

# Andrew G Webb

## List of Publications by Year in descending order

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Version: 2024-02-01

364  
papers

16,697  
citations

18436

62  
h-index

22102

113  
g-index

379  
all docs

379  
docs citations

379  
times ranked

16434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining deep learning and 3D contrast source inversion in MR-based electrical properties tomography. <i>NMR in Biomedicine</i> , 2022, 35, e4211.	1.6	21
2	In vivo $T_1$ and $T_2$ relaxation time maps of brain tissue, skeletal muscle, and lipid measured in healthy volunteers at 50 mT. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 884-895.	1.9	23
3	Deep neural-network based optimization for the design of a multi-element surface magnet for MRI applications. <i>Inverse Problems</i> , 2022, 38, 035003.	1.0	1
4	Baseline fat fraction is a strong predictor of disease progression in Becker muscular dystrophy. <i>NMR in Biomedicine</i> , 2022, 35, e4691.	1.6	8
5	Towards an integrated neonatal brain and cardiac examination capability at 7T: electromagnetic field simulations and early phantom experiments using an 8-channel dipole array. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 765-778.	1.1	4
6	Reply to Comments on "A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging". <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3131-3131.	3.1	0
7	Design and evaluation of a modular multimodality imaging phantom to simulate heterogeneous uptake and enhancement patterns for radiomic quantification in hybrid imaging: A feasibility study. <i>Medical Physics</i> , 2022, 49, 3093-3106.	1.6	2
8	Personalized local SAR prediction for parallel transmit neuroimaging at 7T from a single $T_1$ -weighted dataset. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 464-475.	1.9	9
9	Novel materials in magnetic resonance imaging: high permittivity ceramics, metamaterials, metasurfaces and artificial dielectrics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 875-894.	1.1	21
10	Association of shivering threshold time with body composition and brown adipose tissue in young adults. <i>Journal of Thermal Biology</i> , 2022, 108, 103277.	1.1	3
11	Microvascular response to exercise varies along the length of the tibialis anterior muscle. <i>NMR in Biomedicine</i> , 2022, 35, .	1.6	3
12	In vivo 3D brain and extremity MRI at 50 mT using a permanent magnet Halbach array. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 495-505.	1.9	81
13	Safety, pharmacokinetics and pharmacodynamics of SBT-020 in patients with early stage Huntington's disease, a 2-part study. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 2290-2302.	1.1	7
14	MRM Microcoil Performance Calibration and Usage Demonstrated on <i>Medicago truncatula</i> Roots at 22 T. <i>Journal of Visualized Experiments</i> , 2021, .	0.2	1
15	Electrical Properties Tomography: A Methodological Review. <i>Diagnostics</i> , 2021, 11, 176.	1.3	25
16	Image distortion correction for MRI in low field permanent magnet systems with strong B0 inhomogeneity and gradient field nonlinearities. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 631-642.	1.1	17
17	Effects of Simulated Error-Sources on Different 3-D CSI-EPT Strategies. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 713-723.	2.6	1
18	Quantification of Myocardial Creatine and Triglyceride Content in the Human Heart: Precision and Accuracy of in vivo Proton Magnetic Resonance Spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 411-420.	1.9	9

