

# Gisela E Hagberg

## List of Publications by Year in descending order

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85  
papers

3,091  
citations

126907

33  
h-index

175258

52  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perception is associated with the brain's metabolic response to sensory stimulation. <i>ELife</i> , 2022, 11, .	6.0	11
2	Developing formalin-based fixative agents for post mortem brain MRI at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2481-2494.	3.0	5
3	Microvascular imaging of the unstained human superior colliculus using synchrotron-radiation phase-contrast microtomography. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
4	Phase-based masking for quantitative susceptibility mapping of the human brain at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2267-2276.	3.0	7
5	T2-Pseudonormalization and Microstructural Characterization in Advanced Stages of Late-infantile Metachromatic Leukodystrophy. <i>Clinical Neuroradiology</i> , 2021, 31, 969-980.	1.9	10
6	Multi-echo gradient-recalled-echo phase unwrapping using a Nyquist sampled virtual echo train in the presence of high-field gradients. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2220-2233.	3.0	1
7	Quantitative Susceptibility Mapping of the Basal Ganglia and Thalamus at 9.4 Tesla. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 725731.	1.7	2
8	Disturbed Balance of Inhibitory Signaling Links Hearing Loss and Cognition. <i>Frontiers in Neural Circuits</i> , 2021, 15, 785603.	2.8	11
9	Depth relationships and measures of tissue thickness in dorsal midbrain. <i>Human Brain Mapping</i> , 2020, 41, 5083-5096.	3.6	4
10	Ultra-High Field MRI in Alzheimer's Disease: Effective Transverse Relaxation Rate and Quantitative Susceptibility Mapping of Human Brain In Vivo and Ex Vivo compared to Histology. <i>Journal of Alzheimer's Disease</i> , 2020, 73, 1481-1499.	2.6	24
11	In-vivo quantitative structural imaging of the human midbrain and the superior colliculus at 9.4T. <i>NeuroImage</i> , 2018, 177, 117-128.	4.2	11
12	[1004] Diffusion-weighted MRI: Techniques, applications and challenges in oncology. <i>Physica Medica</i> , 2018, 52, 2.	0.7	0
13	Depth-dependence of visual signals in the human superior colliculus at 9.4 T. <i>Human Brain Mapping</i> , 2017, 38, 574-587.	3.6	11
14	“Wrong Way Up”: Temporal and Spatial Dynamics of the Networks for Body Motion Processing at 9.4 T. <i>Cerebral Cortex</i> , 2017, 27, 5318-5330.	2.9	21
15	Whole brain MP2RAGE-based mapping of the longitudinal relaxation time at 9.4T. <i>NeuroImage</i> , 2017, 144, 203-216.	4.2	40
16	Assessing White Matter Microstructure in Brain Regions with Different Myelin Architecture Using MRI. <i>PLoS ONE</i> , 2016, 11, e0167274.	2.5	37
17	MR spectroscopy for in vivo assessment of the oncometabolite 2-hydroxyglutarate and its effects on cellular metabolism in human brain gliomas at 9.4T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 823-833.	3.4	36
18	Physics of Hybrid Imaging. , 2016, , 3-12.		0

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19	Bone Marrow Lipid Profiles from Peripheral Skeleton as Potential Biomarkers for Osteoporosis: A 1H-MR Spectroscopy Study. <i>Academic Radiology</i> , 2016, 23, 273-283.	2.5	49
20	Diffusion properties of conventional and calcium-sensitive MRI contrast agents in the rat cerebral cortex. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 71-82.	0.8	22
21	Functional quantitative susceptibility mapping (fQSM). <i>NeuroImage</i> , 2014, 100, 112-124.	4.2	76
22	Investigation of a Calcium-Responsive Contrast Agent in Cellular Model Systems: Feasibility for Use as a Smart Molecular Probe in Functional MRI. <i>ACS Chemical Neuroscience</i> , 2014, 5, 360-369.	3.5	29
23	Dual-Frequency Calcium-Responsive MRI Agents. <i>Chemistry - A European Journal</i> , 2014, 20, 7351-7362.	3.3	44
24	E07 Progressive Iron Accumulation In Huntington Disease Basal Ganglia: A Longitudinal Study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, A37-A38.	1.9	0
25	Aryl-Phosphonate Lanthanide Complexes and Their Fluorinated Derivatives: Investigation of Their Unusual Relaxometric Behavior and Potential Application as Dual Frequency <sup>1</sup> H/ <sup>19</sup> F MRI Probes. <i>Chemistry - A European Journal</i> , 2013, 19, 11644-11660.	3.3	18
26	Effect of $r_1$ and $r_2$ relaxivity of gadolinium-based contrast agents on the $T_1$ -weighted MR signal at increasing magnetic field strengths. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 456-465.	0.8	62
27	A smart <sup>19</sup> F and <sup>1</sup> H MRI probe with self-immolative linker as a versatile tool for detection of enzymes. <i>Contrast Media and Molecular Imaging</i> , 2012, 7, 478-483.	0.8	37
28	Phase stability in fMRI time series: Effect of noise regression, off-resonance correction and spatial filtering techniques. <i>NeuroImage</i> , 2012, 59, 3748-3761.	4.2	23
29	Metabolic correlates of brain activity in a FOS epilepsy patient. <i>NMR in Biomedicine</i> , 2010, 23, 170-178.	2.8	14
30	Combined Volumetry and DTI in Subcortical Structures of Mild Cognitive Impairment and Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2010, 19, 1273-1282.	2.6	107
31	Smoothing that does not blur: Effects of the anisotropic approach for evaluating diffusion tensor imaging data in the clinic. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 690-697.	3.4	15
32	The sign convention for phase values on different vendor systems: definition and implications for susceptibility-weighted imaging. <i>Magnetic Resonance Imaging</i> , 2010, 28, 297-300.	1.8	18
33	<i>In vivo</i> quantification of the bound pool $T_1$ in human white matter using the binary spin-bath model of progressive magnetization transfer saturation. <i>Physics in Medicine and Biology</i> , 2009, 54, N529-N540.	3.0	41
34	Volume and iron content in basal ganglia and thalamus. <i>Human Brain Mapping</i> , 2009, 30, 2667-2675.	3.6	98
35	Characterization of white matter fiber bundles with $T_1$ relaxometry and diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1066-1072.	3.0	62
36	Advantages of using multiple-echo image combination and asymmetric triangular phase masking in magnetic resonance venography at 3 T. <i>Magnetic Resonance Imaging</i> , 2009, 27, 23-37.	1.8	23

