

Daniel Nanz

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90
papers

2,291
citations

26
h-index

44
g-index

92
ext. papers

2,588
ext. citations

7.1
avg, IF

4.58
L-index

#	Paper	IF	Citations
90	Characterization of dysfunctional myocardium by positron emission tomography and magnetic resonance: relation to functional outcome after revascularization. <i>Circulation</i> , 2003 , 108, 1095-100	16.7	141
89	Quantification of muscle fat in patients with low back pain: comparison of multi-echo MR imaging with single-voxel MR spectroscopy. <i>Radiology</i> , 2013 , 266, 555-63	20.5	114
88	Age- and Level-Dependence of Fatty Infiltration in Lumbar Paravertebral Muscles of Healthy Volunteers. <i>American Journal of Neuroradiology</i> , 2016 , 37, 742-8	4.4	108
87	Diffusion-weighted MR imaging of upper abdominal organs: field strength and intervendor variability of apparent diffusion coefficients. <i>Radiology</i> , 2014 , 270, 454-63	20.5	101
86	Assessment of median nerve with MR neurography by using diffusion-tensor imaging: normative and pathologic diffusion values. <i>Radiology</i> , 2012 , 265, 194-203	20.5	93
85	HECADE: HMQC- and HSQC-Based 2D NMR Experiments for Accurate and Sensitive Determination of Heteronuclear Coupling Constants from E.COSY-Type Cross Peaks. <i>Journal of Magnetic Resonance</i> , 1997 , 124, 383-392	3	83
84	MRI: the new reference standard in quantifying hepatic steatosis?. <i>Gut</i> , 2012 , 61, 117-27	19.2	82
83	Peripheral arteries in diabetic patients: standard bolus-chase and time-resolved MR angiography. <i>Radiology</i> , 2007 , 242, 610-20	20.5	81
82	Magnetization transfer for the assessment of bowel fibrosis in patients with Crohn's disease: initial experience. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013 , 26, 291-301	2.8	66
81	Sensitivity improvement and new acquisition scheme of heteronuclear active-coupling-pattern-tilting spectroscopy. <i>Journal of Magnetic Resonance</i> , 2000 , 142, 294-9	3	64
80	Magnetic resonance myocardial first-pass perfusion imaging: parameter optimization for signal response and cardiac coverage. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 556-62	5.6	62
79	Transition metal NMR spectroscopy. Part XXIII. Rhodium-103 shielding and the stereoselectivity of dihydrogen (H ₂) addition to diastereomeric olefin complexes. <i>Journal of the American Chemical Society</i> , 1993 , 115, 5889-5890	16.4	47
78	Diagnostic accuracy of whole-body MRI/DWI image fusion for detection of malignant tumours: a comparison with PET/CT. <i>European Radiology</i> , 2011 , 21, 246-55	8	43
77	Muskuloskeletal MR imaging at 3.0 T: current status and future perspectives. <i>European Radiology</i> , 2006 , 16, 1298-307	8	43
76	Vascular stents as RF antennas for intravascular MR guidance and imaging. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 738-45	4.4	43
75	Synthesis and 2D-(¹ H, ¹⁰³ Rh)-NMR Study of the First Non-Classical Polyhydrido Complex Stabilized by a Nitrogen Donor Ligand. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 548-549		43
74	IR, Multinuclear-NMR, and Structural Studies on [WH(CO) ₂ (NO)(PR ₃) ₂]: cis-Influence of Phosphorus Ligands on Hydride Character. <i>Helvetica Chimica Acta</i> , 1991 , 74, 1194-1204	2	42

