Thoralf Niendorf

List of Publications by Year
in descending order

240 papers	9,252 citations	41258 49 h-index	51492 86 g-index
252 all docs	252 docs citations	252 times ranked	8307 citing authors

#	ARTICLE	IF	CITATIONS
1	B₁inhomogeneity correction of RARE MRI at low SNR: Quantitative in vivo¹⁹F MRI of mouse neuroinflammation with a cryogenicallyâ€cooled transceive surface radiofrequency probe. Magnetic Resonance in Medicine, 2022, 87, 1952-1970.	1.9	5
2	Diffusionâ€weighted magnetic resonance imaging in rat kidney using twoâ€dimensional navigated, interleaved echoâ€planar imaging at 7.0ÂT. NMR in Biomedicine, 2022, 35, e4652.	1.6	1
3	Magnetic fieldâ€"induced interactions between phones containing magnets and cardiovascular implantable electronic devices: Flip it to be safe?. Heart Rhythm, 2022, 19, 372-380.	0.3	10
4	Sustainable low-field cardiovascular magnetic resonance in changing healthcare systems. European Heart Journal Cardiovascular Imaging, 2022, 23, e246-e260.	0.5	17
5	Evaluating metallic artefact of biodegradable magnesium-based implants in magnetic resonance imaging. Bioactive Materials, 2022, 15, 382-391.	8.6	5
6	An uncertainty-aware, shareable, and transparent neural network architecture for brain-age modeling. Science Advances, 2022, 8, eabg9471.	4.7	13
7	Radiofrequency Antenna Helmet Array for Thermal Magnetic Resonance of Brain Tumours at 297 MHz. , 2022, , .		1
8	Physiological system analysis of the kidney by highâ€temporalâ€resolution monitoring of an oxygenation step response. Magnetic Resonance in Medicine, 2021, 85, 334-345.	1.9	2
9	Quantitative Assessment of Renal Perfusion and Oxygenation by Invasive Probes: Basic Concepts. Methods in Molecular Biology, 2021, 2216, 89-107.	0.4	5
10	Monitoring Renal Hemodynamics and Oxygenation by Invasive Probes: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 327-347.	0.4	4
11	Recommendations for Preclinical Renal MRI: A Comprehensive Open-Access Protocol Collection to Improve Training, Reproducibility, and Comparability of Studies. Methods in Molecular Biology, 2021, 2216, 3-23.	0.4	3
12	Hardware Considerations for Preclinical Magnetic Resonance of the Kidney. Methods in Molecular Biology, 2021, 2216, 131-155.	0.4	1
13	Functional Imaging Using Fluorine (19F) MR Methods: Basic Concepts. Methods in Molecular Biology, 2021, 2216, 279-299.	0.4	6
14	Fluorine (19F) MRI for Assessing Inflammatory Cells in the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 495-507.	0.4	1
15	Subsegmentation of the Kidney in Experimental MR Images Using Morphology-Based Regions-of-Interest or Multiple-Layer Concentric Objects. Methods in Molecular Biology, 2021, 2216, 549-564.	0.4	1
16	Analysis Protocols for MRI Mapping of the Blood Oxygenationâ€"Sensitive Parameters T2* and T2 in the Kidney. Methods in Molecular Biology, 2021, 2216, 591-610.	0.4	1
17	Magnetic Resonance Imaging of Multiple Sclerosis at 7.0 Tesla. Journal of Visualized Experiments, 2021, , .	0.2	3
18	Multi-Channel RF Supervision Module for Thermal Magnetic Resonance Based Cancer Therapy. Cancers, 2021, 13, 1001.	1.7	8

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19	Ophthalmic Magnetic Resonance Imaging: Where Are We (Heading To)?. Current Eye Research, 2021, 46, 1251-1270.	0.7	18
20	Patient-Specific Planning for Thermal Magnetic Resonance of Glioblastoma Multiforme. Cancers, 2021, 13, 1867.	1.7	7