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37	A highly sensitive radial diffusion measurement method for white matter tract investigation. <i>Magnetic Resonance Imaging</i> , 2009, 27, 519-530.	1.8	2
38	Quantification of gray matter changes in the cerebral cortex after isolated cerebellar damage: a voxel-based morphometry study. <i>Neuroscience</i> , 2009, 162, 827-835.	2.3	39
39	The effect of physiological noise in phase functional magnetic resonance imaging: from blood oxygen level-dependent effects to direct detection of neuronal currents. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1026-1040.	1.8	31
40	Structural Correlates of Implicit Learning Deficits in Subjects with Developmental Dyslexia. <i>Annals of the New York Academy of Sciences</i> , 2008, 1145, 212-221.	3.8	41
41	Realistic simulations of neuronal activity: A contribution to the debate on direct detection of neuronal currents by MRI. <i>NeuroImage</i> , 2008, 39, 87-106.	4.2	55
42	Essential Head Tremor Is Associated with Cerebellar Vermis Atrophy: A Volumetric and Voxel-Based Morphometry MR Imaging Study. <i>American Journal of Neuroradiology</i> , 2008, 29, 1692-1697.	2.4	158
43	Multimodal fMRI tractography in normal subjects and in clinically recovered traumatic brain injury patients. <i>NeuroImage</i> , 2007, 34, 1331-1341.	4.2	27
44	Model-free analysis of brain fMRI data by recurrence quantification. <i>NeuroImage</i> , 2007, 37, 489-503.	4.2	25
45	Voxel-based analysis of R2* maps in the healthy human brain. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 1413-1420.	3.4	79
46	Implicit learning deficits in dyslexic adults: An fMRI study. <i>NeuroImage</i> , 2006, 33, 1218-1226.	4.2	133
47	Functional changes in the activity of cerebellum and frontostriatal regions during externally and internally timed movement in Parkinson's disease. <i>Brain Research Bulletin</i> , 2006, 71, 259-269.	3.0	121
48	Validation studies on the 5-hydroxy-L-[ <sup>12</sup> -11C]-tryptophan/PET method for probing the decarboxylase step in serotonin synthesis. <i>Synapse</i> , 2006, 59, 521-531.	1.2	19
49	Challenges for detection of neuronal currents by MRI. <i>Magnetic Resonance Imaging</i> , 2006, 24, 483-493.	1.8	54
50	Imaging nervous pathways with MR tractography. <i>Radiologia Medica</i> , 2006, 111, 268-283.	7.7	4
51	Dysfunction of a Structurally Normal Motor Pathway in a Brain Injury Patient as Revealed by Multimodal Integrated Techniques. <i>Neurocase</i> , 2006, 12, 232-235.	0.6	5
52	High-Field Neuroimaging in Traumatic Brain Injury. , 2006, , 169-176.		3
53	High-Field Neuroimaging in Parkinson's Disease. , 2006, , 194-200.		3
54	High-Field 3 T Imaging of Alzheimer Disease. , 2006, , 201-207.		1