73	Whole-body diffusion kurtosis imaging: initial experience on non-Gaussian diffusion in various organs. <i>Investigative Radiology</i> , 2014 , 49, 773-8	10.1	41
72	A comprehensive numerical analysis of background phase correction with V-SHARP. <i>NMR in Biomedicine</i> , 2017 , 30, e3550	4.4	40
71	MR neurography of the median nerve at 3.0T: optimization of diffusion tensor imaging and fiber tractography. <i>European Journal of Radiology</i> , 2012 , 81, e775-82	4.7	35
70	3D contrast-enhanced MR angiography of the run-off vessels: value of image subtraction. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 13, 402-11	5.6	32
69	Diffusion-Weighted Imaging of the Prostate: Image Quality and Geometric Distortion of Readout-Segmented Versus Selective-Excitation Accelerated Acquisitions. <i>Investigative Radiology</i> , 2015 , 50, 785-91	10.1	31
68	Diagnostic performance and accuracy of 3-D spoiled gradient-dual-echo MRI with water- and fat-signal separation in liver-fat quantification: comparison to liver biopsy. <i>Investigative Radiology</i> , 2010 , 45, 465-70	10.1	31
67	Direct MR arthrography at 1.5 and 3.0 T: signal dependence on gadolinium and iodine concentrations--phantom study. <i>Radiology</i> , 2008 , 247, 706-16	20.5	31
66	Assessment of skeletal muscle perfusion by contrast medium first-pass magnetic resonance imaging: technical feasibility and preliminary experience in healthy volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 111-21	5.6	27
65	Characterization of partially deuteriated transition metal polyhydrido complexes by heteronuclear 2D NMR techniques. <i>Magnetic Resonance in Chemistry</i> , 1991 , 29, S38-S44	2.1	26
64	Diffusion tensor imaging of the median nerve at 3.0 T using different MR scanners: agreement of FA and ADC measurements. <i>European Journal of Radiology</i> , 2013 , 82, e590-6	4.7	25
63	Diffusion tensor imaging of the median nerve: intra-, inter-reader agreement, and agreement between two software packages. <i>Skeletal Radiology</i> , 2012 , 41, 971-80	2.7	25
62	Image Quality and Geometric Distortion of Modern Diffusion-Weighted Imaging Sequences in Magnetic Resonance Imaging of the Prostate. <i>Investigative Radiology</i> , 2018 , 53, 200-206	10.1	25
61	Probing neuronal activation by functional quantitative susceptibility mapping under a visual paradigm: A group level comparison with BOLD fMRI and PET. <i>NeuroImage</i> , 2016 , 137, 52-60	7.9	24
60	Cross-sectional area measurements versus volumetric assessment of the quadriceps femoris muscle in patients with anterior cruciate ligament reconstructions. <i>European Radiology</i> , 2015 , 25, 290-8	8	23
59	Quantitative and qualitative MR-imaging assessment of vastus medialis muscle volume loss in asymptomatic patients after anterior cruciate ligament reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 515-25	5.6	23
58	Liver fat quantification by dual-echo MR imaging outperforms traditional histopathological analysis. <i>Academic Radiology</i> , 2012 , 19, 1208-14	4.3	23
57	Leonticins D-H, five triterpene saponins from <i>Leontice kiangnanensis</i> . <i>Phytochemistry</i> , 1997 , 44, 497-504		23
56	Comparison of image quality and patient discomfort in prostate MRI: pelvic phased array coil vs. endorectal coil. <i>Abdominal Radiology</i> , 2016 , 41, 2218-2226	3	22

55	Whole-body adipose tissue and lean muscle volumes and their distribution across gender and age: MR-derived normative values in a normal-weight Swiss population. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 449-458	4.4	21
54	Quantitative breast MRI: 2D histogram analysis of diffusion tensor parameters in normal tissue. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014 , 27, 185-93	2.8	20
53	Magnetic resonance imaging of the liver: apparent diffusion coefficients from multiexponential analysis of b values greater than 50 s/mm ² do not respond to caloric intake despite increased portal-venous blood flow. <i>Investigative Radiology</i> , 2014 , 49, 138-46	10.1	20
52	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC: A Prospective MRI Phantom Study. <i>Investigative Radiology</i> , 2017 , 52, 381-387	10.1	19
51	MR imaging-guided percutaneous sclerotherapy of peripheral venous malformations with a clinical 1.5-T unit: a pilot study. <i>Journal of Vascular and Interventional Radiology</i> , 2009 , 20, 879-87	2.4	19
50	On the stereospecificity of the coenzyme B12-dependent isobutyryl-CoA mutase reaction. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11285-11291	16.4	19
49	Normative values for volume and fat content of the hip abductor muscles and their dependence on side, age and gender in a healthy population. <i>Skeletal Radiology</i> , 2016 , 45, 465-74	2.7	19
48	Magnetic Resonance Imaging of the Temporomandibular Joint at 7.0 T Using High-Permittivity Dielectric Pads: A Feasibility Study. <i>Investigative Radiology</i> , 2015 , 50, 843-9	10.1	18
47	TE-switched double-contrast enhanced visualization of vascular system and instruments for MR-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 645-8	4.4	17
46	MR neurographic orthopantomogram: Ultrashort echo-time imaging of mandibular bone and teeth complemented with high-resolution morphological and functional MR neurography. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 393-400	5.6	17
45	Diffusion Tensor Imaging of the Kidneys: Influence of b-Value and Number of Encoding Directions on Image Quality and Diffusion Tensor Parameters. <i>Journal of Clinical Imaging Science</i> , 2013 , 3, 53	1.1	16
44	Ligating clips for three-dimensional MR angiography at 1.5 T: in vitro evaluation. <i>Radiology</i> , 2000 , 214, 902-7	20.5	16
43	USPIO-enhanced MR imaging for visualization of synovial hyperperfusion and detection of synovial macrophages: preliminary results in an experimental model of antigen-induced arthritis. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 657-66	5.6	15
42	Multislice breath-hold spiral magnetic resonance coronary angiography in patients with coronary artery disease: effect of intravascular contrast medium. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 660-7	5.6	15
41	Sensitive Measurement and Unambiguous Assignment of Long-Range ¹³ C, ¹³ C Coupling Constants at Natural Isotope Abundance. <i>Journal of Magnetic Resonance Series A</i> , 1996 , 122, 245-247		15
40	Quantitative BOLD response of the renal medulla to hyperoxic challenge at 1.5 T and 3.0 T. <i>NMR in Biomedicine</i> , 2012 , 25, 1133-8	4.4	14
39	Diagnostic Accuracy of a MR Protocol Acquired with and without Endorectal Coil for Detection of Prostate Cancer: A Multicenter Study. <i>Current Urology</i> , 2019 , 12, 88-96	1.7	12
38	Diffusion Tensor Imaging of Lumbar Nerve Roots: Comparison Between Fast Readout-Segmented and Selective-Excitation Acquisitions. <i>Investigative Radiology</i> , 2016 , 51, 499-504	10.1	12