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19	Improving the field homogeneity of fixed- and variable-diameter discrete Halbach magnet arrays for MRI via optimization of the angular magnetization distribution. <i>Journal of Magnetic Resonance</i> , 2021, 324, 106923.	1.2	17
20	Characterization of displacement forces and image artifacts in the presence of passive medical implants in low-field (<math>\leq 100\text{ mT}</math>) permanent magnet-based MRI systems, and comparisons with clinical MRI systems. <i>Physica Medica</i> , 2021, 84, 116-124.	0.4	23
21	An Automatic Framework to Create Patient-specific Eye Models From 3D Magnetic Resonance Images for Treatment Selection in Patients With Uveal Melanoma. <i>Advances in Radiation Oncology</i> , 2021, 6, 100697.	0.6	7
22	Commentary: Smoking Is an Independent Risk Factor for 90-Day Readmission and Reoperation Following Posterior Cervical Decompression and Fusion. <i>Neurosurgery</i> , 2021, 89, E70-E71.	0.6	0
23	Parallel nuclear magnetic resonance spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	20
24	Very low field $^{19}\text{F}$ MRI of perfluoro-octylbromide: Minimizing chemical shift effects and signal loss due to scalar coupling. <i>Journal of Magnetic Resonance</i> , 2021, 325, 106946.	1.2	1
25	A Holographic Augmented Reality Interface for Visualizing of MRI Data and Planning of Neurosurgical Procedures. <i>Journal of Digital Imaging</i> , 2021, 34, 1014-1025.	1.6	12
26	Multiplexing experiments in NMR and multi-nuclear MRI. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 124-125, 1-56.	3.9	22
27	This house proposes that low field and high field MRI are by destiny worst enemies, and can never be the best of friends!. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 475-477.	1.1	1
28	Design, Characterisation and Performance of an Improved Portable and Sustainable Low-Field MRI System. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	13
29	Compartmental diffusion and microstructural properties of human brain gray and white matter studied with double diffusion encoding magnetic resonance spectroscopy of metabolites and water. <i>NeuroImage</i> , 2021, 234, 117981.	2.1	9
30	Shielded-coaxial-cable (SCC) coils as highly decoupled array elements for 7T MRI. , 2021, , .		0
31	Visualization of Metasurface Eigenmodes with Magnetic Resonance Imaging. <i>Physical Review Applied</i> , 2021, 16, .	1.5	8
32	Muscle architecture is associated with muscle fat replacement in <sc>Duchenne</sc> and <sc>Becker</sc> muscular dystrophies. <i>Muscle and Nerve</i> , 2021, 64, 576-584.	1.0	10
33	Quantification of different iron forms in the aceruloplasminemia brain to explore iron-related neurodegeneration. <i>NeuroImage: Clinical</i> , 2021, 30, 102657.	1.4	8
34	Stochastic neighbor embedding as a tool for visualizing the encoding capability of magnetic resonance fingerprinting dictionaries. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, , 1.	1.1	1
35	Report on the hot topic debate at ESMRMB 2021. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 775-778.	1.1	0
36	Cortical glutamate and gamma-aminobutyric acid over the course of a provoked migraine attack, a 7 Tesla magnetic resonance spectroscopy study. <i>NeuroImage: Clinical</i> , 2021, 32, 102889.	1.4	7

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37	Off-resonance saturation as an MRI method to quantify mineral-iron in the post-mortem brain. <i>Magnetic Resonance in Medicine</i> , 2021, , .	1.9	4
38	Assessing the utility of low resolution brain imaging: treatment of infant hydrocephalus. <i>NeuroImage: Clinical</i> , 2021, 32, 102896.	1.4	4
39	Shielded-coaxial-cable coils as receive and transceive array elements for 7T human MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1135-1146.	1.9	36
40	Adapted cabling of an EEG cap improves simultaneous measurement of EEG and fMRI at 7T. <i>Journal of Neuroscience Methods</i> , 2020, 331, 108518.	1.3	8
41	An artificial dielectric slab for ultra high-field MRI: Proof of concept. <i>Journal of Magnetic Resonance</i> , 2020, 320, 106835.	1.2	23
42	Effects of Alzheimer's disease and formalin fixation on the different mineralised-iron forms in the human brain. <i>Scientific Reports</i> , 2020, 10, 16440.	1.6	17
43	CORE-Deblur: Parallel MRI Reconstruction by Deblurring using compressed sensing. <i>Magnetic Resonance Imaging</i> , 2020, 72, 25-33.	1.0	3
44	A smart switching system to enable automatic tuning and detuning of metamaterial resonators in MRI scans. <i>Scientific Reports</i> , 2020, 10, 10042.	1.6	17
45	Multi-parametric MR in Becker muscular dystrophy patients. <i>NMR in Biomedicine</i> , 2020, 33, e4385.	1.6	14
46	Imaging of two samples with a single transmit/receive channel using coupled ceramic resonators for MR microscopy at 17.2 T. <i>NMR in Biomedicine</i> , 2020, 33, e4397.	1.6	8
47	Brain Bio-Energetic State Does Not Correlate to Muscle Mitochondrial Function in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2020, 9, 335-344.	0.9	1
48	Proton nuclear magnetic resonance J-spectroscopy of phantoms containing brain metabolites on a portable 0.05T MRI scanner. <i>Journal of Magnetic Resonance</i> , 2020, 320, 106834.	1.2	5
49	&lt;p&gt;The Economic Value of MR-Imaging for Uveal Melanoma&lt;/p&gt;. <i>Clinical Ophthalmology</i> , 2020, Volume 14, 1135-1143.	0.9	10
50	Assessing spatial resolution, acquisition time and signal-to-noise ratio for commercial microimaging systems at 14.1, 17.6 and 22.3T. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106770.	1.2	5
51	The effect of mirabegron on energy expenditure and brown adipose tissue in healthy lean South Asian and European men. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 2032-2044.	2.2	25
52	Water-fat separation in spiral magnetic resonance fingerprinting for high temporal resolution tissue relaxation time quantification in muscle. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 646-662.	1.9	21
53	A flexible five-channel shielded-coaxial-cable (SCC) transceive neck coil for high-resolution carotid imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1672-1677.	1.9	13
54	Design and characterization of receive-only surface coil arrays at 3T with integrated solid high permittivity materials. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106681.	1.2	6