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55	Nerve Pathways with MR Tractography. , 2006, , 79-90.		0
56	The appreciation of wine by sommeliers: a functional magnetic resonance study of sensory integration. <i>NeuroImage</i> , 2005, 25, 570-578.	4.2	90
57	Fast detection of diffuse axonal damage in severe traumatic brain injury: comparison of gradient-recalled echo and turbo proton echo-planar spectroscopic imaging MRI sequences. <i>American Journal of Neuroradiology</i> , 2005, 26, 1140-8.	2.4	21
58	Pulsed saturation of the standard two-pool model for magnetization transfer. Part I: The steady state. <i>Concepts in Magnetic Resonance</i> , 2004, 21A, 37-49.	1.3	15
59	Pulsed saturation of the standard two-pool model for magnetization transfer. Part II: The transition to steady state. <i>Concepts in Magnetic Resonance</i> , 2004, 21A, 50-62.	1.3	9
60	Combination of BOLD-fMRI and VEP recordings for spin-echo MRI detection of primary magnetic effects caused by neuronal currents. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1429-1440.	1.8	40
61	Simultaneous EEG&fMRI acquisition: how far is it from being a standardized technique?. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1445-1455.	1.8	32
62	Visually cued motor synchronization: modulation of fMRI activation patterns by baseline condition. <i>Neuroscience Letters</i> , 2004, 373, 32-37.	2.1	18
63	Evaluation of mixed effects in event-related fMRI studies: impact of first-level design and filtering. <i>NeuroImage</i> , 2004, 22, 1351-1370.	4.2	26
64	Intermolecular double quantum coherences (iDQC) and diffusion-weighted imaging (DWI) imaging of the human brain at 1.5 T. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1151-1157.	1.8	12
65	Quantification of magnetization transfer by sampling the transient signal using MT-prepared single-shot EPI. <i>Concepts in Magnetic Resonance</i> , 2003, 19A, 149-152.	1.3	6
66	Quantitative NumART2* mapping in functional MRI studies at 1.5 T. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1241-1249.	1.8	3
67	Coefficient D(av) is more sensitive than fractional anisotropy in monitoring progression of irreversible tissue damage in focal nonactive multiple sclerosis lesions. <i>American Journal of Neuroradiology</i> , 2003, 24, 663-70.	2.4	37
68	Brain Regions Involved in Fatigue Sensation: Reduced Acetylcarnitine Uptake into the Brain. <i>NeuroImage</i> , 2002, 17, 1256-1265.	4.2	97
69	Real-time quantification of T2* changes using multiecho planar imaging and numerical methods. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 877-882.	3.0	51
70	In vivo multiple spin echoes imaging of trabecular bone on a clinical 1.5 T MR scanner. <i>Magnetic Resonance Imaging</i> , 2002, 20, 623-629.	1.8	17
71	Kinetic Compartment Modeling of [11C]-5-Hydroxy-L-Tryptophan for Positron Emission Tomography Assessment of Serotonin Synthesis in Human Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1352-1366.	4.3	35
72	Kinetic Compartment Modeling of [11C]-5-Hydroxy-L-Tryptophan for Positron Emission Tomography Assessment of Serotonin Synthesis in Human Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, , 1352-1366.	4.3	12

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73	Presynaptic serotonin imaging in social phobia using [3-11C]-5-hydroxy-L-tryptophan and PET. <i>NeuroImage</i> , 2001, 13, 1070.	4.2	5
74	Improved Detection of Event-Related Functional MRI Signals Using Probability Functions. <i>NeuroImage</i> , 2001, 14, 1193-1205.	4.2	97
75	Synthesis and Characterization of Binding of 5-[76Br] Bromo-3-[[2(S)-Azetidiny]methoxy]pyridine, a Novel Nicotinic Acetylcholine Receptor Ligand, in Rat Brain. <i>Journal of Neurochemistry</i> , 2001, 73, 1264-1272.	3.9	22
76	PET with 11 C-deuterium-deprenyl and 18 F-FDG in focal epilepsy. <i>Acta Neurologica Scandinavica</i> , 2001, 103, 360-366.	2.1	62
77	Regulation of dopaminergic activity in early Parkinson's disease. <i>Annals of Neurology</i> , 1999, 46, 359-365.	5.3	37
78	Increased dopamine synthesis rate in medial prefrontal cortex and striatum in schizophrenia indicated by L-( $\beta$ -11C) DOPA and PET. <i>Biological Psychiatry</i> , 1999, 46, 681-688.	1.3	267
79	From magnetic resonance spectroscopy to classification of tumors. A review of pattern recognition methods. , 1998, 11, 148-156.		97
80	N-[11C]Methylspiperone PET, in contrast to [11C]raclopride, fails to detect D2 receptor occupancy by an atypical neuroleptic. <i>Psychiatry Research - Neuroimaging</i> , 1998, 82, 147-160.	1.8	30
81	Assignment of glial brain tumors in humans byin vivo 1H-magnetic resonance spectroscopy and multidimensional metabolic classification. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1997, 5, 179-183.	2.0	16
82	Proton chemical shift imaging, metabolic maps, and single voxel spectroscopy of glial brain tumors. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1996, 4, 139-150.	2.0	36
83	Proton MRS of Gadolinium-enhancing MS Plaques and Metabolic Changes in Normal-Appearing White Matter. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 811-817.	3.0	54
84	In Vivo proton MR spectroscopy of human gliomas: definition of metabolic coordinates for multi-dimensional classification. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 242-252.	3.0	68
85	Phase Variations in fMRI Time Series Analysis: Friend or Foe?. , 0, , .		2