

Peter van Gelderen

List of Publications by Year in descending order

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117
papers

12,656
citations

25034

57
h-index

24982

109
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119
all docs

119
docs citations

119
times ranked

11907
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical lesion hotspots and association of subpial lesions with disability in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2022, 28, 1351-1363.	3.0	23
2	Cerebrovascular activity is a major factor in the cerebrospinal fluid flow dynamics. <i>NeuroImage</i> , 2022, 258, 119362.	4.2	8
3	fMRI based on transition-band balanced SSFP in comparison with EPI on a high-performance 0.55 T scanner. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3196-3210.	3.0	5
4	Sensitivity limitations of high-resolution perfusion-based human fMRI at 7 Tesla. <i>Magnetic Resonance Imaging</i> , 2021, 84, 135-144.	1.8	2
5	Background suppressed magnetization transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 883-891.	3.0	1
6	B0-field dependence of MRI T1 relaxation in human brain. <i>NeuroImage</i> , 2020, 213, 116700.	4.2	25
7	White matter intercompartmental water exchange rates determined from detailed modeling of the myelin sheath. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 628-638.	3.0	18
8	All-night functional magnetic resonance imaging sleep studies. <i>Journal of Neuroscience Methods</i> , 2019, 316, 83-98.	2.5	19
9	Contribution of systemic vascular effects to fMRI activity in white matter. <i>NeuroImage</i> , 2018, 176, 541-549.	4.2	60
10	Optically controlled on-coil amplifier with RF monitoring feedback. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2833-2841.	3.0	3
11	Effect of head motion on MRI B ₀ field distribution. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2538-2548.	3.0	40
12	Impulse response timing differences in BOLD and CBV weighted fMRI. <i>NeuroImage</i> , 2018, 181, 292-300.	4.2	6
13	Rapid measurement of brain macromolecular proton fraction with transient saturation transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2174-2185.	3.0	28
14	Spectral characteristics of semisolid protons in human brain white matter at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1950-1958.	3.0	7
15	Optically controlled switch-mode current source amplifiers for on-coil implementation in high-field parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 340-349.	3.0	7
16	Effects of magnetization transfer on T1 contrast in human brain white matter. <i>NeuroImage</i> , 2016, 128, 85-95.	4.2	52
17	A torque balance measurement of anisotropy of the magnetic susceptibility in white matter. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1388-1396.	3.0	20
18	A 7T spine array based on electric dipole transmitters. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1189-1197.	3.0	27

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19	Detection of demyelination in multiple sclerosis by analysis of T_2 relaxation at 7 T. <i>NeuroImage: Clinical</i> , 2015, 7, 709-714.	3.1	21
20	Investigation of BOLD fMRI resonance frequency shifts and quantitative susceptibility changes at 7 T. <i>Human Brain Mapping</i> , 2014, 35, 2191-2205.	3.6	42
21	Characterization of a dielectric phantom for high-field magnetic resonance imaging applications. <i>Medical Physics</i> , 2014, 41, 102303.	3.0	80
22	Neuroelectrical Decomposition of Spontaneous Brain Activity Measured with Functional Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2014, 24, 3080-3089.	2.9	16
23	7 Tesla Magnetic Resonance Imaging to Detect Cortical Pathology in Multiple Sclerosis. <i>PLoS ONE</i> , 2014, 9, e108863.	2.5	63
24	Micro-compartment specific T_2 relaxation in the brain. <i>NeuroImage</i> , 2013, 77, 268-278.	4.2	182
25	In vivo evaluation of the effect of stimulus distribution on FIR statistical efficiency in event-related fMRI. <i>Journal of Neuroscience Methods</i> , 2013, 215, 190-195.	2.5	10
26	Independent Sources of Spontaneous BOLD Fluctuation Along the Visual Pathway. <i>Brain Topography</i> , 2013, 26, 525-537.	1.8	7
27	Improved Bloch-Siegert based B_1 mapping by reducing off-resonance shift. <i>NMR in Biomedicine</i> , 2013, 26, 1070-1078.	2.8	20
28	Chronic Multiple Sclerosis Lesions: Characterization with High-Field-Strength MR Imaging. <i>Radiology</i> , 2012, 262, 206-215.	7.3	109
29	In vivo quantification of T_2 anisotropy in white matter fibers in marmoset monkeys. <i>NeuroImage</i> , 2012, 59, 979-985.	4.2	70
30	Statistical feature extraction for artifact removal from concurrent fMRI-EEG recordings. <i>NeuroImage</i> , 2012, 59, 2073-2087.	4.2	83
31	The contribution of myelin to magnetic susceptibility-weighted contrasts in high-field MRI of the brain. <i>NeuroImage</i> , 2012, 59, 3967-3975.	4.2	186
32	The PRESTO technique for fMRI. <i>NeuroImage</i> , 2012, 62, 676-681.	4.2	36
33	Finding thalamic BOLD correlates to posterior alpha EEG. <i>NeuroImage</i> , 2012, 63, 1060-1069.	4.2	92
34	Iron Accumulation in Deep Cortical Layers Accounts for MRI Signal Abnormalities in ALS: Correlating 7 Tesla MRI and Pathology. <i>PLoS ONE</i> , 2012, 7, e35241.	2.5	221
35	Tailored excitation using nonlinear B_0 shims. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 601-608.	3.0	8
36	Time-resolved and spatio-temporal analysis of complex cognitive processes and their role in disorders like developmental dyscalculia. <i>International Journal of Imaging Systems and Technology</i> , 2012, 22, 81-96.	4.1	5

