

Dennis W J Klomp

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,800
citations

304743

22
h-index

197818

49
g-index

85
all docs

85
docs citations

85
times ranked

3745
citing authors

#	ARTICLE	IF	CITATIONS
1	The Coax Dipole: A fully flexible coaxial cable dipole antenna with flattened current distribution for body imaging at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 528-540.	3.0	10
2	A silent gradient axis for soundless spatial encoding to enable fast and quiet brain imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1062-1073.	3.0	8
3	Residual quadrupolar couplings observed in 7 Tesla deuterium MR spectra of skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1165-1173.	3.0	8
4	Identifying the source of spurious signals caused by B_0 inhomogeneities in single-voxel ^1H MRS. <i>Magnetic Resonance in Medicine</i> , 2022, , .	3.0	1
5	Proton metabolic mapping of the brain at 7T using a two-dimensional free induction decay echo-planar spectroscopic imaging readout with lipid suppression. <i>NMR in Biomedicine</i> , 2022, 35, e4771.	2.8	3
6	Feasibility of ^{31}P spectroscopic imaging at 7 T in lung carcinoma patients. <i>NMR in Biomedicine</i> , 2021, 34, e4204.	2.8	10
7	Can sodium MRI be used as a method for mapping of cartilage stiffness?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 327-336.	2.0	4
8	PCA denoising and Wiener deconvolution of ^{31}P 3D CSI data to enhance effective SNR and improve point spread function. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2992-3009.	3.0	15
9	No need to detune transmitters in 32-channel receiver arrays at 7T. <i>NMR in Biomedicine</i> , 2021, 34, e4491.	2.8	1
10	A plug-and-play, lightweight, single-axis gradient insert design for increasing spatiotemporal resolution in echo planar imaging-based brain imaging. <i>NMR in Biomedicine</i> , 2021, 34, e4499.	2.8	8
11	SAR and temperature distributions in a database of realistic human models for 7 T cardiac imaging. <i>NMR in Biomedicine</i> , 2021, 34, e4525.	2.8	4
12	A local multi-transmit coil combined with a high-density receive array for cerebellar fMRI at 7T. <i>NMR in Biomedicine</i> , 2021, 34, e4586.	2.8	7
13	Comparison of 2-Hydroxyglutarate Detection With sLASER and MEGA-sLASER at 7T. <i>Frontiers in Neurology</i> , 2021, 12, 718423.	2.4	9
14	Evaluation of the radiofrequency performance of a wide-bore 1.5T positron emission tomography/magnetic resonance imaging body coil for radiotherapy planning. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 17, 13-19.	2.9	2
15	In vivo biochemical assessment of cartilage with gagCEST MRI: Correlation with cartilage properties. <i>NMR in Biomedicine</i> , 2021, 34, e4463.	2.8	8
16	Whole brain ^{31}P MRSI at 7T with a dual-tuned receive array. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 765-775.	3.0	10
17	Inherently decoupled ^1H antennas and ^{31}P loops for metabolic imaging of liver metastasis at 7 T. <i>NMR in Biomedicine</i> , 2020, 33, e4221.	2.8	7
18	On the magnetic field dependence of deuterium metabolic imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4235.	2.8	46

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19	Introduction of the snake antenna array: Geometry optimization of a sinusoidal dipole antenna for 10.5T body imaging with lower peak SAR. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2885-2896.	3.0	25
20	Introduction of Ultra-High-Field MR Imaging in Infants: Preparations and Feasibility. <i>American Journal of Neuroradiology</i> , 2020, 41, 1532-1537.	2.4	14
21	Lipid-suppressed and tissue-fraction corrected metabolic distributions in human central brain structures using 2D ¹ H magnetic resonance spectroscopic imaging at 7 T. <i>Brain and Behavior</i> , 2020, 10, e01852.	2.2	17
22	T2* mapping in an equine articular groove model: Visualizing changes in collagen orientation. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2383-2389.	2.3	6
23	Pushing functional MRI spatial and temporal resolution further: High-density receive arrays combined with shot-selective 2D CAIPIRINHA for 3D echo-planar imaging at 7 T. <i>NMR in Biomedicine</i> , 2020, 33, e4281.	2.8	25
24	Measurement of T1 and T2 relaxation times of the pancreas at 7T using a multi-transmit system. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 703-708.	2.0	3
25	SNR optimized ³¹ P functional MRS to detect mitochondrial and extracellular pH change during visual stimulation. <i>NMR in Biomedicine</i> , 2019, 32, e4137.	2.8	10
26	Analysis of chemical exchange saturation transfer contributions from brain metabolites to the Z-spectra at various field strengths and pH. <i>Scientific Reports</i> , 2019, 9, 1089.	3.3	40
27	Contradiction between amide-CEST signal and pH in breast cancer explained with metabolic MRI. <i>NMR in Biomedicine</i> , 2019, 32, e4110.	2.8	20
28	Comparison of four MR carotid surface coils at 3T. <i>PLoS ONE</i> , 2019, 14, e0213107.	2.5	4
29	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
30	Early detection of changes in phospholipid metabolism during neoadjuvant chemotherapy in breast cancer patients using phosphorus magnetic resonance spectroscopy at 7T. <i>NMR in Biomedicine</i> , 2019, 32, e4086.	2.8	20
31	Homogeneous ¹ B ₁ for bilateral breast imaging at 7T using a five dipole transmit array merged with a high density receive loop array. <i>NMR in Biomedicine</i> , 2019, 32, e4039.	2.8	10
32	GLS hyperactivity causes glutamate excess, infantile cataract and profound developmental delay. <i>Human Molecular Genetics</i> , 2019, 28, 96-104.	2.9	23
33	Comparing signal-to-noise ratio for prostate imaging at 7T and 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1446-1455.	3.4	19
34	Shortening of apparent transverse relaxation time of inorganic phosphate as a breast cancer biomarker. <i>NMR in Biomedicine</i> , 2019, 32, e4011.	2.8	8
35	Potential acceleration performance of a 256-channel whole-brain receive array at 7 T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1659-1670.	3.0	17
36	Maximizing sensitivity for fast GABA edited spectroscopy in the visual cortex at 7T. <i>NMR in Biomedicine</i> , 2018, 31, e3890.	2.8	7

