRI post-processing methodologies for spontaneous brain activity. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 289-307.	2.0	209
11	Microstructural Parcellation of the Human Cerebral Cortex â€“ From Brodmann's Post-Mortem Map to in vivo Mapping with High-Field Magnetic Resonance Imaging. Frontiers in Human Neuroscience, 2011, 5, 19.	2.0	198
12	Sulcal Variability of Twins. Cerebral Cortex, 1999, 9, 754-763.	2.9	178
13	Deep Sulcal Landmarks Provide an Organizing Framework for Human Cortical Folding. Cerebral Cortex, 2008, 18, 1415-1420.	2.9	148
14	Bach speaks: a cortical "language-network" serves the processing of music. NeuroImage, 2002, 17, 956-66.	4.2	143
15	Auditory what, where, and when: a sensory somatotopy in lateral premotor cortex. NeuroImage, 2003, 20, 173-185.	4.2	126
16	Automatic labelling of the human cortical surface using sulcal basins. Medical Image Analysis, 2000, 4, 179-188.	11.6	125
17	Separating distractor rejection and target detection in posterior parietal cortexâ€"an event-related fMRI study of visual marking. NeuroImage, 2003, 18, 310-323.	4.2	112
18	Maturation of the Language Network: From Inter- to Intrahemispheric Connectivities. PLoS ONE, 2011, 6, e20726.	2.5	107

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19	Critical comments on dynamic causal modelling. NeuroImage, 2012, 59, 2322-2329.	4.2	107
20	Interoceptive awareness changes the posterior insula functional connectivity profile. Brain Structure and Function, 2016, 221, 1555-1571.	2.3	105
21	Diffusion tensor imaging segments the human amygdala in vivo. NeuroImage, 2010, 49, 2958-2965.	4.2	98
22	Within-subject variability of BOLD response dynamics. NeuroImage, 2003, 19, 784-796.	4.2	81
23	On Multivariate Spectral Analysis of fMRI Time Series. NeuroImage, 2001, 14, 347-356.	4.2	78
24	Meta-analysis of functional imaging data using replicator dynamics. Human Brain Mapping, 2005, 25, 165-173.	3.6	71
25	Perception of Words and Pitch Patterns in Song and Speech. Frontiers in Psychology, 2012, 3, 76.	2.1	71
26	Bayesian second-level analysis of functional magnetic resonance images. NeuroImage, 2003, 20, 1346-1355.	4.2	70
27	Setting the Frame: The Human Brain Activates a Basic Low-Frequency Network for Language Processing. Cerebral Cortex, 2010, 20, 1286-1292.	2.9	70
28	Exenatide-Induced Reduction in Energy Intake Is Associated With Increase in Hypothalamic Connectivity. Diabetes Care, 2013, 36, 1933-1940.	8.6	68
29	Dynamic network participation of functional connectivity hubs assessed by resting-state fMRI. Frontiers in Human Neuroscience, 2014, 8, 195.	2.0	67
30	Neural activations at the junction of the inferior frontal sulcus and the inferior precentral sulcus: Interindividual variability, reliability, and association with sulcal morphology. Human Brain Mapping, 2009, 30, 299-311.	3.6	66
31	Parcellation of human amygdala in vivo using ultra high field structural MRI. NeuroImage, 2011, 58, 741-748.	4.2	61
32	Deficient approaches to human neuroimaging. Frontiers in Human Neuroscience, 2014, 8, 462.	2.0	59
33	Extracting line representations of sulcal and gyral patterns in MR images of the human brain. IEEE Transactions on Medical Imaging, 1998, 17, 1040-1048.	8.9	55
34	Bach Speaks: A Cortical â€œLanguage-Networkâ€•Serves the Processing of Music. NeuroImage, 2002, 17, 956-966.	4.2	55
35	Commentary: Cluster failure: Why fMRI inferences for spatial extent have inflated false-positive rates. Frontiers in Human Neuroscience, 2017, 11, 345.	2.0	53
36	Three-Dimensional Mean-Shift Edge Bundling for the Visualization of Functional Connectivity in the Brain. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 471-480.	4.4	50

