

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 | Cardiovascular fitness, cortical plasticity, and aging. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3316-3321. | 3.3 | 1,378 |
| 2 | Aerobic Fitness Reduces Brain Tissue Loss in Aging Humans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2003, 58, M176-M180. | 1.7 | 777 |
| 3 | The relative involvement of anterior cingulate and prefrontal cortex in attentional control depends on nature of conflict. Cognitive Brain Research, 2001, 12, 467-473. | 3.3 | 469 |
| 4 | High-Resolution Microcoil 1H-NMR for Mass-Limited, Nanoliter-Volume Samples. Science, 1995, 270, 1967-1970. | 6.0 | 467 |
| 5 | Attentional Control in the Aging Brain: Insights from an fMRI Study of the Stroop Task. Brain and Cognition, 2002, 49, 277-296. | 0.8 | 458 |
| 6 | fMRI Studies of Stroop Tasks Reveal Unique Roles of Anterior and Posterior Brain Systems in Attentional Selection. Journal of Cognitive Neuroscience, 2000, 12, 988-1000. | 1.1 | 367 |
| 7 | Investigation of human brain hemodynamics by simultaneous near-infrared spectroscopy and functional magnetic resonance imaging. Medical Physics, 2001, 28, 521-527. | 1.6 | 337 |
| 8 | Prefrontal regions play a predominant role in imposing an attentional set: evidence from fMRI. Cognitive Brain Research, 2000, 10, 1-9. | 3.3 | 273 |
| 9 | Paying attention to emotion: An fMRI investigation of cognitive and emotional Stroop tasks. Cognitive, Affective and Behavioral Neuroscience, 2003, 3, 81-96. | 1.0 | 264 |
| 10 | Differential engagement of anterior cingulate cortex subdivisions for cognitive and emotional function. Psychophysiology, 2007, 44, 343-351. | 1.2 | 261 |
| 11 | Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185. | 7.2 | 258 |
| 12 | High-Resolution NMR Spectroscopy of Sample Volumes from 1 nL to 10 μ L. Chemical Reviews, 1999, 99, 3133-3152. | 23.0 | 239 |
| 13 | General and task-specific frontal lobe recruitment in older adults during executive processes: A fMRI investigation of task-switching. NeuroReport, 2001, 12, 2065-2071. | 0.6 | 226 |
| 14 | Radiofrequency microcoils in magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 1997, 31, 1-42. | 3.9 | 199 |
| 15 | Specificity of regional brain activity in anxiety types during emotion processing. Psychophysiology, 2007, 44, 352-363. | 1.2 | 194 |
| 16 | Low-field MRI: An MR physics perspective. Journal of Magnetic Resonance Imaging, 2019, 49, 1528-1542. | 1.9 | 191 |
| 17 | Quantitative assessment of the effects of high-permittivity pads in 7 Tesla MRI of the brain. Magnetic Resonance in Medicine, 2012, 67, 1285-1293. | 1.9 | 185 |
| 18 | Emotion-Modulated Performance and Activity in Left Dorsolateral Prefrontal Cortex.. Emotion, 2005, 5, 200-207. | 1.5 | 159 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | In vivo blood T_1 measurements at 1.5 T, 3 T, and 7 T. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1082-1086. | 1.9 | 150 |
| 20 | ^1H -NMR Spectroscopy on the Nanoliter Scale for Static and Online Measurements. <i>Analytical Chemistry</i> , 1994, 66, 3849-3857. | 3.2 | 145 |
| 21 | Specific MR imaging of human lymphocytes by monoclonal antibody-guided dextran-magnetite particles. <i>Magnetic Resonance in Medicine</i> , 1992, 25, 148-157. | 1.9 | 142 |
| 22 | Nanoliter Volume Sample cells for ^1H NMR: Application to Online Detection in Capillary Electrophoresis. <i>Journal of the American Chemical Society</i> , 1994, 116, 7929-7930. | 6.6 | 136 |
| 23 | Reconstruction and Morphometric Analysis of the Nasal Airway of the Dog (<i>Canis familiaris</i>) and Implications Regarding Olfactory Airflow. <i>Anatomical Record</i> , 2007, 290, 1325-1340. | 0.8 | 136 |
| 24 | Quantitative MRI and strength measurements in the assessment of muscle quality in Duchenne muscular dystrophy. <i>Neuromuscular Disorders</i> , 2014, 24, 409-416. | 0.3 | 134 |
| 25 | Localization of asymmetric brain function in emotion and depression. <i>Psychophysiology</i> , 2010, 47, 442-454. | 1.2 | 131 |
| 26 | The roles of changes in deoxyhemoglobin concentration and regional cerebral blood volume in the fMRI BOLD signal. <i>NeuroImage</i> , 2003, 19, 1521-1531. | 2.1 | 128 |