21	Simultaneous T 2 and mapping of multiple sclerosis lesions with radial RAREâ€EPI. Magnetic Resonance in Medicine, 2021, 86, 1383-1402.	1.9	2
22	Cardiovascular magnetic resonance detects microvascular dysfunction in a mouse model of hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 63.	1.6	3
23	32â€Channel selfâ€grounded bowâ€tie transceiver array for cardiac MR at 7.0T. Magnetic Resonance in Medicine, 2021, 86, 2862-2879.	1.9	7
24	Reliable kidney size determination by magnetic resonance imaging in pathophysiological settings. Acta Physiologica, 2021, 233, e13701.	1.8	7
25	Continuous diffusion spectrum computation for diffusion-weighted magnetic resonance imaging of the kidney tubule system. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3098-3119.	1.1	11
26	Ultrahigh field MRI determination of water diffusion rates in ex vivo human lenses of different age. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3029-3041.	1.1	2
27	Current Applications and Future Development of Magnetic Resonance Fingerprinting in Diagnosis, Characterization, and Response Monitoring in Cancer. Cancers, 2021, 13, 4742.	1.7	5
28	Data Preparation Protocol for Low Signal-to-Noise Ratio Fluorine-19 MRI. Methods in Molecular Biology, 2021, 2216, 711-722.	0.4	4
29	<i>In vivo</i> detection of teriflunomide-derived fluorine signal during neuroinflammation using fluorine MR spectroscopy. Theranostics, 2021, 11, 2490-2504.	4.6	10
30	Renal MRI Diffusion: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 419-428.	0.4	0
31	Pentafluorosulfanyl (SF₅) as a Superior ¹⁹F Magnetic Resonance Reporter Group: Signal Detection and Biological Activity of Teriflunomide Derivatives. ACS Sensors, 2021, 6, 3948-3956.	4.0	9
32	In vivo potassium MRI of the human heart. Magnetic Resonance in Medicine, 2020, 83, 203-213.	1.9	7
33	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 177-195.	1.1	61
34	Google maps for tissues: Multiscale imaging of biological systems and disease. Acta Physiologica, 2020, 228, e13392.	1.8	11
35	Brain Iron and Metabolic Abnormalities in C19orf12 Mutation Carriers: A 7.0 Tesla MRI Study in Mitochondrial Membrane Proteinâ€"Associated Neurodegeneration. Movement Disorders, 2020, 35, 142-150.	2.2	16
36	Cardiorenal sodium MRI in small rodents using a quadrature birdcage volume resonator at 9.4ÂT. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 121-130.	1.1	2

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37	Probing renal blood volume with magnetic resonance imaging. Acta Physiologica, 2020, 228, e13435.	1.8	16
38	BRAVE-NET: Fully Automated Arterial Brain Vessel Segmentation in Patients With Cerebrovascular Disease. Frontiers in Artificial Intelligence, 2020, 3, 552258.	2.0	40
39	Design, Implementation, Evaluation and Application of a 32-Channel Radio Frequency Signal Generator for Thermal Magnetic Resonance Based Anti-Cancer Treatment. Cancers, 2020, 12, 1720.	1.7	8
40	Imagine physiology without imaging. Acta Physiologica, 2020, 230, e13549.	1.8	4
41	Solving the Time- and Frequency-Multiplexed Problem of Constrained Radiofrequency Induced Hyperthermia. Cancers, 2020, 12, 1072.	1.7	17
42	The (Un)Conscious Mouse as a Model for Human Brain Functions: Key Principles of Anesthesia and Their Impact on Translational Neuroimaging. Frontiers in Systems Neuroscience, 2020, 14, 8.	1.2	45
43	Controlled Release of Therapeutics from Thermoresponsive Nanogels: A Thermal Magnetic Resonance Feasibility Study. Cancers, 2020, 12, 1380.	1.7	15
