Alard Roebroeck

List of Publications by Year in Descending Order

59 papers	**4,505** citations	**34** h-index	**63** g-index
63 ext. papers	**5,337** ext. citations	**5.7** avg, IF	**5.65** L-index

#	Paper	IF	Citations
59	Dedicated container for postmortem human brain ultra-high field magnetic resonance imaging. *NeuroImage*, **2021**, 235, 118010	7.9	0
58	MESMERISED: Super-accelerating T relaxometry and diffusion MRI with STEAM at 7 T for quantitative multi-contrast and diffusion imaging. *NeuroImage*, **2021**, 239, 118285	7.9	2
57	Human larynx motor cortices coordinate respiration for vocal-motor control. *NeuroImage*, **2021**, 239, 118326	7.9	4
56	Power of mind: Attentional focus rather than palatability dominates neural responding to visual food stimuli in females with overweight. *Appetite*, **2020**, 148, 104609	4.5	4
55	Gray matter network reorganization in multiple sclerosis from 7-Tesla and 3-Tesla MRI data. *Annals of Clinical and Translational Neurology*, **2020**, 7, 543-553	5.3	6
54	Ex vivo diffusion MRI of the human brain: Technical challenges and recent advances. *NMR in Biomedicine*, **2019**, 32, e3941	4.4	52
53	Ultra-high resolution and multi-shell diffusion MRI of intact ex vivo human brains using k-dSTEAM at 9.4T. *NeuroImage*, **2019**, 202, 116087	7.9	18
52	Scalable Labeling for Cytoarchitectonic Characterization of Large Optically Cleared Human Neocortex Samples. *Scientific Reports*, **2019**, 9, 10880	4.9	14
51	The mesoSPIM initiative: open-source light-sheet microscopes for imaging cleared tissue. *Nature Methods*, **2019**, 16, 1105-1108	21.6	83
50	Characterizing Microstructural Tissue Properties in Multiple Sclerosis with Diffusion MRI at 7 T and 3 T: The Impact of the Experimental Design. *Neuroscience*, **2019**, 403, 17-26	3.9	40
49	Individualized parcellation of the subthalamic nucleus in patients with Parkinson's disease with 7T MRI. *NeuroImage*, **2018**, 168, 403-411	7.9	65
48	SAR and scan-time optimized 3D whole-brain double inversion recovery imaging at 7T. *Magnetic Resonance in Medicine*, **2018**, 79, 2620-2628	4.4	1
47	Robust and Fast Markov Chain Monte Carlo Sampling of Diffusion MRI Microstructure Models. *Frontiers in Neuroinformatics*, **2018**, 12, 97	3.9	9
46	Compressed Sensing Diffusion Spectrum Imaging for Accelerated Diffusion Microstructure MRI in Long-Term Population Imaging. *Frontiers in Neuroscience*, **2018**, 12, 650	5.1	14
45	Curvilinear locus coeruleus functional connectivity trajectories over the adult lifespan: a 7T MRI study. *Neurobiology of Aging*, **2018**, 69, 167-176	5.6	15
44	Differential Time Course of Microstructural White Matter in Patients With Psychotic Disorder and Individuals at Risk: A 3-Year Follow-up Study. *Schizophrenia Bulletin*, **2017**, 43, 160-170	1.3	15
43	A "kissing lesion": In-vivo 7T evidence of meningeal inflammation in early multiple sclerosis. *Multiple Sclerosis Journal*, **2017**, 23, 1167-1169	5	10

42	On the importance of modeling fMRI transients when estimating effective connectivity: A dynamic causal modeling study using ASL data. *NeuroImage*, **2017**, 155, 217-233	7.9	20
41	Determining Excitatory and Inhibitory Neuronal Activity from Multimodal fMRI Data Using a Generative Hemodynamic Model. *Frontiers in Neuroscience*, **2017**, 11, 616	5.1	36
40	Including diffusion time dependence in the extra-axonal space improves in vivo estimates of axonal diameter and density in human white matter. *NeuroImage*, **2016**, 130, 91-103	7.9	73
39	A Specialized Multi-Transmit Head Coil for High Resolution fMRI of the Human Visual Cortex at 7T. *PLoS ONE*, **2016**, 11, e0165418	3.7	17
38	Ultra-High Field MRI Post Mortem Structural Connectivity of the Human Subthalamic Nucleus, Substantia Nigra, and Globus Pallidus. *Frontiers in Neuroanatomy*, **2016**, 10, 66	3.6	31
37	Automatic Segmentation of Human Cortical Layer-Complexes and Architectural Areas Using Diffusion MRI and Its Validation. *Frontiers in Neuroscience*, **2016**, 10, 487	5.1	17
36	Assessing Microstructural Substrates of White Matter Abnormalities: A Comparative Study Using DTI and NODDI. *PLoS ONE*, **2016**, 11, e0167884	3.7	37
35	T1 relaxometry of crossing fibres in the human brain. *NeuroImage*, **2016**, 141, 133-142	7.9	38
34	White matter microstructure pathology in classic galactosemia revealed by neurite orientation dispersion and density imaging. *Journal of Inherited Metabolic Disease*, **2015**, 38, 295-304	5.4	45
33	Physiologically informed dynamic causal modeling of fMRI data. *NeuroImage*, **2015**, 122, 355-72	7.9	67
32	Neural predictors of chocolate intake following chocolate exposure. *Appetite*, **2015**, 87, 98-107	4.5	16
31	Unraveling the multiscale structural organization and connectivity of the human brain: the role of diffusion MRI. *Frontiers in Neuroanatomy*, **2015**, 9, 77	3.6	22
30	Histological validation of high-resolution DTI in human post mortem tissue. *Frontiers in Neuroanatomy*, **2015**, 9, 98	3.6	79
29	The When and Where of Working Memory Dysfunction in Early-Onset Schizophrenia-A Functional Magnetic Resonance Imaging Study. *Cerebral Cortex*, **2015**, 25, 2494-506	5.1	34
28	General overview on the merits of multimodal neuroimaging data fusion. *NeuroImage*, **2014**, 102 Pt 1, 3-10	7.9	112
27	Ultra-high field magnetic resonance imaging of the basal ganglia and related structures. *Frontiers in Human Neuroscience*, **2014**, 8, 876	3.3	37
26	TMS affects moral judgment, showing the role of DLPFC and TPJ in cognitive and emotional processing. *Frontiers in Neuroscience*, **2014**, 8, 18	5.1	47
25	Comparative analysis of the macroscale structural connectivity in the macaque and human brain. *PLoS Computational Biology*, **2014**, 10, e1003529	5	52