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37	Detection of early cartilage damage: feasibility and potential of gagCEST imaging at 7T. <i>European Radiology</i> , 2018, 28, 2874-2881.	4.5	39
38	An 8-channel Tx/Rx dipole array combined with 16 Rx loops for high-resolution functional cardiac imaging at 7ÂT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 7-18.	2.0	42
39	Improved fat suppression of the breast using discretized frequency shimming. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 593-599.	3.0	3
40	Tailored spiral inâ€out spectralâ€spatial water suppression pulses for magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 31-40.	3.0	14
41	³¹ P T ₂ s of phosphomonoesters, phosphodiester, and inorganic phosphate in the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 29-35.	3.0	14
42	Establishing upper limits on neuronal activityâ€evoked pH changes with APTâ€CEST MRI at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 126-136.	3.0	7
43	Selective protonâ€observed, carbonâ€edited (selPOCE) MRS method for measurement of glutamate and glutamine ¹³ Câ€labeling in the human frontal cortex. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 11-20.	3.0	19
44	Design of a forward view antenna for prostate imaging at 7â€%T. <i>NMR in Biomedicine</i> , 2018, 31, e3993.	2.8	4
45	Amide chemical exchange saturation transfer at 7ÂT: a possible biomarker for detecting early response to neoadjuvant chemotherapy in breast cancer patients. <i>Breast Cancer Research</i> , 2018, 20, 51.	5.0	36
46	RF coils: A practical guide for nonphysicists. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 590-604.	3.4	137
47	High-resolution T2-weighted cervical cancer imaging: a feasibility study on ultra-high-field 7.0-T MRI with an endorectal monopole antenna. <i>European Radiology</i> , 2017, 27, 938-945.	4.5	13
48	Amide proton transfer (APT) imaging of brain tumors at 7 T: The role of tissue water T1-Relaxation properties. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1525-1532.	3.0	19
49	Comparison of pulsed three-dimensional CEST acquisition schemes at 7 tesla: steady state versus pseudosteady state. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2280-2287.	3.0	25
50	Proton and phosphorus magnetic resonance spectroscopy of the healthy human breast at 7ÂT. <i>NMR in Biomedicine</i> , 2017, 30, e3684.	2.8	14
51	On the transmit field inhomogeneity correction of relaxationâ€compensated amide and NOE CEST effects at 7ÂT. <i>NMR in Biomedicine</i> , 2017, 30, e3687.	2.8	34
52	¹ Hâ€MRS processing parameters affect metabolite quantification: The urgent need for uniform and transparent standardization. <i>NMR in Biomedicine</i> , 2017, 30, e3804.	2.8	31
53	A comparison of navigators, snapâ€shot field monitoring, and probeâ€based field model training for correcting B ₀ -induced artifacts in â€weighted images at 7â€%T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1373-1382.	3.0	8
54	Detection of Glutamate Alterations in the Human Brain Using 1H-MRS: Comparison of STEAM and sLASER at 7 T. <i>Frontiers in Psychiatry</i> , 2017, 8, 60.	2.6	8