44	Radiofrequency applicator concepts for thermal magnetic resonance of brain tumors at 297â€‰MHz (7.0ÂTesla). International Journal of Hyperthermia, 2020, 37, 549-563.	1.1	17
45	Performance of compressed sensing for fluorineâ€19 magnetic resonance imaging at low signalâ€toâ€noise ratio conditions. Magnetic Resonance in Medicine, 2020, 84, 592-608.	1.9	14
46	Wideband Selfâ€Grounded Bowâ€Tie Antenna for Thermal MR. NMR in Biomedicine, 2020, 33, e4274.	1.6	13
47	B₁ inhomogeneity correction of RARE MRI with transceive surface radiofrequency probes. Magnetic Resonance in Medicine, 2020, 84, 2684-2701.	1.9	5
48	Transient enlargement of brain ventricles during relapsing-remitting multiple sclerosis and experimental autoimmune encephalomyelitis. JCI Insight, 2020, 5, .	2.3	13
49	Cardiorenal sodium MRI at 7.0 Tesla using a 4/4 channel ¹H/²³Na radiofrequency antenna array. Magnetic Resonance in Medicine, 2019, 82, 2343-2356.	1.9	16
50	Toward 19F magnetic resonance thermometry: spinâ€“lattice and spinâ€“spin-relaxation times and temperature dependence of fluorinated drugs at 9.4 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 51-61.	1.1	14
51	A synthetic epoxyeicosatrienoic acid analogue prevents the initiation of ischemic acute kidney injury. Acta Physiologica, 2019, 227, e13297.	1.8	26
52	Porous medium 3D flow simulation of contrast media washout in cardiac MRI reflects myocardial injury. Magnetic Resonance in Medicine, 2019, 82, 775-785.	1.9	0
53	Special issue on fluorine-19 magnetic resonance: technical solutions, research promises and frontier applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 1-3.	1.1	7
54	Corrections of myocardial tissue sodium concentration measurements in human cardiac ²³Na MRI at 7 Tesla. Magnetic Resonance in Medicine, 2019, 82, 159-173.	1.9	28

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55	Quantitative 7T MRI does not detect occult brain damage in neuromyelitis optica. Neurology: Neuroimmunology and NeuroInflammation, 2019, 6, e541.	3.1	15
56	Human Cardiac Magnetic Resonance at Ultrahigh Fields. , 2019, , 142-160.e4.		0
57	Diffusion-weighted Renal MRI at 9.4â€‰Tesla Using RARE to Improve Anatomical Integrity. Scientific Reports, 2019, 9, 19723.	1.6	4
58	Lung Purinoceptor Activation Triggers Ventilator-Induced Brain Injury. Critical Care Medicine, 2019, 47, e911-e918.	0.4	15
59	Cardiac Magnetic Resonance Imaging at 7 Tesla. Journal of Visualized Experiments, 2019, , .	0.2	7
60	The choice of embedding media affects image quality, tissue R₂[*], and susceptibility behaviors in postâ€mortem brain MR microscopy at 7.0T. Magnetic Resonance in Medicine, 2019, 81, 2688-2701.	1.9	17
61	Fluorine-19 MRI at 21.1ÂT: enhanced spinâ€“lattice relaxation of perfluoro-15-crown-5-ether and sensitivity as demonstrated in ex vivo murine neuroinflammation. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 37-49.	1.1	16
62	Near infrared spectroscopy system for quantitative monitoring of renal hemodynamics and oxygenation in rats. , 2019, , .		0
63	Quantification of Myocardial Effective Transverse Relaxation Time with Magnetic Resonance at 7.0 Tesla for a Better Understanding of Myocardial (Patho)physiology. , 2018, , 343-372.		0
64	High peak and high average radiofrequency power transmit/receive switch for thermal magnetic resonance. Magnetic Resonance in Medicine, 2018, 80, 2246-2255.	1.9	9
65	Multiband diffusionâ€weighted MRI of the eye and orbit free of geometric distortions using a RAREâ€EPI hybrid. NMR in Biomedicine, 2018, 31, e3872.	1.6	14