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55	Gradient Coil Design and Realization for a Halbach-Based MRI System. IEEE Transactions on Magnetics, 2020, 56, 1-8.	1.2	17
56	Magnetic Resonance Microscopy at Cellular Resolution and Localised Spectroscopy of <i>Medicago truncatula</i> at 22.3 Tesla. Scientific Reports, 2020, 10, 971.	1.6	13
57	A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 6317-6329.	3.1	8
58	PolyRad " Protection Against Free Radical Damage. Scientific Reports, 2020, 10, 8335.	1.6	5
59	Accelerating compressed sensing in parallel imaging reconstructions using an efficient circulant preconditioner for cartesian trajectories. Magnetic Resonance in Medicine, 2019, 81, 670-685.	1.9	14
60	Measurement of T1 and T2 relaxation times of the pancreas at 7T using a multi-transmit system. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 703-708.	1.1	3
61	Developments in Electrical-Property Tomography Based on the Contrast-Source Inversion Method. Journal of Imaging, 2019, 5, 25.	1.7	7
62	A simulation study on the effect of optimized high permittivity materials on fetal imaging at 3T. Magnetic Resonance in Medicine, 2019, 82, 1822-1831.	1.9	7
63	Design and characterization of an eight-element passively fed meander-dipole array with improved specific absorption rate efficiency for 7 T body imaging. NMR in Biomedicine, 2019, 32, e4106.	1.6	24
64	The environment of $\alpha$ -bearing ultra-diffuse galaxies in the ALFALFA survey. Monthly Notices of the Royal Astronomical Society, 2019, 490, 566-577.	1.6	19
65	Deconstructing and reconstructing MRI hardware. Journal of Magnetic Resonance, 2019, 306, 134-138.	1.2	21
66	Three-dimensional MRI in a homogenous 27 cm diameter bore Halbach array magnet. Journal of Magnetic Resonance, 2019, 307, 106578.	1.2	70
67	Silent volumetric multi-contrast 7 Tesla MRI of ocular tumors using Zero Echo Time imaging. PLoS ONE, 2019, 14, e0222573.	1.1	8
68	A Platform Integrating Acquisition, Reconstruction, Visualization, and Manipulator Control Modules for MRI-Guided Interventions. Journal of Digital Imaging, 2019, 32, 420-432.	1.6	8
69	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. Advanced Materials, 2019, 31, e1900912.	11.1	17
70	High-permittivity pad design tool for 7T neuroimaging and 3T body imaging. Magnetic Resonance in Medicine, 2019, 81, 3370-3378.	1.9	24
71	Interactive and Immersive Image-Guided Control of Interventional Manipulators with a Prototype Holographic Interface. , 2019, , .		2
72	Design and characterization of passively-fed dipole arrays with improved specific absorption rate efficiency and reduced loading effects for ultra-high field MRI. , 2019, , .		0