24	Microstructural white matter alterations in psychotic disorder: a family-based diffusion tensor imaging study. *Schizophrenia Research*, **2013**, 146, 291-300	3.6	16
23	Histological validation of DW-MRI tractography in human postmortem tissue. *Cerebral Cortex*, **2013**, 23, 442-50	5.1	79
22	Integration of "what" and "where" in frontal cortex during visual imagery of scenes. *NeuroImage*, **2012**, 60, 47-58	7.9	37
21	Fighting food temptations: the modulating effects of short-term cognitive reappraisal, suppression and up-regulation on mesocorticolimbic activity related to appetitive motivation. *NeuroImage*, **2012**, 60, 213-20	7.9	102
20	A short history of causal modeling of fMRI data. *NeuroImage*, **2012**, 62, 856-63	7.9	80
19	Human cortical connectome reconstruction from diffusion weighted MRI: the effect of tractography algorithm. *NeuroImage*, **2012**, 62, 1732-49	7.9	143
18	Effective connectivity: influence, causality and biophysical modeling. *NeuroImage*, **2011**, 58, 339-61	7.9	274
17	The identification of interacting networks in the brain using fMRI: Model selection, causality and deconvolution. *NeuroImage*, **2011**, 58, 296-302	7.9	167
16	Reply to Friston and David. *NeuroImage*, **2011**, 58, 310-311	7.9	29
15	Mapping the information flow from one brain to another during gestural communication. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9388-93	11.5	253
14	Imagery of a moving object: the role of occipital cortex and human MT/V5+. *NeuroImage*, **2010**, 49, 794-804	7.9	62
13	Brain network dynamics underlying visuospatial judgment: an FMRI connectivity study. *Journal of Cognitive Neuroscience*, **2010**, 22, 2012-26	3.1	30
12	Specialization in the default mode: Task-induced brain deactivations dissociate between visual working memory and attention. *Human Brain Mapping*, **2010**, 31, 126-39	5.9	133
11	Ground truth hardware phantoms for validation of diffusion-weighted MRI applications. *Journal of Magnetic Resonance Imaging*, **2010**, 32, 482-8	5.6	57
10	Multimodal imaging: an evaluation of univariate and multivariate methods for simultaneous EEG/fMRI. *Magnetic Resonance Imaging*, **2010**, 28, 1104-12	3.3	28
9	Anatomical brain connectivity and positive symptoms of schizophrenia: a diffusion tensor imaging study. *Psychiatry Research - Neuroimaging*, **2009**, 174, 9-16	2.9	103
8	Hunger is the best spice: an fMRI study of the effects of attention, hunger and calorie content on food reward processing in the amygdala and orbitofrontal cortex. *Behavioural Brain Research*, **2009**, 198, 149-58	3.4	258
7	Interaction of speech and script in human auditory cortex: insights from neuro-imaging and effective connectivity. *Hearing Research*, **2009**, 258, 152-64	3.9	51

List of Publications

6	FMRI effective connectivity and TMS chronometry: complementary accounts of causality in the visuospatial judgment network. *PLoS ONE*, **2009**, 4, e8307	3.7	27
5	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4 T. *NeuroImage*, **2008**, 39, 157-68	7.9	77
4	Investigating directed influences between activated brain areas in a motor-response task using fMRI. *Magnetic Resonance Imaging*, **2006**, 24, 181-5	3.3	85
3	Mapping directed influence over the brain using Granger causality and fMRI. *NeuroImage*, **2005**, 25, 230-42	7.9	753
2	Investigating directed cortical interactions in time-resolved fMRI data using vector autoregressive modeling and Granger causality mapping. *Magnetic Resonance Imaging*, **2003**, 21, 1251-61	3.3	513
1	Scalable cytoarchitectonic characterization of large intact human neocortex samples		2