66	Somatosensory BOLD fMRI reveals close link between salient blood pressure changes and the murine neuromatrix. NeuroImage, 2018, 172, 562-574.	2.1	21
67	Assessment of Blood Brain Barrier Leakage with Gadolinium-Enhanced MRI. Methods in Molecular Biology, 2018, 1718, 395-408.	0.4	18
68	Cardiac MRI in Small Animals. Methods in Molecular Biology, 2018, 1718, 269-284.	0.4	5
69	Millimeter spatial resolution in vivo sodium MRI of the human eye at 7 T using a dedicated radiofrequency transceiver array. Magnetic Resonance in Medicine, 2018, 80, 672-684.	1.9	6
70	Myocardial Effective Transverse Relaxation Time T 2 * is Elevated in Hypertrophic Cardiomyopathy: A 7.0 T Magnetic Resonance Imaging Study. Scientific Reports, 2018, 8, 3974.	1.6	7
71	Development of clinical simultaneous SPECT/MRI. British Journal of Radiology, 2018, 91, 20160690.	1.0	51
72	Brain iron accumulation in Wilson's disease: A longitudinal imaging case study during anticopper treatment using 7.0T MRI and transcranial sonography. Journal of Magnetic Resonance Imaging, 2018, 47, 282-285.	1.9	29

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73	Interpretation of functional renal MRI findings: Where physiology and imaging sciences need to talk across domains. Journal of Magnetic Resonance Imaging, 2018, 47, 1140-1141.	1.9	2
74	Cover Image, Volume 31, Issue 3. NMR in Biomedicine, 2018, 31, e3811.	1.6	0
75	SPECT/MRI INSERT Compatibility: Assessment, Solutions, and Design Guidelines. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 369-379.	2.7	28
76	7 Tesla MRI of Balo's concentric sclerosis versus multiple sclerosis lesions. Annals of Clinical and Translational Neurology, 2018, 5, 900-912.	1.7	14
77	Gadolinium Deposition in the Brain after Contrast-enhanced MRI: Are the Data Valid?. Radiology, 2018, 288, 630-632.	3.6	6
78	Claudin peptidomimetics modulate tissue barriers for enhanced drug delivery. Annals of the New York Academy of Sciences, 2017, 1397, 169-184.	1.8	58
79	Regulation of body weight and energy homeostasis by neuronal cell adhesion molecule 1. Nature Neuroscience, 2017, 20, 1096-1103.	7.1	59
80	High Field Cardiac Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	25
81	Reliable determination of tissue optical properties from spatially resolved reflectance. Proceedings of SPIE, 2017, , .	0.8	0
82	Open Source 3D Multipurpose Measurement System with Submillimetre Fidelity and First Application in Magnetic Resonance. Scientific Reports, 2017, 7, 13452.	1.6	17
83	Enhanced Fluorine-19 MRI Sensitivity using a Cryogenic Radiofrequency Probe: Technical Developments and Ex Vivo Demonstration in a Mouse Model of Neuroinflammation. Scientific Reports, 2017, 7, 9808.	1.6	34
84	Labeling of cell therapies: How can we get it right?. OncoImmunology, 2017, 6, e1345403.	2.1	10
85	Magnetic resonance safety and compatibility of tantalum markers used in proton beam therapy for intraocular tumors: A 7.0 Tesla study. Magnetic Resonance in Medicine, 2017, 78, 1533-1546.	1.9	21
86	Myocardial effective transverse relaxation time T2* Correlates with left ventricular wall thickness: A 7.0 T MRI study. Magnetic Resonance in Medicine, 2017, 77, 2381-2389.	1.9	21
87	Myocardial T2* Mapping with Ultrahigh Field Magnetic Resonance: Physics and Frontier Applications. Frontiers in Physics, 2017, 5, .	1.0	8