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73	High permittivity ceramics improve the transmit field and receive efficiency of a commercial extremity coil at 1.5 Tesla. <i>Journal of Magnetic Resonance</i> , 2019, 299, 59-65.	1.2	31
74	Cartesian MR fingerprinting in the eye at 7T using compressed sensing and matrix completion-based reconstructions. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2551-2565.	1.9	22
75	Low-field MRI: An MR physics perspective. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1528-1542.	1.9	191
76	CORE-PI: Non-iterative convolution-based reconstruction for parallel MRI in the wavelet domain. <i>Medical Physics</i> , 2019, 46, 199-214.	1.6	3
77	Human Brown Adipose Tissue Estimated With Magnetic Resonance Imaging Undergoes Changes in Composition After Cold Exposure: An in vivo MRI Study in Healthy Volunteers. <i>Frontiers in Endocrinology</i> , 2019, 10, 898.	1.5	17
78	A simple head-sized phantom for realistic static and radiofrequency characterization at high fields. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1738-1745.	1.9	19
79	Metabolic imaging of fatty kidney in diabetes: validation and dietary intervention. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, 224-230.	0.4	21
80	Locally Enhanced Image Quality with Tunable Hybrid Metasurfaces. <i>Physical Review Applied</i> , 2018, 9, .	1.5	40
81	Quantitative comparison of different iron forms in the temporal cortex of Alzheimer patients and control subjects. <i>Scientific Reports</i> , 2018, 8, 6898.	1.6	40
82	Innovative Magnetic Resonance Imaging Markers of Hereditary Cerebral Amyloid Angiopathy at 7 Tesla. <i>Stroke</i> , 2018, 49, 1518-1520.	1.0	12
83	A new quadrature annular resonator for 3T MRI based on artificial-dielectrics. <i>Journal of Magnetic Resonance</i> , 2018, 291, 47-52.	1.2	16
84	High-Permittivity Pad Design for Dielectric Shimming in Magnetic Resonance Imaging Using Projection-Based Model Reduction and a Nonlinear Optimization Scheme. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1035-1044.	5.4	9
85	Improved olefinic fat suppression in skeletal muscle DTI using a magnitude-based dixon method. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 152-159.	1.9	27
86	Improved image quality and reduced power deposition in the spine at 3 T using extremely high permittivity materials. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1192-1199.	1.9	21
87	Manipulator-driven selection of semi-active MR-visible markers. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018, 14, e1846.	1.2	2
88	Experimental investigation of a metasurface resonator for in vivo imaging at 1.5T. <i>Journal of Magnetic Resonance</i> , 2018, 286, 78-81.	1.2	32
89	Modular transmit/receive arrays using very-high permittivity dielectric resonator antennas. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1781-1788.	1.9	12
90	3-D Contrast Source Inversion-Electrical Properties Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2080-2089.	5.4	26

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91	Improvements in High Resolution Laryngeal Magnetic Resonance Imaging for Preoperative Transoral Laser Microsurgery and Radiotherapy Considerations in Early Lesions. <i>Frontiers in Oncology</i> , 2018, 8, 216.	1.3	20
92	Studying neurons and glia non-invasively via anomalous subdiffusion of intracellular metabolites. <i>Brain Structure and Function</i> , 2018, 223, 3841-3854.	1.2	17
93	Accurate Pad $\hat{\circ}$ Global Approximations for the Mittag-Leffler Function, Its Inverse, and Its Partial Derivatives to Efficiently Compute Convergent Power Series. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 347-362.	0.9	16
94	Quadrature operation of segmented dielectric resonators facilitated with metallic connectors. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2431-2437.	1.9	7
95	Using spectral and cumulative spectral entropy to classify anomalous diffusion in Sephadex $\hat{a}$ , $\text{c}$ gels. <i>Computers and Mathematics With Applications</i> , 2017, 73, 765-774.	1.4	21
96	Cortical glutamate in migraine. <i>Brain</i> , 2017, 140, 1859-1871.	3.7	81
97	Proton Magnetic Resonance Spectroscopy Indicates Preserved Cerebral Biochemical Composition in Duchenne Muscular Dystrophy Patients. <i>Journal of Neuromuscular Diseases</i> , 2017, 4, 53-58.	1.1	4
98	Flexible and compact hybrid metasurfaces for enhanced ultra high field in vivo magnetic resonance imaging. <i>Scientific Reports</i> , 2017, 7, 1678.	1.6	81
99	Elevated phosphodiester and $\langle i \rangle T \langle /i \rangle \langle sub \rangle 2 \langle /sub \rangle$ levels can be measured in the absence of fat infiltration in Duchenne muscular dystrophy patients. <i>NMR in Biomedicine</i> , 2017, 30, e3667.	1.6	45
100	An Efficient Methodology for the Analysis of Dielectric Shimming Materials in Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 666-673.	5.4	16
101	Design of a dielectric resonator receive array at 7 Tesla using detunable ceramic resonators. <i>Journal of Magnetic Resonance</i> , 2017, 284, 94-98.	1.2	8
102	Validation of a pharmacological model for mitochondrial dysfunction in healthy subjects using simvastatin: A randomized placebo-controlled proof-of-pharmacology study. <i>European Journal of Pharmacology</i> , 2017, 815, 290-297.	1.7	13
103	A mechanically tunable and efficient ceramic probe for MR-microscopy at 17 Tesla. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
104	Tunable hybrid metasurfaces for MRI applications. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
105	Metamaterial Combining Electric- and Magnetic-Dipole-Based Configurations for Unique Dual-Band Signal Enhancement in Ultrahigh-Field Magnetic Resonance Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34618-34624.	4.0	36
106	Human-brain ferritin studied by muon spin rotation: a pilot study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 415801.	0.7	13
107	Decreased cerebral perfusion in Duchenne muscular dystrophy patients. <i>Neuromuscular Disorders</i> , 2017, 27, 29-37.	0.3	28
108	Automated eye blink detection and correction method for clinical MR eye imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 165-171.	1.9	9