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37	The auditory cortex hosts network nodes influential for emotion processing: An fMRI study on music-evoked fear and joy. PLoS ONE, 2018, 13, e0190057.	2.5	47
38	Model-based clustering of meta-analytic functional imaging data. Human Brain Mapping, 2008, 29, 177-192.	3.6	46
39	Voxel-based surface area estimation: from theory to practice. Pattern Recognition, 2003, 36, 2531-2541.	8.1	41
40	Characterization of cortical thickness and ventricular width in normal aging: A morphometric study at 3 Tesla. Journal of Magnetic Resonance Imaging, 2006, 24, 513-519.	3.4	40
41	Investigating the wavelet coherence phase of the BOLD signal. Journal of Magnetic Resonance Imaging, 2004, 20, 145-152.	3.4	34
42	Using replicator dynamics for analyzing fMRI data of the human brain. IEEE Transactions on Medical Imaging, 2002, 21, 485-492.	8.9	33
43	A software tool for interactive exploration of intrinsic functional connectivity opens new perspectives for brain surgery. Acta Neurochirurgica, 2011, 153, 1561-1572.	1.7	31
44	Morphology-Based Cortical Thickness Estimation. Lecture Notes in Computer Science, 2003, 18, 89-100.	1.3	28
45	Using non-negative matrix factorization for single-trial analysis of fMRI data. NeuroImage, 2007, 37, 1148-1160.	4.2	28
46	LISA improves statistical analysis for fMRI. Nature Communications, 2018, 9, 4014.	12.8	27
47	Image restoration and spatial resolution in 7â€tesla magnetic resonance imaging. Magnetic Resonance in Medicine, 2010, 64, 15-22.	3.0	25
48	Investigating the stimulus-dependent temporal dynamics of the BOLD signal using spectral methods. Journal of Magnetic Resonance Imaging, 2003, 17, 375-382.	3.4	24
49	Morphometry demonstrates loss of cortical thickness in cerebral microangiopathy. Journal of Neurology, 2005, 252, 441-447.	3.6	24
50	Prioritizing spatial accuracy in high-resolution fMRI data using multivariate feature weight mapping. Frontiers in Neuroscience, 2014, 8, 66.	2.8	22
51	Self-regulation of brain rhythms in the precuneus: a novel BCI paradigm for patients with ALS. Journal of Neural Engineering, 2016, 13, 066021.	3.5	22
52	Analysis and synthesis of textures: A co-occurrence-based approach. Computers and Graphics, 1995, 19, 29-36.	2.5	21
53	Learning partially directed functional networks from meta-analysis imaging data. NeuroImage, 2010, 49, 1372-1384.	4.2	21
54	â€œMore Is Differentâ€•in Functional Magnetic Resonance Imaging: A Review of Recent Data Analysis Techniques. Brain Connectivity, 2013, 3, 223-239.	1.7	20

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55	Wavelet statistics of functional MRI data and the general linear model. Journal of Magnetic Resonance Imaging, 2003, 17, 20-30.	3.4	19
56	The parcellation of cortical areas using replicator dynamics in fMRI. NeuroImage, 2006, 32, 208-219.	4.2	19
57	The BOLD sensitivity of rapid steadyâ€state sequences. Magnetic Resonance in Medicine, 2019, 81, 2526-2535.	3.0	15
58	Event-related analysis for event types of fixed order and restricted spacing by temporal quantification of trial-averaged fMRI time courses. Journal of Magnetic Resonance Imaging, 2003, 18, 599-607.	3.4	14
59	Automatic detection and labelling of the human cortical folds in magnetic resonance data sets. Lecture Notes in Computer Science, 1998, , 369-381.	1.3	11
60	An evidential reasoning approach to the classification of satellite images. Lecture Notes in Computer Science, 1991, , 227-231.	1.3	10
61	Task-Related Edge Density (TED)â€”A New Method for Revealing Dynamic Network Formation in fMRI Data of the Human Brain. PLoS ONE, 2016, 11, e0158185.	2.5	10
62	Response to commentaries on our paper: Critical comments on dynamic causal modelling. NeuroImage, 2013, 75, 279-281.	4.2	9
63	Magnetic resonance imaging of the human frontal cortex reveals differential anteriorâ€“posterior variability of sulcal basins. NeuroImage, 2005, 25, 646-651.	4.2	8
64	Connectivity Concordance Mapping: A New Tool for Model-Free Analysis of fMRI Data of the Human Brain. Frontiers in Systems Neuroscience, 2012, 6, 13.	2.5	7
65	Brainglance: Visualizing Group Level MRI Data at One Glance. Frontiers in Neuroscience, 2019, 13, 972.	2.8	7
66	Surface Area Estimation in Practice. Lecture Notes in Computer Science, 2003, , 358-367.	1.3	5
67	The correlation between blood oxygenation level-dependent signal strength and latency. Journal of Magnetic Resonance Imaging, 2005, 21, 489-494.	3.4	5
68	Detecting groups of coherent voxels in functional MRI data using spectral analysis and replicator dynamics. Journal of Magnetic Resonance Imaging, 2007, 26, 1642-1650.	3.4	5
69	Extracting lines of maximal depth from MR images of the human brain. , 1996, , .		3
70	Lipsia â€” A software package for the analysis of fMRI data. NeuroImage, 2001, 13, 190.	4.2	3
71	Exploring functional relations between brain regions from fMRI meta-analysis data: Comments on Ramsey, Spirtes, and Glymour. NeuroImage, 2011, 57, 331-333.	4.2	3
72	Correction for Perani et al., Neural language networks at birth. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18566-18566.	7.1	3

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73	Robotic surgery and planning for corrective femur osteotomy. , 0, , .		2
74	Conjunction analysis and propositional logic in fMRI data analysis using Bayesian statistics. Journal of Magnetic Resonance Imaging, 2008, 28, 1533-1539.	3.4	2
75	Jumping over baselines with new methods to predict activation maps from resting-state fMRI. Scientific Reports, 2021, 11, 3480.	3.3	2
76	New Concepts in Brain Networks. Frontiers in Systems Neuroscience, 2012, 6, 56.	2.5	1
77	Detecting Functionally Coherent Networks in fMRI Data of the Human Brain Using Replicator Dynamics. Lecture Notes in Computer Science, 2001, , 218-224.	1.3	1
78	Correlation bundle statistics in fMRI data. , 2014, , .		0
79	A Construction of an Averaged Representation of Human Cortical Gyri Using Non-linear Principal Component Analysis. Lecture Notes in Computer Science, 2005, 8, 749-756.	1.3	0
80	Investigating Cortical Variability Using a Generic Gyral Model. Lecture Notes in Computer Science, 2006, 9, 109-116.	1.3	0