| 27 | Simulations of high permittivity materials for 7 T neuroimaging and evaluation of a new barium titanate-based dielectric. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 912-918. | 1.9 | 120 |
| 28 | In vivo detection limits of magnetically labeled embryonic stem cells in the rat brain using high-field (17.6 T) magnetic resonance imaging. <i>NeuroImage</i> , 2005, 24, 635-645. | 2.1 | 112 |
| 29 | Nanoliter-Volume ^1H NMR Detection Using Periodic Stopped-Flow Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1999, 71, 3070-3076. | 3.2 | 111 |
| 30 | Comparison of Dixon and T_1 -weighted MR methods to assess the degree of fat infiltration in Duchenne muscular dystrophy patients. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 619-624. | 1.9 | 111 |
| 31 | Gradients of lipid storage, photosynthesis and plastid differentiation in developing soybean seeds. <i>New Phytologist</i> , 2005, 167, 761-776. | 3.5 | 109 |
| 32 | A spatial and temporal comparison of hemodynamic signals measured using optical and functional magnetic resonance imaging during activation in the human primary visual cortex. <i>NeuroImage</i> , 2007, 34, 1136-1148. | 2.1 | 109 |
| 33 | Chapter 29 Attentional selection and the processing of task-irrelevant information: insights from fMRI examinations of the Stroop task. <i>Progress in Brain Research</i> , 2001, 134, 459-470. | 0.9 | 108 |
| 34 | Selective sparing of brain tissue in postmenopausal women receiving hormone replacement therapy. <i>Neurobiology of Aging</i> , 2005, 26, 1205-1213. | 1.5 | 102 |
| 35 | Enhancing Brain and Cognitive Function of Older Adults Through Fitness Training. <i>Journal of Molecular Neuroscience</i> , 2003, 20, 213-222. | 1.1 | 97 |
| 36 | Evaluation of skeletal muscle DTI in patients with Duchenne muscular dystrophy. <i>NMR in Biomedicine</i> , 2015, 28, 1589-1597. | 1.6 | 93 |

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|----|---|-----|-----------|
| 37 | NMR spectroscopy of single neurons. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 19-22. | 1.9 | 91 |
| 38 | Monitoring Temperature Changes in Capillary Electrophoresis with Nanoliter-Volume NMR Thermometry. <i>Analytical Chemistry</i> , 2000, 72, 4991-4998. | 3.2 | 91 |
| 39 | Neural Mechanisms of Affective Interference in Schizotypy.. <i>Journal of Abnormal Psychology</i> , 2005, 114, 16-27. | 2.0 | 91 |
| 40 | Reduced cerebral gray matter and altered white matter in boys with <scp>D</scp>uchenne muscular dystrophy. <i>Annals of Neurology</i> , 2014, 76, 403-411. | 2.8 | 90 |
| 41 | Microstructural organization of axons in the human corpus callosum quantified by diffusion-weighted magnetic resonance spectroscopy of N-acetylaspartate and post-mortem histology. <i>Brain Structure and Function</i> , 2014, 219, 1773-1785. | 1.2 | 84 |
| 42 | Online NMR detection of amino acids and peptides in microbore LC. <i>Analytical Chemistry</i> , 1995, 67, 3101-3107. | 3.2 | 82 |
| 43 | Sample Concentration and Separation for Nanoliter-Volume NMR Spectroscopy Using Capillary Isotachopheresis. <i>Journal of the American Chemical Society</i> , 2001, 123, 3159-3160. | 6.6 | 82 |
| 44 | Cortical glutamate in migraine. <i>Brain</i> , 2017, 140, 1859-1871. | 3.7 | 81 |
| 45 | 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 |
| 46 | 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 |
| 47 | Measurement of brain activity by near-infrared light. <i>Journal of Biomedical Optics</i> , 2005, 10, 011008. | 1.4 | 80 |
| 48 | Study of local cerebral hemodynamics by frequency-domain near-infrared spectroscopy and correlation with simultaneously acquired functional magnetic resonance imaging. <i>Optics Express</i> , 2001, 9, 417. | 1.7 | 77 |
| 49 | A Magnetic Resonance Imaging Study of Dense Nonaqueous Phase Liquid Dissolution from Angular Porous Media. <i>Environmental Science & Technology</i> , 2002, 36, 3310-3317. | 4.6 | 76 |
| 50 | Origin and reduction of motion and f0 artifacts in high resolution T2*-weighted magnetic resonance imaging: Application in Alzheimer's disease patients. <i>NeuroImage</i> , 2010, 51, 1082-1088. | 2.1 | 76 |