88	Radiofrequency applicator concepts for simultaneous MR imaging and hyperthermia treatment of glioblastoma multiforme. Current Directions in Biomedical Engineering, 2017, 3, 473-477.	0.2	13
89	Myocardial T2* mapping at ultrahigh magnetic fields: in vivo myocardial tissue characteri-zation and assessment of cardiac physiology with magnetic resonance imaging. Current Directions in Biomedical Engineering, 2017, 3, 433-436.	0.2	0
90	Tissue optical properties from spatially resolved reflectance: calibration and in vivo application on rat kidney. Proceedings of SPIE, 2017, , .	0.8	2

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91	Experimental MRI Monitoring of Renal Blood Volume Fraction Variations En Route to Renal Magnetic Resonance Oximetry. Tomography, 2017, 3, 188-200.	0.8	16
92	Progressive Multifocal Leukoencephalopathy in a Multiple Sclerosis Patient Diagnosed after Switching from Natalizumab to Fingolimod. Case Reports in Neurological Medicine, 2016, 2016, 1-8.	0.3	13
93	High Spatial Resolution Cardiovascular Magnetic Resonance at 7.0 Tesla in Patients with Hypertrophic Cardiomyopathy â€" First Experiences: Lesson Learned from 7.0 Tesla. PLoS ONE, 2016, 11, e0148066.	1.1	28
94	Local Multi-Channel RF Surface Coil versus Body RF Coil Transmission for Cardiac Magnetic Resonance at 3 Tesla: Which Configuration Is Winning the Game?. PLoS ONE, 2016, 11, e0161863.	1.1	22
95	Normothermic Mouse Functional MRI of Acute Focal Thermostimulation for Probing Nociception. Scientific Reports, 2016, 6, 17230.	1.6	15
96	Widespread inflammation in CLIPPERS syndrome indicated by autopsy and ultra-high-field 7T MRI. Neurology: Neuroimmunology and NeuroInflammation, 2016, 3, e226.	3.1	47
97	Neuromyelitis optica does not impact periventricular venous density versus healthy controls: a 7.0ÂTesla MRI clinical study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 535-541.	1.1	9
98	Moyamoya Vessel Pathology Imaged by Ultraâ€"High-Field Magnetic Resonance Imaging at 7.0â€‰T. Journal of Stroke and Cerebrovascular Diseases, 2016, 25, 1544-1551.	0.7	13
99	The traveling heads: multicenter brain imaging at 7 Tesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 399-415.	1.1	26
100	MRI phase changes in multiple sclerosis vs neuromyelitis optica lesions at 7T. Neurology: Neuroimmunology and NeuroInflammation, 2016, 3, e259.	3.1	38
101	Acute effects of ferumoxytol on regulation of renal hemodynamics and oxygenation. Scientific Reports, 2016, 6, 29965.	1.6	12
102	What Do BOLD MR Imaging Changes in Donorsâ€™ Remaining Kidneys Tell Us?. Radiology, 2016, 281, 653-655.	3.6	5
103	Cardiomyocyte-derived CXCL12 is not involved in cardiogenesis but plays a crucial role in myocardial infarction. Journal of Molecular Medicine, 2016, 94, 1005-1014.	1.7	18
104	From ultrahigh to extreme field magnetic resonance: where physics, biology and medicine meet. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 309-311.	1.1	14
105	ERK1 as a Therapeutic Target for Dendritic Cell Vaccination against High-Grade Gliomas. Molecular Cancer Therapeutics, 2016, 15, 1975-1987.	1.9	7
106	Current T1 and T2 mapping techniques applied with simple thresholds cannot discriminate acute from chronic myocadial infarction on an individual patient basis: a pilot study. BMC Medical Imaging, 2016, 16, 35.	1.4	7
107	Electrodynamics and radiofrequency antenna concepts for human magnetic resonance at 23.5ÂT (1ÂGHz) and beyond. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 641-656.	1.1	28