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37	Nonexponential T_2^* decay in white matter. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 110-117.	3.0	101
38	T_2^* -based fiber orientation mapping. <i>NeuroImage</i> , 2011, 57, 225-234.	4.2	118
39	Negative BOLD-fMRI Signals in Large Cerebral Veins. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 401-412.	4.3	80
40	Transmit B1-field correction at 7T using actively tuned coupled inner elements. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 901-910.	3.0	16
41	Tracking iron in multiple sclerosis: a combined imaging and histopathological study at 7 Tesla. <i>Brain</i> , 2011, 134, 3602-3615.	7.6	282
42	Lesions by tissue specific imaging characterize multiple sclerosis patients with more advanced disease. <i>Multiple Sclerosis Journal</i> , 2011, 17, 1424-1431.	3.0	12
43	Sensitivity of MRI resonance frequency to the orientation of brain tissue microstructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5130-5135.	7.1	238
44	Layer-specific variation of iron content in cerebral cortex as a source of MRI contrast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3834-3839.	7.1	377
45	Prospective head movement correction for high-resolution MRI using an in-bore optical tracking system. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 924-934.	3.0	127
46	Magnetic susceptibility mapping of brain tissue in vivo using MRI phase data. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1510-1522.	3.0	460
47	Characterization of T_2^* heterogeneity in human brain white matter. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1652-1657.	3.0	76
48	Sources of functional magnetic resonance imaging signal fluctuations in the human brain at rest: a 7 T study. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1019-1029.	1.8	213
49	Making the most of fMRI at 7T by suppressing spontaneous signal fluctuations. <i>NeuroImage</i> , 2009, 44, 448-454.	4.2	46
50	Susceptibility contrast in high field MRI of human brain as a function of tissue iron content. <i>NeuroImage</i> , 2009, 44, 1259-1266.	4.2	266
51	Modulation of spontaneous fMRI activity in human visual cortex by behavioral state. <i>NeuroImage</i> , 2009, 45, 160-168.	4.2	169
52	Hemodynamic nonlinearities affect BOLD fMRI response timing and amplitude. <i>NeuroImage</i> , 2009, 47, 1649-1658.	4.2	52
53	Reducing correlated noise in fMRI data. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 939-945.	3.0	28
54	Pitfalls of MRI measurement of white matter perfusion based on arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 788-795.	3.0	159