| 51 | Nanoliter volume, high-resolution NMR microspectroscopy using a 60- μ m planar microcoil. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 1122-1127. | 2.5 | 73 |
| 52 | Multiple Solenoidal Microcoil Probes for High-Sensitivity, High-Throughput Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 4815-4820. | 3.2 | 73 |
| 53 | Exploratory 7-Tesla magnetic resonance spectroscopy in Huntington's disease provides in vivo evidence for impaired energy metabolism. <i>Journal of Neurology</i> , 2011, 258, 2230-2239. | 1.8 | 73 |
| 54 | Union of capillary high-performance liquid chromatography and microcoil nuclear magnetic resonance spectroscopy applied to the separation and identification of terpenoids. <i>Journal of Chromatography A</i> , 2001, 922, 139-149. | 1.8 | 72 |

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|----|--|-----|-----------|
| 55 | Increased Number of Microinfarcts in Alzheimer Disease at 7-T MR Imaging. <i>Radiology</i> , 2014, 270, 205-211. | 3.6 | 72 |
| 56 | Design of a capacitively decoupled transmit/receive NMR phased array for high field microscopy at 14.1T. <i>Journal of Magnetic Resonance</i> , 2004, 170, 149-155. | 1.2 | 70 |
| 57 | Three-dimensional MRI in a homogenous 27 cm diameter bore Halbach array magnet. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106578. | 1.2 | 70 |
| 58 | Magnetic resonance imaging of biological cells. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2003, 42, 69-93. | 3.9 | 68 |
| 59 | Applications of reduced-encoding MR imaging with generalized-series reconstruction (RIGR). <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 925-928. | 1.9 | 67 |
| 60 | High permittivity pads reduce specific absorption rate, improve B ₁ homogeneity, and increase contrast-to-noise ratio for functional cardiac MRI at 3 T. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1632-1640. | 1.9 | 67 |
| 61 | Experimental and numerical assessment of MRI-induced temperature change and SAR distributions in phantoms and in vivo. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 218-223. | 1.9 | 64 |
| 62 | Behavioral conflict, anterior cingulate cortex, and experiment duration: Implications of diverging data. <i>Human Brain Mapping</i> , 2004, 21, 98-107. | 1.9 | 62 |
| 63 | Quantitative imaging of oil storage in developing crop seeds. <i>Plant Biotechnology Journal</i> , 2008, 6, 31-45. | 4.1 | 60 |
| 64 | Elevated brain iron is independent from atrophy in Huntington's Disease. <i>NeuroImage</i> , 2012, 61, 558-564. | 2.1 | 60 |
| 65 | A multiple echo pulse sequence for diffusion tensor imaging and its application in excised rat spinal cords. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 868-873. | 1.9 | 58 |
| 66 | A Microcoil NMR Probe for Coupling Microscale HPLC with On-Line NMR Spectroscopy. <i>Analytical Chemistry</i> , 1999, 71, 5335-5339. | 3.2 | 57 |
| 67 | An experimental overview of the use of nuclear magnetic resonance imaging to follow solvent ingress into polymers. <i>Polymer</i> , 1991, 32, 2926-2938. | 1.8 | 56 |
| 68 | NMR Detection with Multiple Solenoidal Microcoils for Continuous-Flow Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 5550-5555. | 3.2 | 55 |
| 69 | Radiofrequency microcoils for magnetic resonance imaging and spectroscopy. <i>Journal of Magnetic Resonance</i> , 2013, 229, 55-66. | 1.2 | 55 |
| 70 | Measuring Reaction Kinetics by Using Multiple Microcoil NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4669-4672. | 7.2 | 54 |
| 71 | Glia and axonal changes in systemic lupus erythematosus measured with diffusion of intracellular metabolites. <i>Brain</i> , 2016, 139, 1447-1457. | 3.7 | 54 |
| 72 | Sonochemically produced fluorocarbon microspheres: A new class of magnetic resonance imaging agent. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 675-683. | 1.9 | 53 |

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|----|--|-----|-----------|
| 73 | Reliability and differentiation of pelvic floor muscle electromyography measurements in healthy volunteers using a new device: The multiple array probe leiden (MAPLe). <i>Neurourology and Urodynamics</i> , 2013, 32, 341-348. | 0.8 | 53 |