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109	A comparison of navigators, snapshot field monitoring, and probe-based field model training for correcting B <sub>0</sub> -induced artifacts in $\epsilon$ -weighted images at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1373-1382.		8
110	Holographic Interface for three-dimensional Visualization of MRI on HoloLens: A Prototype Platform for MRI Guided Neurosurgeries. , 2017, , .		13
111	Tunable hybrid metasurfaces for image quality enhancement. , 2017, , .		0
112	Spatially localized phosphorous metabolism of skeletal muscle in Duchenne muscular dystrophy patients: 24-month follow-up. <i>PLoS ONE</i> , 2017, 12, e0182086.	1.1	25
113	Improved Cardiac Proton Magnetic Resonance Spectroscopy at 3 T Using High Permittivity Pads. <i>Investigative Radiology</i> , 2016, 51, 134-138.	3.5	13
114	Fast cerebral flow territory mapping using vessel encoded dynamic arterial spin labeling (VE-DASL). <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2041-2049.	1.9	4
115	Proton observed phosphorus editing (POPE) for <i>in vivo</i> detection of phospholipid metabolites. <i>NMR in Biomedicine</i> , 2016, 29, 1222-1230.	1.6	10
116	Measuring motion-induced B <sub>0</sub> -fluctuations in the brain using field probes. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2020-2030.	1.9	15
117	Diffusion-prepared neurography of the brachial plexus with a large field-of-view at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 644-654.	1.9	14
118	A theoretical approach based on electromagnetic scattering for analysing dielectric shimming in high-field MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2185-2194.	1.9	23
119	The technological future of 7T MRI hardware. <i>NMR in Biomedicine</i> , 2016, 29, 1305-1315.	1.6	15
120	A novel approach to quantify different iron forms in ex-vivo human brain tissue. <i>Scientific Reports</i> , 2016, 6, 38916.	1.6	33
121	Clinical evaluation of ultra-high-field MRI for three-dimensional visualisation of tumour size in uveal melanoma patients, with direct relevance to treatment planning. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 571-577.	1.1	49
122	Diffusion-weighted-preparation (D-prep) MRI as a future extension of SPECT/CT based surgical planning for sentinel node procedures in the head and neck area?. <i>Oral Oncology</i> , 2016, 60, 48-54.	0.8	11
123	Practical improvements in the design of high permittivity pads for dielectric shimming in neuroimaging at 7 T. <i>Journal of Magnetic Resonance</i> , 2016, 270, 108-114.	1.2	35
124	Early Magnetic Resonance Imaging and Cognitive Markers of Hereditary Cerebral Amyloid Angiopathy. <i>Stroke</i> , 2016, 47, 3041-3044.	1.0	32
125	Differentiating between axonal damage and demyelination in healthy aging by combining diffusion-tensor imaging and diffusion-weighted spectroscopy in the human corpus callosum at 7T. <i>Neurobiology of Aging</i> , 2016, 47, 210-217.	1.5	23
126	Measurement of arteriolar blood volume in brain tumors using MRI without exogenous contrast agent administration at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 1244-1255.	1.9	13