108	16â€channel bow tie antenna transceiver array for cardiac MR at 7.0 tesla. Magnetic Resonance in Medicine, 2016, 75, 2553-2565.	1.9	72

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109	W(h)ither human cardiac and body magnetic resonance at ultrahigh fields? technical advances, practical considerations, applications, and clinical opportunities. NMR in Biomedicine, 2016, 29, 1173-1197.	1.6	40
110	Magnetic resonance thermometry: Methodology, pitfalls and practical solutions. International Journal of Hyperthermia, 2016, 32, 63-75.	1.1	173
111	Magnetic Resonance Imaging (MRI) Analysis of Ischemia/Reperfusion in Experimental Acute Renal Injury. Methods in Molecular Biology, 2016, 1397, 113-127.	0.4	10
112	Assessment of Renal Hemodynamics and Oxygenation by Simultaneous Magnetic Resonance Imaging (MRI) and Quantitative Invasive Physiological Measurements. Methods in Molecular Biology, 2016, 1397, 129-154.	0.4	9
113	Chapter 11 Fluorinated Natural Compounds and Synthetic Drugs. , 2016, , 311-344.		2
114	Chapter 9 Tracking of Dendritic Cells. , 2016, , 243-282.		0
115	Skin sodium measured with ²³Na MRI at 7.0 T. NMR in Biomedicine, 2015, 28, 54-62.	1.6	74
116	Ultrahigh field MRI in clinical neuroimmunology: a potential contribution to improved diagnostics and personalised disease management. EPMA Journal, 2015, 6, 16.	3.3	36
117	Thermal magnetic resonance: physics considerations and electromagnetic field simulations up to 23.5 Tesla (1GHz). Radiation Oncology, 2015, 10, 201.	1.2	39
118	Eight-channel transceiver RF coil array tailored for ¹ H/¹⁹ F MR of the human knee and fluorinated drugs at 7.0 T. NMR in Biomedicine, 2015, 28, 726-737.	1.6	25
119	On the RF heating of coronary stents at 7.0 Tesla MRI. Magnetic Resonance in Medicine, 2015, 74, 999-1010.	1.9	58
120	On the RF heating of coronary stents at 7.0 Tesla MRI. Magnetic Resonance in Medicine, 2015, 74, spcone-spcone.	1.9	1
121	Anatomic and pathological characterization of choroidal melanoma using multimodal imaging. Melanoma Research, 2015, 25, 252-258.	0.6	17
122	Sodium MRI of the human heart at 7.0â€‰T: preliminary results. NMR in Biomedicine, 2015, 28, 967-975.	1.6	26
123	Diffusion-Sensitized Ophthalmic Magnetic Resonance Imaging Free of Geometric Distortion at 3.0 and 7.0 T. Investigative Radiology, 2015, 50, 309-321.	3.5	24
124	Magnetic Resonance Phase Alterations in Multiple Sclerosis Patients with Short and Long Disease Duration. PLoS ONE, 2015, 10, e0128386.	1.1	16
125	Advancing Cardiovascular, Neurovascular, and Renal Magnetic Resonance Imaging in Small Rodents Using Cryogenic Radiofrequency Coil Technology. Frontiers in Pharmacology, 2015, 6, 255.	1.6	35
126	Whole-Body MR Imaging in the German National Cohort: Rationale, Design, and Technical Background. Radiology, 2015, 277, 206-220.	3.6	137

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127	Characterization of hemodynamics and oxygenation in the renal cortex of rats. Proceedings of SPIE, 2015, , .	0.8	0
128	7T MRI in natalizumab-associated PML and ongoing MS disease activity. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e171.	3.1	20
129	Monitoring hemodynamics and oxygenation of the kidney in rats by a combined near-infrared spectroscopy and invasive probe approach. Proceedings of SPIE, 2015, , .	0.8	0
130	On the Subjective Acceptance during Cardiovascular Magnetic Resonance Imaging at 7.0 Tesla. PLoS ONE, 2015, 10, e0117095.	1.1	14