| 74 | Improved signal to noise in proton spectroscopy of the human calf muscle at 7 T using localized B_1 calibration. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 207-211. | 1.9 | 52 |
| 75 | Volumetric B_1 Mapping of the Brain at 7T using DREAM. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 246-256. | 1.9 | 52 |
| 76 | Improvements in high-field localized MRS of the medial temporal lobe in humans using new deformable high-dielectric materials. <i>NMR in Biomedicine</i> , 2011, 24, 873-879. | 1.6 | 50 |
| 77 | Design of Solenoidal Microcoils for High-Resolution ^{13}C NMR Spectroscopy. <i>Analytical Chemistry</i> , 1998, 70, 2454-2458. | 3.2 | 49 |
| 78 | Characterization of NAPL Source Zone Architecture and Dissolution Kinetics in Heterogeneous Porous Media Using Magnetic Resonance Imaging. <i>Environmental Science & Technology</i> , 2007, 41, 3672-3678. | 4.6 | 49 |
| 79 | Increasing the Sensitivity of Magnetic Resonance Spectroscopy and Imaging. <i>Analytical Chemistry</i> , 2012, 84, 9-16. | 3.2 | 49 |
| 80 | In vivo determination of human breast fat composition by 1H magnetic resonance spectroscopy at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 20-26. | 1.9 | 49 |
| 81 | 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 |
| 82 | Optimization of electromagnetic phased-arrays for hyperthermia via magnetic resonance temperature estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1229-1241. | 2.5 | 48 |
| 83 | A multiscale lattice Boltzmann model of macro- to micro-scale transport, with applications to gut function. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2863-2880. | 1.6 | 48 |
| 84 | High-resolution MRI of uveal melanoma using a microcoil phased array at 7 T. <i>NMR in Biomedicine</i> , 2013, 26, 1864-1869. | 1.6 | 48 |
| 85 | High Permittivity Dielectric Pads Improve High Spatial Resolution Magnetic Resonance Imaging of the Inner Ear at 7 T. <i>Investigative Radiology</i> , 2014, 49, 271-277. | 3.5 | 48 |
| 86 | Quantitative analysis of peristaltic and segmental motion in vivo in the rat small intestine using dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 116-126. | 1.9 | 47 |
| 87 | Parallel transmit and receive technology in high-field magnetic resonance neuroimaging. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 2-13. | 2.7 | 47 |
| 88 | Exercise and Type 2 Diabetes Mellitus: Changes in Tissue-specific Fat Distribution and Cardiac Function. <i>Radiology</i> , 2013, 269, 434-442. | 3.6 | 47 |
| 89 | <i>In vivo</i> ^{31}P MRS detection of an alkaline inorganic phosphate pool with short T1 in human resting skeletal muscle. <i>NMR in Biomedicine</i> , 2010, 23, 995-1000. | 1.6 | 46 |
| 90 | Cortical phase changes in Alzheimer's disease at 7T MRI: A novel imaging marker. <i>Alzheimer's and Dementia</i> , 2014, 10, e19-26. | 0.4 | 46 |

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|-----|--|-----|-----------|
| 91 | Initial results on in vivo human coronary MR angiography at 7 T. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1379-1384. | 1.9 | 45 |
| 92 | Differences in apparent diffusion coefficients of brain metabolites between grey and white matter in the human brain measured at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1203-1209. | 1.9 | 45 |
| 93 | Elevated phosphodiester and Ca^{2+} 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 |
| 94 | Increasing signal homogeneity and image quality in abdominal imaging at 3 T with very high permittivity materials. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1317-1324. | 1.9 | 44 |
| 95 | Subject tolerance of 7 T MRI examinations. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 722-725. | 1.9 | 44 |
| 96 | 7T MRI reveals diffuse iron deposition in putamen and caudate nucleus in CADASIL. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 1180-1185. | 0.9 | 43 |
| 97 | 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 |
| 98 | Safety of Ultra-High Field MRI: What are the Specific Risks?. <i>Current Radiology Reports</i> , 2014, 2, 1. | 0.4 | 41 |