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55	Low frequency BOLD fluctuations during resting wakefulness and light sleep: A simultaneous EEG-fMRI study. <i>Human Brain Mapping</i> , 2008, 29, 671-682.	3.6	521
56	Metabolic Origin of Bold Signal Fluctuations in the Absence of Stimuli. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1377-1387.	4.3	93
57	Mapping resting-state functional connectivity using perfusion MRI. <i>NeuroImage</i> , 2008, 40, 1595-1605.	4.2	109
58	High-field MRI of brain cortical substructure based on signal phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11796-11801.	7.1	610
59	Low-frequency fluctuations in the cardiac rate as a source of variance in the resting-state fMRI BOLD signal. <i>NeuroImage</i> , 2007, 38, 306-320.	4.2	508
60	Real-time shimming to compensate for respiration-induced BOLD fluctuations. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 362-368.	3.0	170
61	Improved BOLD detection in the medial temporal region using parallel imaging and voxel volume reduction. <i>NeuroImage</i> , 2006, 29, 1244-1251.	4.2	80
62	Extensive heterogeneity in white matter intensity in high-resolution T2*-weighted MRI of the human brain at 7.0 T. <i>NeuroImage</i> , 2006, 32, 1032-1040.	4.2	128
63	An adaptive filter for suppression of cardiac and respiratory noise in MRI time series data. <i>NeuroImage</i> , 2006, 33, 1072-1081.	4.2	92
64	Large-amplitude, spatially correlated fluctuations in BOLD fMRI signals during extended rest and early sleep stages. <i>Magnetic Resonance Imaging</i> , 2006, 24, 979-992.	1.8	326
65	Accelerated parallel imaging for functional imaging of the human brain. <i>NMR in Biomedicine</i> , 2006, 19, 342-351.	2.8	54
66	Receive Coil Arrays and Parallel Imaging for Functional Magnetic Resonance Imaging of the Human Brain. , 2006, 2006, 17-20.		5
67	Technological advances in MRI measurement of brain perfusion. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 751-753.	3.4	32
68	Optimizing brain tissue contrast with EPI: A simulated annealing approach. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 373-385.	3.0	14
69	Resolution and reproducibility of BOLD and perfusion functional MRI at 3.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 569-576.	3.0	23
70	Imaging Techniques for Dynamic Susceptibility Contrast-Enhanced MRI. <i>Medical Radiology</i> , 2005, , 95-108.	0.1	1
71	Temporal dynamics of the BOLD fMRI impulse response. <i>NeuroImage</i> , 2005, 24, 667-677.	4.2	110
72	Enduring representational plasticity after somatosensory stimulation. <i>NeuroImage</i> , 2005, 27, 872-884.	4.2	112

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73	Gray and White Matter Brain Volume in Aged Rats Raised on ω -3 Fatty Acid Deficient Diets. <i>Nutritional Neuroscience</i> , 2004, 7, 13-20.	3.1	11
74	EPI-BOLD fMRI of human motor cortex at 1.5 T and 3.0 T: Sensitivity dependence on echo time and acquisition bandwidth. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 19-26.	3.4	68
75	Signal-to-noise ratio and parallel imaging performance of a 16-channel receive-only brain coil array at 3.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 22-26.	3.0	164
76	Scalable multichannel MRI data acquisition system. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 165-171.	3.0	69
77	Hunting for neuronal currents: absence of rapid MRI signal changes during visual-evoked response. <i>NeuroImage</i> , 2004, 23, 1059-1067.	4.2	71
78	A PRESTO-SENSE sequence with alternating partial-Fourier encoding for rapid susceptibility-weighted 3D MRI time series. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 830-838.	3.0	28
79	Method for functional MRI mapping of nonlinear response. <i>NeuroImage</i> , 2003, 19, 190-199.	4.2	26
80	Functional Properties of Brain Areas Associated With Motor Execution and Imagery. <i>Journal of Neurophysiology</i> , 2003, 89, 989-1002.	1.8	592
81	Reduced N-Acetylaspartate in Prefrontal Cortex of Adult Rats with Neonatal Hippocampal Damage. <i>Cerebral Cortex</i> , 2002, 12, 983-990.	2.9	44
82	Monitoring Stem Cell Therapy in Vivo Using Magnetodendrimers as a New Class of Cellular MR Contrast Agents. <i>Academic Radiology</i> , 2002, 9, S332-S335.	2.5	58
83	Reduction of Gradient Acoustic Noise in MRI Using SENSE-EPI. <i>NeuroImage</i> , 2002, 16, 1151-1155.	4.2	55
84	Magnetically Labeled Glial Cells as Cellular MR Contrast Agents. <i>Academic Radiology</i> , 2002, 9, S148-S150.	2.5	14
85	Microscopic $R2^*$ mapping of reduced brain iron in the Belgrade rat. <i>Annals of Neurology</i> , 2002, 52, 102-105.	5.3	25
86	Design of a SENSE-optimized high-sensitivity MRI receive coil for brain imaging. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 1218-1227.	3.0	180
87	Imaging cortical anatomy by high-resolution MR at 3.0T: Detection of the stripe of Gennari in visual area 17. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 735-738.	3.0	151
88	Application of sensitivity-encoded echo-planar imaging for blood oxygen level-dependent functional brain imaging. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 1011-1020.	3.0	142
89	On the potential of sensitivity encoded EPI for BOLD functional brain imaging. <i>NeuroImage</i> , 2001, 13, 7.	4.2	2
90	The Role of the Medial Wall and Its Anatomical Variations for Bimanual Antiphase and In-Phase Movements. <i>NeuroImage</i> , 2001, 14, 674-684.	4.2	94