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127	Parameter optimization for reproducible cardiac <sup>1</sup> H-MR spectroscopy at 3 Tesla. Journal of Magnetic Resonance Imaging, 2016, 44, 1151-1158.	1.9	21
128	Passive radiofrequency shimming in the thighs at 3 Tesla using high permittivity materials and body coil receive uniformity correction. Magnetic Resonance in Medicine, 2016, 76, 1951-1956.	1.9	13
129	Cortical phase changes measured using <sup>7</sup> T MRI in subjects with subjective cognitive impairment, and their association with cognitive function. NMR in Biomedicine, 2016, 29, 1289-1294.	1.6	12
130	A new approach for electrical properties estimation using a global integral equation and improvements using high permittivity materials. Journal of Magnetic Resonance, 2016, 262, 8-14.	1.2	23
131	Glial and axonal changes in systemic lupus erythematosus measured with diffusion of intracellular metabolites. Brain, 2016, 139, 1447-1457.	3.7	54
132	Characterization of an HEM-Mode Dielectric Resonator for 7-T Human Phosphorous Magnetic Resonance Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 2390-2395.	2.5	6
133	Improvements in RF Shimming in High Field MRI Using High Permittivity Materials With Low Order Pre-Fractal Geometries. IEEE Transactions on Medical Imaging, 2016, 35, 1837-1844.	5.4	11
134	Clinical applications of dual-channel transmit MRI: A review. Journal of Magnetic Resonance Imaging, 2015, 42, 855-869.	1.9	32
135	Reproducibility and optimization of <i>in vivo</i> human diffusion-weighted MRS of the corpus callosum at 3T and 7T. NMR in Biomedicine, 2015, 28, 976-987.	1.6	18
136	The effect of high-permittivity pads on specific absorption rate in radiofrequency-shimmed dual-transmit cardiovascular magnetic resonance at 3T. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 82.	1.6	18
137	Time-efficient interleaved human <sup>23</sup> Na and <sup>1</sup> H data acquisition at 7 T. NMR in Biomedicine, 2015, 28, 1228-1235.	1.6	24
138	Evaluation of skeletal muscle DTI in patients with duchenne muscular dystrophy. NMR in Biomedicine, 2015, 28, 1589-1597.	1.6	93
139	In Vivo Inner Ear Imaging at 7 T. Otology and Neurotology, 2015, 36, 1458-1459.	0.7	3
140	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185.	7.2	258
141	Parsimonious continuous time random walk models and kurtosis for diffusion in magnetic resonance of biological tissue. Frontiers in Physics, 2015, 3, .	1.0	21
142	SP113IMAGING FATTY KIDNEY USING PROTON MR SPECTROSCOPY: VALIDATION BY PORCINE KIDNEY BIOPSIES. Nephrology Dialysis Transplantation, 2015, 30, iii414-iii414.	0.4	1
143	An automated tool for cortical feature analysis: Application to differences on <sup>7</sup> T <sup>2</sup> -weighted images between young and older healthy subjects. Magnetic Resonance in Medicine, 2015, 74, 240-248.	1.9	6
144	Automated Retinal Topographic Maps Measured With Magnetic Resonance Imaging. Investigative Ophthalmology and Visual Science, 2015, 56, 1033-1039.	3.3	31

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145	Visualization of Human Inner Ear Anatomy with High-Resolution MR Imaging at 7T: Initial Clinical Assessment. <i>American Journal of Neuroradiology</i> , 2015, 36, 378-383.	1.2	27
146	Volumetric brain analysis in neurosurgery: Part 3. Volumetric CT analysis as a predictor of seizure outcome following temporal lobectomy. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 15, 133-143.	0.8	7
147	Volumetric brain analysis in neurosurgery: Part 1. Particle filter segmentation of brain and cerebrospinal fluid growth dynamics from MRI and CT images. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 15, 113-124.	0.8	32
148	Diffusion-weighted chemical shift imaging of human brain metabolites at 7T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2053-2061.	1.9	20
149	Evaluation of plasma-based transmit coils for magnetic resonance. <i>Journal of Magnetic Resonance</i> , 2015, 261, 49-53.	1.2	1
150	MR of Multi-Organ Involvement in the Metabolic Syndrome. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015, 23, 41-58.	0.6	17
151	7T T2-weighted magnetic resonance imaging reveals cortical phase differences between early- and late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, 20-26.	1.5	43
152	Biochemical changes in the brain of hemiplegic migraine patients measured with 7 tesla <sup>1</sup> H-MRS. <i>Cephalalgia</i> , 2014, 34, 959-967.	1.8	24
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