Gabriele Lohmann

List of Publications by Citations

81 papers	5,521 citations	35 h-index	74 g-index
87 ext. papers	6,171 ext. citations	5.7 avg, IF	5.35 L-index

#	Paper	IF	Citations
81	Precuneus shares intrinsic functional architecture in humans and monkeys. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20069-74	11.5	714
80	Eigenvector centrality mapping for analyzing connectivity patterns in fMRI data of the human brain. *PLoS ONE*, **2010**, 5, e10232	3.7	325
79	Neural language networks at birth. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16056-61	11.5	319
78	LIPSIA--a new software system for the evaluation of functional magnetic resonance images of the human brain. *Computerized Medical Imaging and Graphics*, **2001**, 25, 449-57	7.6	299
77	Color-word matching stroop task: separating interference and response conflict. *NeuroImage*, **2001**, 13, 29-36	7.9	279
76	FMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. *Human Brain Mapping*, **2002**, 17, 73-88	5.9	273
75	Revisiting the role of Broca\x{2019}s area in sentence processing: syntactic integration versus syntactic working memory. *Human Brain Mapping*, **2005**, 24, 79-91	5.9	252
74	Long-term effects of motor training on resting-state networks and underlying brain structure. *NeuroImage*, **2011**, 57, 1492-8	7.9	202
73	Towards a standard analysis for functional near-infrared imaging. *NeuroImage*, **2004**, 21, 283-90	7.9	177
72	Microstructural Parcellation of the Human Cerebral Cortex - From Brodmann\x{2019}s Post-Mortem Map to in vivo Mapping with High-Field Magnetic Resonance Imaging. *Frontiers in Human Neuroscience*, **2011**, 5, 19	3.3	175
71	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	2.8	174
70	Sulcal variability of twins. *Cerebral Cortex*, **1999**, 9, 754-63	5.1	149
69	Deep sulcal landmarks provide an organizing framework for human cortical folding. *Cerebral Cortex*, **2008**, 18, 1415-20	5.1	125
68	Bach speaks: a cortical "language-network" serves the processing of music. *NeuroImage*, **2002**, 17, 956-66	7.9	119
67	Auditory what, where, and when: a sensory somatotopy in lateral premotor cortex. *NeuroImage*, **2003**, 20, 173-85	7.9	118
66	Automatic labelling of the human cortical surface using sulcal basins. *Medical Image Analysis*, **2000**, 4, 179-88	15.4	108
65	Critical comments on dynamic causal modelling. *NeuroImage*, **2012**, 59, 2322-9	7.9	92

64	Separating distractor rejection and target detection in posterior parietal cortex--an event-related fMRI study of visual marking. *NeuroImage*, **2003**, 18, 310-23	7.9	91
63	Maturation of the language network: from inter- to intrahemispheric connectivities. *PLoS ONE*, **2011**, 6, e20726	3.7	89
62	Diffusion tensor imaging segments the human amygdala in vivo. *NeuroImage*, **2010**, 49, 2958-65	7.9	83
61	Within-subject variability of BOLD response dynamics. *NeuroImage*, **2003**, 19, 784-96	7.9	74
60	Meta-analysis of functional imaging data using replicator dynamics. *Human Brain Mapping*, **2005**, 25, 165-73	5.9	67
59	On multivariate spectral analysis of fMRI time series. *NeuroImage*, **2001**, 14, 347-56	7.9	67
58	Setting the frame: the human brain activates a basic low-frequency network for language processing. *Cerebral Cortex*, **2010**, 20, 1286-92	5.1	62
57	Bayesian second-level analysis of functional magnetic resonance images. *NeuroImage*, **2003**, 20, 1346-55	7.9	60
56	Interoceptive awareness changes the posterior insula functional connectivity profile. *Brain Structure and Function*, **2016**, 221, 1555-71	4	59
55	Exenatide-induced reduction in energy intake is associated with increase in hypothalamic connectivity. *Diabetes Care*, **2013**, 36, 1933-40	14.6	54
54	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	5.9	53
53	Dynamic network participation of functional connectivity hubs assessed by resting-state fMRI. *Frontiers in Human Neuroscience*, **2014**, 8, 195	3.3	50
52	Perception of words and pitch patterns in song and speech. *Frontiers in Psychology*, **2012**, 3, 76	3.4	48
51	Parcellation of human amygdala in vivo using ultra high field structural MRI. *NeuroImage*, **2011**, 58, 741-8	7.9	47
50	Extracting line representations of sulcal and gyral patterns in MR images of the human brain. *IEEE Transactions on Medical Imaging*, **1998**, 17, 1040-8	11.7	46
49	Model-based clustering of meta-analytic functional imaging data. *Human Brain Mapping*, **2008**, 29, 177-92	5.9	43
48	Deficient approaches to human neuroimaging. *Frontiers in Human Neuroscience*, **2014**, 8, 462	3.3	42
47	Three-dimensional mean-shift edge bundling for the visualization of functional connectivity in the brain. *IEEE Transactions on Visualization and Computer Graphics*, **2014**, 20, 471-80	4	41