131	Optic radiation damage in multiple sclerosis is associated with visual dysfunction and retinal thinning â€" an ultrahigh-field MR pilot study. European Radiology, 2015, 25, 122-131.	2.3	84
132	On the subjective acceptance during cardiovascular magnetic resonance imaging at 7.0 Tesla. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P13.	1.6	1
133	Cardiovascular magnetic resonance at 7.0 Tesla in patients with hypertrophic cardiomyopathy - a pilot study. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q108.	1.6	1
134	Anchoring Dipalmitoyl Phosphoethanolamine to Nanoparticles Boosts Cellular Uptake and Fluorine-19 Magnetic Resonance Signal. Scientific Reports, 2015, 5, 8427.	1.6	15
135	Detailing renal hemodynamics and oxygenation in rats by a combined near-infrared spectroscopy and invasive probe approach. Biomedical Optics Express, 2015, 6, 309.	1.5	29
136	How bold is blood oxygenation levelâ€dependent (BOLD) magnetic resonance imaging of the kidney? Opportunities, challenges and future directions. Acta Physiologica, 2015, 213, 19-38.	1.8	100
137	Ultrahigh-field MPRAGE Magnetic Resonance Angiography at 7.0T in patients with cerebrovascular disease. European Journal of Radiology, 2015, 84, 2613-2617.	1.2	10
138	Retrospectively-gated CINE 23Na imaging of the heart at 7.0 Tesla using density-adapted 3D projection reconstruction. Magnetic Resonance Imaging, 2015, 33, 1091-1097.	1.0	17
139	Monitoring hemodynamics and oxygenation of the kidney in rats by a combined near-infrared spectroscopy and invasive probe approach. , 2015, , .		0
140	Rapid Parametric Mapping of the Longitudinal Relaxation Time T1 Using Two-Dimensional Variable Flip Angle Magnetic Resonance Imaging at 1.5 Tesla, 3 Tesla, and 7 Tesla. PLoS ONE, 2014, 9, e91318.	1.1	38
141	Accelerated Fast Spin-Echo Magnetic Resonance Imaging of the Heart Using a Self-Calibrated Split-Echo Approach. PLoS ONE, 2014, 9, e94654.	1.1	3
142	Combining Photonic Crystal and Optical Monte Carlo Simulations: Implementation, Validation and Application in a Positron Emission Tomography Detector. IEEE Transactions on Nuclear Science, 2014, 61, 3618-3626.	1.2	0
143	Detailing intra-lesional venous lumen shrinking in multiple sclerosis investigated by sFLAIR MRI at 7-T. Journal of Neurology, 2014, 261, 2032-2036.	1.8	17
144	7â€Tesla <scp>Magnetic Resonance Imaging</scp> for Brain Iron Quantification in Homozygous and Heterozygous <i><scp>PANK</scp>2</i> Mutation Carriers. Movement Disorders Clinical Practice, 2014, 1, 329-335.	0.8	15

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145	Detailing magnetic field strength dependence and segmental artifact distribution of myocardial effective transverse relaxation rate at 1.5, 3.0, and 7.0 T. Magnetic Resonance in Medicine, 2014, 71, 2224-2230.	1.9	25
146	Simultaneous dual contrast weighting using double echo rapid acquisition with relaxation enhancement (RARE) imaging. Magnetic Resonance in Medicine, 2014, 72, 1590-1598.	1.9	9
147	Cerebral blood volume estimation by ferumoxytol-enhanced steady-state MRI at 9.4â€‰T reveals microvascular impact of Î±1 -adrenergic receptor antibodies. NMR in Biomedicine, 2014, 27, 1085-1093.	1.6	14
148	Ophthalmic Magnetic Resonance Imaging at 7 T Using a 6-Channel Transceiver Radiofrequency Coil Array in Healthy Subjects and Patients With Intraocular Masses. Investigative Radiology, 2014, 49, 260-270.	3.5	32