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91	High-sensitivity single-shot perfusion-weighted fMRI. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 88-94.	3.0	49
92	Magnetodendrimers allow endosomal magnetic labeling and in vivo tracking of stem cells. <i>Nature Biotechnology</i> , 2001, 19, 1141-1147.	17.5	1,016
93	Brain myo-inositol level is elevated in Ts65Dn mouse and reduced after lithium treatment. <i>NeuroReport</i> , 2000, 11, 445-448.	1.2	33
94	The variability of serial fMRI data. <i>NeuroReport</i> , 2000, 11, 3843-3847.	1.2	44
95	The relative metabolic demand of inhibition and excitation. <i>Nature</i> , 2000, 406, 995-998.	27.8	296
96	Rapid Three-dimensional MR Imaging Method for Tracking a Bolus of Contrast Agent through the Brain. <i>Radiology</i> , 2000, 216, 603-608.	7.3	29
97	The Effect of Movement Amplitude on Activation in Functional Magnetic Resonance Imaging Studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 1209-1212.	4.3	54
98	Increased iron in the dentate nucleus of patients with Friedreich's ataxia. <i>Annals of Neurology</i> , 1999, 46, 123-125.	5.3	214
99	Functional Magnetic Resonance Imaging Brain Mapping in Psychiatry: Methodological Issues Illustrated in a Study of Working Memory in Schizophrenia. <i>Neuropsychopharmacology</i> , 1998, 18, 186-196.	5.4	293
100	A comparison of fast MR scan techniques for cerebral activation studies at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 61-67.	3.0	63
101	Invited. On the feasibility of MRI-guided focused ultrasound for local induction of gene expression. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 101-104.	3.4	107
102	fMRI Applications in Schizophrenia Research. <i>NeuroImage</i> , 1996, 4, S118-S126.	4.2	86
103	Single-shot diffusion MRI of human brain on a conventional clinical instrument. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 671-677.	3.0	46
104	Fast 3D functional magnetic resonance imaging at 1.5 T with spiral acquisition. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 620-626.	3.0	72
105	Reproducibility of human 3D fMRI brain maps acquired during a motor task. , 1996, 4, 113-121.		54
106	Fast Magnetic-Resonance Temperature Imaging. <i>Journal of Magnetic Resonance Series B</i> , 1996, 112, 86-90.	1.6	61
107	Functional Mapping of Human Sensorimotor Cortex with 3D BOLD fMRI Correlates Highly with H215O PET rCBF. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 755-764.	4.3	119
108	Effects of large vessels in functional magnetic resonance imaging at 1.5T. <i>International Journal of Imaging Systems and Technology</i> , 1995, 6, 245-252.	4.1	10

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109	Functional magnetic resonance imaging in normal controls and schizophrenics. <i>Schizophrenia Research</i> , 1995, 15, 103.	2.0	0
110	Water diffusion and acute stroke. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 154-163.	3.0	396
111	Fast volume scanning with frequency-shifted burst MRI. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 429-432.	3.0	22
112	3D Bolus Tracking with Frequency-Shifted BURST MRI. <i>Journal of Computer Assisted Tomography</i> , 1994, 18, 680-687.	0.9	25
113	Fast echo-shifted gradient-recalled MRI: Combining a short repetition time with variable T2* weighting. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 68-75.	3.0	58
114	Gradient-enhanced heteronuclear correlation spectroscopy. Theory and experimental aspects. <i>Journal of Magnetic Resonance</i> , 1992, 100, 282-302.	0.5	44
115	Gradient-enhanced exchange spectroscopy. <i>Journal of Magnetic Resonance</i> , 1992, 97, 419-425.	0.5	13
116	A fast gradient-recalled MRI technique with increased sensitivity to dynamic susceptibility effects. <i>Magnetic Resonance in Medicine</i> , 1992, 26, 184-189.	3.0	116
117	Restricted and anisotropic displacement of water in healthy cat brain and in stroke studied by NMR diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 327-332.	3.0	128