46	Commentary: Cluster failure: Why fMRI inferences for spatial extent have inflated false-positive rates. *Frontiers in Human Neuroscience*, **2017**, 11, 345	3.3	35
45	Voxel-based surface area estimation: from theory to practice. *Pattern Recognition*, **2003**, 36, 2531-2541	7.7	35
44	The auditory cortex hosts network nodes influential for emotion processing: An fMRI study on music-evoked fear and joy. *PLoS ONE*, **2018**, 13, e0190057	3.7	31
43	Using replicator dynamics for analyzing fMRI data of the human brain. *IEEE Transactions on Medical Imaging*, **2002**, 21, 485-92	11.7	30
42	A software tool for interactive exploration of intrinsic functional connectivity opens new perspectives for brain surgery. *Acta Neurochirurgica*, **2011**, 153, 1561-72	3	28
41	Characterization of cortical thickness and ventricular width in normal aging: a morphometric study at 3 Tesla. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 513-9	5.6	27
40	Using non-negative matrix factorization for single-trial analysis of fMRI data. *NeuroImage*, **2007**, 37, 1148-60	7.9	26
39	Morphology-based cortical thickness estimation. *Lecture Notes in Computer Science*, **2003**, 18, 89-100	0.9	26
38	Investigating the wavelet coherence phase of the BOLD signal. *Journal of Magnetic Resonance Imaging*, **2004**, 20, 145-52	5.6	23
37	Morphometry demonstrates loss of cortical thickness in cerebral microangiopathy. *Journal of Neurology*, **2005**, 252, 441-7	5.5	21
36	Image restoration and spatial resolution in 7-tesla magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2010**, 64, 15-22	4.4	20
35	"More is different" in functional magnetic resonance imaging: a review of recent data analysis techniques. *Brain Connectivity*, **2013**, 3, 223-39	2.7	19
34	LISA improves statistical analysis for fMRI. *Nature Communications*, **2018**, 9, 4014	17.4	19
33	Learning partially directed functional networks from meta-analysis imaging data. *NeuroImage*, **2010**, 49, 1372-84	7.9	18
32	The parcellation of cortical areas using replicator dynamics in fMRI. *NeuroImage*, **2006**, 32, 208-19	7.9	18
31	Investigating the stimulus-dependent temporal dynamics of the BOLD signal using spectral methods. *Journal of Magnetic Resonance Imaging*, **2003**, 17, 375-82	5.6	17
30	Wavelet statistics of functional MRI data and the general linear model. *Journal of Magnetic Resonance Imaging*, **2003**, 17, 20-30	5.6	15
29	Analysis and synthesis of textures: A co-occurrence-based approach. *Computers and Graphics*, **1995**, 19, 29-36	1.8	15