149	Detailing the Relation Between Renal T2* and Renal Tissue pO2 Using an Integrated Approach of Parametric Magnetic Resonance Imaging and Invasive Physiological Measurements. Investigative Radiology, 2014, 49, 547-560.	3.5	64
150	Ultrahigh field magnetic resonance and colour Doppler real-time fusion imaging of the orbit â€" a hybrid tool for assessment of choroidal melanoma. European Radiology, 2014, 24, 1112-1117.	2.3	21
151	Modular 32-channel transceiver coil array for cardiac MRI at 7.0T. Magnetic Resonance in Medicine, 2014, 72, 276-290.	1.9	90
152	Identical lesion morphology in primary progressive and relapsingâ€"remitting MS â€"an ultrahigh field MRI study. Multiple Sclerosis Journal, 2014, 20, 1866-1871.	1.4	40
153	High spatial resolution inÂvivo magnetic resonance imaging of the human eye, orbit, nervus opticus and optic nerve sheath at 7.0 Tesla. Experimental Eye Research, 2014, 125, 89-94.	1.2	34
154	Myocardial T1 and T2 mapping at 3ÂT: reference values, influencing factors and implications. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 53.	1.6	198
155	Assessment of the right ventricle with cardiovascular magnetic resonance at 7 Tesla. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 23.	1.6	42
156	Toll-like receptor 2 mediates microglia/brain macrophage MT1-MMP expression and glioma expansion. Neuro-Oncology, 2013, 15, 1457-1468.	0.6	115
157	Towards a five-minute comprehensive cardiac MR examination using highly accelerated parallel imaging with a 32-element coil array: Feasibility and initial comparative evaluation. Journal of Magnetic Resonance Imaging, 2013, 38, 180-188.	1.9	18
158	Multi-channel transmit/receive RF coil arrays for cardiac MRI at ultrahigh fields: Design, validation and clinical application. , 2013, , .		2
159	Periventricular venous density in multiple sclerosis is inversely associated with T2 lesion count: a 7 Tesla MRI study. Multiple Sclerosis Journal, 2013, 19, 316-325.	1.4	52
160	Design, evaluation and application of an eight channel transmit/receive coil array for cardiac MRI at 7.0T. European Journal of Radiology, 2013, 82, 752-759.	1.2	46
161	Progress and promises of human cardiac magnetic resonance at ultrahigh fields: A physics perspective. Journal of Magnetic Resonance, 2013, 229, 208-222.	1.2	61
162	GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. Acta Neuropathologica, 2013, 125, 609-620.	3.9	97

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163	Near-infrared spectroscopy of renal tissue in vivo. , 2013, , .		2
164	Linking nonâ€invasive parametric <scp>MRI</scp> with invasive physiological measurements (<scp>MR</scp>â€<scp>PHYSIOL</scp>): towards a hybrid and integrated approach for investigation of acute kidney injury in rats. Acta Physiologica, 2013, 207, 673-689.	1.8	35
165	Early effects of an xâ€ray contrast medium on renal T₂*/T₂<scp>MRI</scp> as compared to shortâ€term hyperoxia, hypoxia and aortic occlusion in rats. Acta Physiologica, 2013, 208, 202-213.	1.8	29
166	Isometric handgrip exercise during cardiovascular magnetic resonance imaging: Setâ€up and cardiovascular effects. Journal of Magnetic Resonance Imaging, 2013, 37, 1342-1350.	1.9	15
167	Visualizing Brain Inflammation with a Shingled-Leg Radio-Frequency Head Probe for 19F/1H MRI. Scientific Reports, 2013, 3, 1280.	1.6	39
168	Monitoring Dendritic Cell Migration using ¹⁹F / ¹H Magnetic Resonance Imaging. Journal of Visualized Experiments, 2013, , e50251.	0.2	11
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