| 99 | Reversible and irreversible effects of chemical fixation on the NMR properties of single cells. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 927-931. | 1.9 | 40 |
| 100 | Hyphenation of Gas Chromatography to Microcoil ^1H Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 2708-2713. | 3.2 | 40 |
| 101 | Retrospective image correction in the presence of nonlinear temporal magnetic field changes using multichannel navigator echoes. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1836-1845. | 1.9 | 40 |
| 102 | Locally Enhanced Image Quality with Tunable Hybrid Metasurfaces. <i>Physical Review Applied</i> , 2018, 9, . | 1.5 | 40 |
| 103 | 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 |
| 104 | IL-12 Treatment of Endogenously Arising Murine Brain Tumors. <i>Journal of Immunology</i> , 2000, 165, 7293-7299. | 0.4 | 39 |
| 105 | Optimization of the signal-to-noise ratio of frequency-domain instrumentation for near-infrared spectro-imaging of the human brain. <i>Optics Express</i> , 2003, 11, 2717. | 1.7 | 39 |
| 106 | Simultaneous integrated diffuse optical tomography and functional magnetic resonance imaging of the human brain. <i>Optics Express</i> , 2005, 13, 5513. | 1.7 | 39 |
| 107 | Unifying linear prior-information-driven methods for accelerated image acquisition. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 652-660. | 1.9 | 38 |
| 108 | Effects of aerobic fitness training on human cortical function. <i>Journal of Molecular Neuroscience</i> , 2002, 19, 227-231. | 1.1 | 38 |

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|-----|--|-----|-----------|
| 109 | Assessing the MR compatibility of dental retainer wires at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1191-1198. | 1.9 | 38 |
| 110 | An eight-channel transmit/receive array of TE01 mode high permittivity ceramic resonators for human imaging at 7T. <i>Journal of Magnetic Resonance</i> , 2014, 243, 122-129. | 1.2 | 37 |
| 111 | High-field MRI of single histological slices using an inductively coupled, self-resonant microcoil: application to <i>ex vivo</i> samples of patients with Alzheimer's disease. <i>NMR in Biomedicine</i> , 2011, 24, 351-357. | 1.6 | 36 |
| 112 | Metamaterial Combining Electric- and Magnetic-Dipole-Based Configurations for Unique Dual-Band Signal Enhancement in Ultrahigh-Field Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34618-34624. | 4.0 | 36 |
| 113 | Shielded-coaxial cable coils as receive and transmit array elements for 7T human MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1135-1146. | 1.9 | 36 |
| 114 | Towards a Single-Sequence Neurologic Magnetic Resonance Imaging Examination: Multiple-Contrast Images From an IR TrueFISP Experiment. <i>Investigative Radiology</i> , 2004, 39, 767-774. | 3.5 | 35 |
| 115 | MRI and localized proton spectroscopy in human leg muscle at 7 tesla using longitudinal traveling waves. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 297-302. | 1.9 | 35 |
| 116 | Right Coronary MR Angiography at 7 T: A Direct Quantitative and Qualitative Comparison with 3 T in Young Healthy Volunteers. <i>Radiology</i> , 2010, 257, 254-259. | 3.6 | 35 |
| 117 | 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 |
| 118 | Application of reduced-encoding imaging with generalized-series reconstruction (RIGR) in dynamic MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 783-797. | 1.9 | 34 |
| 119 | Design of small volume HX and triple-resonance probes for improved limits of detection in protein NMR experiments. <i>Journal of Magnetic Resonance</i> , 2003, 164, 128-135. | 1.2 | 33 |
| 120 | Quantitative assessment of left ventricular function in humans at 7 T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1471-1477. | 1.9 | 33 |
| 121 | A radiofrequency coil configuration for imaging the human vertebral column at 7T. <i>Journal of Magnetic Resonance</i> , 2011, 208, 291-297. | 1.2 | 33 |
| 122 | Axonal and glial microstructural information obtained with diffusion-weighted magnetic resonance spectroscopy at 7T. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 13. | 1.0 | 33 |