37	Quantitative and qualitative comparison of MR imaging of the temporomandibular joint at 1.5 and 3.0 T using an optimized high-resolution protocol. <i>Dentomaxillofacial Radiology</i> , 2016 , 45, 20150240	3.9	11
36	Simultaneous multislice readout-segmented echo planar imaging for accelerated diffusion tensor imaging of the mandibular nerve: A feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 663-677	5.6	11
35	Age- and Gender Dependent Liver Fat Content in a Healthy Normal BMI Population as Quantified by Fat-Water Separating DIXON MR Imaging. <i>PLoS ONE</i> , 2015 , 10, e0141691	3.7	11
34	Blood oxygen level-dependent magnetic resonance imaging of the kidneys: influence of spatial resolution on the apparent R2* transverse relaxation rate of renal tissue. <i>Investigative Radiology</i> , 2013 , 48, 671-7	10.1	11
33	Effect of respiratory hyperoxic challenge on magnetic susceptibility in human brain assessed by quantitative susceptibility mapping (QSM). <i>NMR in Biomedicine</i> , 2015 , 28, 1688-96	4.4	10
32	Coherence pathways and Inverse Spectroscopy of InSm spin systems. <i>Journal of Magnetic Resonance</i> , 1991 , 92, 560-571		10
31	Synthesis and Characterization of 1,2-Disubstituted Vinylsilanes and Their Geometric Differentiation with $^3\text{J}(^{29}\text{Si}, ^1\text{H})$ -Coupling Constants. Application of a Novel Heteronuclear J-Resolved NMR Experiment. <i>Organometallics</i> , 1997 , 16, 3128-3134	3.8	9
30	Assessment of aortoiliac and renal arteries: MR angiography with parallel acquisition versus conventional MR angiography and digital subtraction angiography. <i>Radiology</i> , 2007 , 245, 276-84	20.5	9
29	An Analysis of the Bonding Properties of Benz[a]azulene by X-Ray, NMR, and Computational Studies. <i>Helvetica Chimica Acta</i> , 1996 , 79, 837-854	2	9
28	Enhanced quantitative susceptibility mapping (QSM) using real-time field control. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 770-778	4.4	8
27	Liver: segment-specific analysis of B1 field homogeneity at 3.0-T MR imaging with single-source versus dual-source parallel radiofrequency excitation. <i>Radiology</i> , 2012 , 265, 591-9	20.5	8
26	Assessment of the abdominal aorta and its visceral branches by contrast-enhanced dynamic volumetric hepatic parallel magnetic resonance imaging: feasibility, reliability and accuracy. <i>European Radiology</i> , 2007 , 17, 541-51	8	8
25	Leonticins A-C, three octasaccharide saponins from <i>Leontice kiangnanensis</i> . <i>Journal of Natural Products</i> , 1996 , 59, 722-8	4.9	8
24	In vivo quantification of cerebral r2*-response to graded hyperoxia at 3 tesla. <i>Journal of Clinical Imaging Science</i> , 2015 , 5, 1	1.1	7
23	Performance of unenhanced respiratory-gated 3D SSFP MRA to depict hepatic and visceral artery anatomy and variants. <i>European Journal of Radiology</i> , 2012 , 81, e823-9	4.7	7
22	Pure-Phase Homo- and Heteronuclear J Spectra with Tilted Cross Peaks for an Accurate Determination of Coupling Constants. <i>Journal of Magnetic Resonance</i> , 1997 , 125, 193-6	3	7
21	Glycosylidene Carbenes. Part 18. Insertion of glycosylidene carbenes into the Sn-H bond of tributyl- and triphenylstannane: A synthesis of stannoglycosides. <i>Helvetica Chimica Acta</i> , 1994 , 77, 1430-1440	2	7
20	Two- versus three-dimensional dual gradient-echo MRI of the liver: a technical comparison. <i>European Radiology</i> , 2013 , 23, 408-16	8	6