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55	Intelligence and Brain Efficiency: Investigating the Association between Working Memory Performance, Glutamate, and GABA. <i>Frontiers in Psychiatry</i> , 2017, 8, 154.	2.6	21
56	Using a whole-body 31P birdcage transmit coil and 16-element receive array for human cardiac metabolic imaging at 7T. <i>PLoS ONE</i> , 2017, 12, e0187153.	2.5	34
57	Glycerophosphocholine and Glycerophosphoethanolamine Are Not the Main Sources of the In Vivo 31P MRS Phosphodiester Signals from Healthy Fibroglandular Breast Tissue at 7 T. <i>Frontiers in Oncology</i> , 2016, 6, 29.	2.8	13
58	Proton observed phosphorus editing (POPE) for <i>in vivo</i> detection of phospholipid metabolites. <i>NMR in Biomedicine</i> , 2016, 29, 1222-1230.	2.8	10
59	Measuring motion-induced B ₀ -fluctuations in the brain using field probes. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2020-2030.	3.0	15
60	Saturation-transfer effects and longitudinal relaxation times of ³¹ P metabolites in fibroglandular breast tissue at 7T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 402-407.	3.0	3
61	2D AMESING multi-echo 31P-MRSI of the liver at 7T allows transverse relaxation assessment and T2-weighted averaging for improved SNR. <i>Magnetic Resonance Imaging</i> , 2016, 34, 219-226.	1.8	4
62	Ultra-high field MRI: what is in full bloom and what is sprouting?. <i>NMR in Biomedicine</i> , 2016, 29, 1120-1121.	2.8	4
63	Is there any difference in Amide and NOE CEST effects between white and gray matter at 7 T?. <i>Journal of Magnetic Resonance</i> , 2016, 272, 82-86.	2.1	9
64	Dielectric waveguides for ultrahigh field magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1314-1324.	3.0	8
65	Fat suppression techniques for obtaining high resolution dynamic contrast enhanced bilateral breast MR images at 7 T. <i>Magnetic Resonance Imaging</i> , 2016, 34, 462-468.	1.8	4
66	Dynamic contrast-enhanced breast MRI at 7T and 3T: an intra-individual comparison study. <i>SpringerPlus</i> , 2016, 5, 13.	1.2	9
67	The fractionated dipole antenna: A new antenna for body imaging at 7 T. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1366-1374.	3.0	181
68	Multiparametric MRI With Dynamic Contrast Enhancement, Diffusion-Weighted Imaging, and 31-Phosphorus Spectroscopy at 7 T for Characterization of Breast Cancer. <i>Investigative Radiology</i> , 2015, 50, 766-771.	6.2	31
69	Lipid suppression for brain MRI and MRSI by means of a dedicated crusher coil. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2062-2068.	3.0	41
70	¹⁹ F MRSI of capecitabine in the liver at 7T using broadband transmit-receive antennas and dual-band RF pulses. <i>NMR in Biomedicine</i> , 2015, 28, 1433-1442.	2.8	13
71	Single Session Imaging of Cerebellum at 7 Tesla: Obtaining Structure and Function of Multiple Motor Subsystems in Individual Subjects. <i>PLoS ONE</i> , 2015, 10, e0134933.	2.5	28
72	Tilt optimized flip uniformity (TOFU) RF pulse for uniform image contrast at low specific absorption rate levels in combination with a surface breast coil at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 482-488.	3.0	8

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73	Radiofrequency configuration to facilitate bilateral breast ³¹ P MR spectroscopic imaging and high-resolution MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1803-1810.	3.0	26
74	MRI and ³¹ P magnetic resonance spectroscopy hardware for axillary lymph node investigation at 7T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2038-2046.	3.0	10
75	¹ H/ ³¹ P Polarization Transfer at 9.4 Tesla for Improved Specificity of Detecting Phosphomonoesters and Phosphodiesteres in Breast Tumor Models. <i>PLoS ONE</i> , 2014, 9, e102256.	2.5	14
76	GABA and glutamate in schizophrenia: A 7T ¹ H-MRS study. <i>NeuroImage: Clinical</i> , 2014, 6, 398-407.	2.7	129
77	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. <i>Radiology</i> , 2014, 270, 658-679.	7.3	524
78	Advances in Magnetic Resonance Spectroscopy. <i>PET Clinics</i> , 2013, 8, 237-244.	3.0	3
79	Amide proton transfer imaging of the human breast at 7T: development and reproducibility. <i>NMR in Biomedicine</i> , 2013, 26, 1271-1277.	2.8	58
80	Quantitative ³¹ P magnetic resonance spectroscopy of the human breast at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 339-348.	3.0	45
81	High field MRI in clinical practice. <i>Drug Discovery Today: Technologies</i> , 2011, 8, e103-e108.	4.0	6
82	³¹ P MRSI and ¹ H MRS at 7T: initial results in human breast cancer. <i>NMR in Biomedicine</i> , 2011, 24, 1337-1342.	2.8	116
83	Short echo time ¹ H MRSI of the human brain at 3T with minimal chemical shift displacement errors using adiabatic refocusing pulses. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1-6.	3.0	257