| 123 | Muscle MRS detects elevated PDE/ATP ratios prior to fatty infiltration in Becker muscular dystrophy. <i>NMR in Biomedicine</i> , 2014, 27, 1371-1377. | 1.6 | 33 |
| 124 | A novel approach to quantify different iron forms in ex-vivo human brain tissue. <i>Scientific Reports</i> , 2016, 6, 38916. | 1.6 | 33 |
| 125 | Parallel imaging for NMR microscopy at 14.1 Tesla. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 9-13. | 1.9 | 32 |
| 126 | Functional diffusion-weighted magnetic resonance spectroscopy of the human primary visual cortex at 7 T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 303-309. | 1.9 | 32 |

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|-----|--|-----|-----------|
| 127 | Clinical applications of dual-channel transmit MRI: A review. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 855-869. | 1.9 | 32 |
| 128 | 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 |
| 129 | Early Magnetic Resonance Imaging and Cognitive Markers of Hereditary Cerebral Amyloid Angiopathy. <i>Stroke</i> , 2016, 47, 3041-3044. | 1.0 | 32 |
| 130 | Experimental investigation of a metasurface resonator for in vivo imaging at 1.5 T. <i>Journal of Magnetic Resonance</i> , 2018, 286, 78-81. | 1.2 | 32 |
| 131 | Limited-Sample NMR Using Solenoidal Microcoils, Perfluorocarbon Plugs, and Capillary Spinning. <i>Analytical Chemistry</i> , 1998, 70, 5326-5331. | 3.2 | 31 |
| 132 | On-Line Temperature Monitoring in a Capillary Electrochromatography Frit Using Microcoil NMR. <i>Analytical Chemistry</i> , 2002, 74, 4583-4587. | 3.2 | 31 |
| 133 | Automated Retinal Topographic Maps Measured With Magnetic Resonance Imaging. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1033-1039. | 3.3 | 31 |
| 134 | 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 |
| 135 | Lenticulostriate Arterial Lumina Are Normal in Cerebral Autosomal-Dominant Arteriopathy With Subcortical Infarcts and Leukoencephalopathy. <i>Stroke</i> , 2010, 41, 2812-2816. | 1.0 | 30 |
| 136 | Arterial spin labeling at ultra-high field: All that glitters is not gold. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 62-70. | 2.7 | 30 |
| 137 | Design and evaluation of a detunable water-based quadrature HEM ₁₁ mode dielectric resonator as a new type of volume coil for high field MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1325-1331. | 1.9 | 30 |
| 138 | Fractional order analysis of Sephadex gel structures: NMR measurements reflecting anomalous diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 4581-4587. | 1.7 | 29 |
| 139 | Longitudinal Metabolite Changes in Huntington's Disease During Disease Onset. <i>Journal of Huntington's Disease</i> , 2014, 3, 377-386. | 0.9 | 29 |
| 140 | New criterion to aid manual and automatic selection of the arterial input function in dynamic susceptibility contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 448-456. | 1.9 | 28 |
| 141 | Quantifying the effects of inactin vs Isoflurane anesthesia on gastrointestinal motility in rats using dynamic magnetic resonance imaging and spatio-temporal maps. <i>Neurogastroenterology and Motility</i> , 2014, 26, 1477-1486. | 1.6 | 28 |
| 142 | Decreased cerebral perfusion in Duchenne muscular dystrophy patients. <i>Neuromuscular Disorders</i> , 2017, 27, 29-37. | 0.3 | 28 |
| 143 | Miniature magnetic resonance machines. <i>IEEE Spectrum</i> , 1997, 34, 51-61. | 0.5 | 27 |
| 144 | Rapid Two-Dimensional Inverse Detected Heteronuclear Correlation Experiments with <100 nmol Samples with Solenoidal Microcoil NMR Probes. <i>Journal of the American Chemical Society</i> , 1999, 121, 2333-2334. | 6.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Hyphenation of capillary high-performance liquid chromatography to microcoil magnetic resonance spectroscopyâ€”determination of various carotenoids in a small-sized spinach sample. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 910-917. | 1.4 | 27 |
| 146 | Accelerationâ€”selective arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 191-199. | 1.9 | 27 |
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