19	Feasibility of semiquantitative liver perfusion assessment by ferucarbotran bolus injection in double-contrast hepatic MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 168-76	5.6	6
18	Molecular imaging of malignant tumor metabolism: whole-body image fusion of DWI/CT vs. PET/CT. <i>Academic Radiology</i> , 2011 , 18, 940-6	4.3	6
17	Laser-Induced Thermotherapy of the Vertebral Body. <i>Investigative Radiology</i> , 2002 , 37, 557-561	10.1	6
16	Manipulation of cortical gray matter oxygenation by hyperoxic respiratory challenge: field dependence of R(2) * and MR signal response. <i>NMR in Biomedicine</i> , 2012 , 25, 1007-14	4.4	5
15	Feedback field control improves the precision of T * quantification at 7T. <i>NMR in Biomedicine</i> , 2017 , 30, e3753	4.4	5
14	Early detection of cervical spondylotic myelopathy using diffusion tensor imaging: Experiences in 1.5-tesla magnetic resonance imaging. <i>Neuroradiology Journal</i> , 2015 , 28, 508-14	2	5
13	The protein and contrast agent-specific influence of pathological plasma-protein concentration levels on contrast-enhanced magnetic resonance imaging. <i>Investigative Radiology</i> , 2014 , 49, 608-19	10.1	4
12	Contrast material-enhanced visualization of the ablation medium for magnetic resonance-monitored ethanol injection therapy: imaging and safety aspects. <i>Journal of Vascular and Interventional Radiology</i> , 2006 , 17, 95-102	2.4	4
11	Indirect detection of spin-1 nuclei. Application and product-operator description of inverse-correlation experiments with InSm spin systems. <i>Journal of Magnetic Resonance</i> , 1992 , 100, 243-255		4
10	Magnetic Resonance Imaging Around Metal at 1.5 Tesla: Techniques From Basic to Advanced and Clinical Impact. <i>Investigative Radiology</i> , 2021 , 56, 734-748	10.1	4
9	3-T MRI implant safety: heat induction with new dual-channel radiofrequency transmission technology. <i>European Radiology Experimental</i> , 2018 , 2, 7	4.5	3
8	Direct MR arthrography of cadaveric wrists: comparison between MR imaging at 3.0T and 7.0T and gross pathologic inspection. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1333-40	5.6	3
7	Lesion magnetic susceptibility response to hyperoxic challenge: A biomarker for malignant brain tumor microenvironment?. <i>Magnetic Resonance Imaging</i> , 2018 , 47, 147-153	3.3	3
6	Reduction of BOLD interference in pseudo-continuous arterial spin labeling: towards quantitative fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 847-856	7.3	2
5	Prospective intraindividual comparison between respiratory-triggered balanced steady-state free precession and breath-hold gradient-echo and time-of-flight magnetic resonance imaging for assessment of portal and hepatic veins. <i>European Radiology</i> , 2007 , 17, 229-40	8	2
4	Impact of different phased-array coils on the quality of prostate magnetic resonance images. <i>European Journal of Radiology Open</i> , 2021 , 8, 100327	2.6	2
3	Dependency of the blood oxygen level dependent-response to hyperoxic challenges on the order of gas administration in intracranial malignancies. <i>Neuroradiology</i> , 2019 , 61, 783-793	3.2	1
2	MRI as the new reference standard in quantifying liver steatosis: the need for international guidelines. <i>Gut</i> , 2012 , 61, 1370-1371	19.2	1

1 Rheumatoid cervical pannus: feasibility of volume and perfusion quantification using dynamic contrast enhanced time resolved MRI. *Acta Radiologica*, **2020**, 61, 227-235

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