28	Self-regulation of brain rhythms in the precuneus: a novel BCI paradigm for patients with ALS. *Journal of Neural Engineering*, **2016**, 13, 066021	5	13
27	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	5.6	13
26	Prioritizing spatial accuracy in high-resolution fMRI data using multivariate feature weight mapping. *Frontiers in Neuroscience*, **2014**, 8, 66	5.1	10
25	Response to commentaries on our paper: Critical comments on dynamic causal modelling. *NeuroImage*, **2013**, 75, 279-281	7.9	9
24	Magnetic resonance imaging of the human frontal cortex reveals differential anterior-posterior variability of sulcal basins. *NeuroImage*, **2005**, 25, 646-51	7.9	8
23	Task-Related Edge Density (TED)-A New Method for Revealing Dynamic Network Formation in fMRI Data of the Human Brain. *PLoS ONE*, **2016**, 11, e0158185	3.7	8
22	Connectivity concordance mapping: a new tool for model-free analysis of FMRI data of the human brain. *Frontiers in Systems Neuroscience*, **2012**, 6, 13	3.5	7
21	Automatic detection and labelling of the human cortical folds in magnetic resonance data sets. *Lecture Notes in Computer Science*, **1998**, 369-381	0.9	7
20	The BOLD sensitivity of rapid steady-state sequences. *Magnetic Resonance in Medicine*, **2019**, 81, 2526-2535	4.4	7
19	Detecting groups of coherent voxels in functional MRI data using spectral analysis and replicator dynamics. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 1642-50	5.6	5
18	An evidential reasoning approach to the classification of satellite images. *Lecture Notes in Computer Science*, **1991**, 227-231	0.9	5
17	The correlation between blood oxygenation level-dependent signal strength and latency. *Journal of Magnetic Resonance Imaging*, **2005**, 21, 489-94	5.6	4
16	Automatic detection of sulcal bottom lines in MR images of the human brain. *Lecture Notes in Computer Science*, **1997**, 369-374	0.9	4
15	Exploring functional relations between brain regions from fMRI meta-analysis data: comments on Ramsey, Spirtes, and Glymour. *NeuroImage*, **2011**, 57, 331-3	7.9	3
14	Lipsia □A software package for the analysis of fMRI data. *NeuroImage*, **2001**, 13, 190	7.9	3
13	Eigenvector centrality mapping for ultrahigh resolution fMRI data of the human brain		3
12	Brainglance: Visualizing Group Level MRI Data at One Glance. *Frontiers in Neuroscience*, **2019**, 13, 972	5.1	2
11	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	11.5	2

10	Conjunction analysis and propositional logic in fMRI data analysis using Bayesian statistics. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 1533-9	5.6	2
9	Extracting lines of maximal depth from MR images of the human brain **1996**,		2
8	Surface Area Estimation in Practice. *Lecture Notes in Computer Science*, **2003**, 358-367	0.9	1
7	Predicting intelligence from fMRI data of the human brain in a few minutes of scan time		1
6	Jumping over baselines with new methods to predict activation maps from resting-state fMRI. *Scientific Reports*, **2021**, 11, 3480	4.9	1
5	Detecting Functionally Coherent Networks in fMRI Data of the Human Brain Using Replicator Dynamics. *Lecture Notes in Computer Science*, **2001**, 218-224	0.9	1
4	A new method of extracting closed contours using maximal discs. *Lecture Notes in Computer Science* , **1995**, 472-479	0.9	1
3	New concepts in brain networks. *Frontiers in Systems Neuroscience*, **2012**, 6, 56	3.5	0
2	A construction of an averaged representation of human cortical gyri using non-linear principal component analysis. *Lecture Notes in Computer Science*, **2005**, 8, 749-56	0.9	
1	Investigating cortical variability using a generic gyral model. *Lecture Notes in Computer Science*, **2006**, 9, 109-16	0.9	