Daniel Nanz

List of Publications by Year in Descending Order

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	Magnetic Resonance Imaging Around Metal at 1.5 Tesla: Techniques From Basic to Advanced and Clinical Impact. *Investigative Radiology*, **2021**, 56, 734-748	10.1	4
89	Impact of different phased-array coils on the quality of prostate magnetic resonance images. *European Journal of Radiology Open*, **2021**, 8, 100327	2.6	2
88	Rheumatoid cervical pannus: feasibility of volume and perfusion quantification using dynamic contrast enhanced time resolved MRI. *Acta Radiologica*, **2020**, 61, 227-235	2	1
87	Dependency of the blood oxygen level dependent-response to hyperoxic challenges on the order of gas administration in intracranial malignancies. *Neuroradiology*, **2019**, 61, 783-793	3.2	1
86	Diagnostic Accuracy of a MR Protocol Acquired with and without Endorectal Coil for Detection of Prostate Cancer: A Multicenter Study. *Current Urology*, **2019**, 12, 88-96	1.7	12
85	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. *Magnetic Resonance in Medicine*, **2018**, 79, 449-458	4.4	21
84	Reduction of BOLD interference in pseudo-continuous arterial spin labeling: towards quantitative fMRI. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 847-856	7.3	2
83	Enhanced quantitative susceptibility mapping (QSM) using real-time field control. *Magnetic Resonance in Medicine*, **2018**, 79, 770-778	4.4	8
82	3-T MRI implant safety: heat induction with new dual-channel radiofrequency transmission technology. *European Radiology Experimental*, **2018**, 2, 7	4.5	3
81	Lesion magnetic susceptibility response to hyperoxic challenge: A biomarker for malignant brain tumor microenvironment?. *Magnetic Resonance Imaging*, **2018**, 47, 147-153	3.3	3
80	Image Quality and Geometric Distortion of Modern Diffusion-Weighted Imaging Sequences in Magnetic Resonance Imaging of the Prostate. *Investigative Radiology*, **2018**, 53, 200-206	10.1	25
79	A comprehensive numerical analysis of background phase correction with V-SHARP. *NMR in Biomedicine*, **2017**, 30, e3550	4.4	40
78	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC: A Prospective MRI Phantom Study. *Investigative Radiology*, **2017**, 52, 381-387	10.1	19
77	Simultaneous multislice readout-segmented echo planar imaging for accelerated diffusion tensor imaging of the mandibular nerve: A feasibility study. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 663-677	5.6	11
76	Feedback field control improves the precision of T * quantification at 7□T. *NMR in Biomedicine*, **2017**, 30, e3753	4.4	5
75	Quantitative and qualitative comparison of MR imaging of the temporomandibular joint at 1.5 and 3.0 T using an optimized high-resolution protocol. *Dentomaxillofacial Radiology*, **2016**, 45, 20150240	3.9	11
74	Age- and Level-Dependence of Fatty Infiltration in Lumbar Paravertebral Muscles of Healthy Volunteers. *American Journal of Neuroradiology*, **2016**, 37, 742-8	4.4	108

73	Comparison of image quality and patient discomfort in prostate MRI: pelvic phased array coil vs. endorectal coil. *Abdominal Radiology*, **2016**, 41, 2218-2226	3	22
72	MR neurographic orthopantomogram: Ultrashort echo-time imaging of mandibular bone and teeth complemented with high-resolution morphological and functional MR neurography. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 393-400	5.6	17
71	Diffusion Tensor Imaging of Lumbar Nerve Roots: Comparison Between Fast Readout-Segmented and Selective-Excitation Acquisitions. *Investigative Radiology*, **2016**, 51, 499-504	10.1	12
70	Normative values for volume and fat content of the hip abductor muscles and their dependence on side, age and gender in a healthy population. *Skeletal Radiology*, **2016**, 45, 465-74	2.7	19
69	Probing neuronal activation by functional quantitative susceptibility mapping under a visual paradigm: A group level comparison with BOLD fMRI and PET. *NeuroImage*, **2016**, 137, 52-60	7.9	24
68	Cross-sectional area measurements versus volumetric assessment of the quadriceps femoris muscle in patients with anterior cruciate ligament reconstructions. *European Radiology*, **2015**, 25, 290-8	8	23
67	Diffusion-Weighted Imaging of the Prostate: Image Quality and Geometric Distortion of Readout-Segmented Versus Selective-Excitation Accelerated Acquisitions. *Investigative Radiology*, **2015**, 50, 785-91	10.1	31
66	Magnetic Resonance Imaging of the Temporomandibular Joint at 7.0 T Using High-Permittivity Dielectric Pads: A Feasibility Study. *Investigative Radiology*, **2015**, 50, 843-9	10.1	18
65	Quantitative and qualitative MR-imaging assessment of vastus medialis muscle volume loss in asymptomatic patients after anterior cruciate ligament reconstruction. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 515-25	5.6	23
64	Effect of respiratory hyperoxic challenge on magnetic susceptibility in human brain assessed by quantitative susceptibility mapping (QSM). *NMR in Biomedicine*, **2015**, 28, 1688-96	4.4	10
63	Age- and Gender Dependent Liver Fat Content in a Healthy Normal BMI Population as Quantified by Fat-Water Separating DIXON MR Imaging. *PLoS ONE*, **2015**, 10, e0141691	3.7	11
62	In vivo quantification of cerebral r2*-response to graded hyperoxia at 3 tesla. *Journal of Clinical Imaging Science*, **2015**, 5, 1	1.1	7
61	Early detection of cervical spondylotic myelopathy using diffusion tensor imaging: Experiences in 1.5-tesla magnetic resonance imaging. *Neuroradiology Journal*, **2015**, 28, 508-14	2	5
60	Quantitative breast MRI: 2D histogram analysis of diffusion tensor parameters in normal tissue. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2014**, 27, 185-93	2.8	20
59	Diffusion-weighted MR imaging of upper abdominal organs: field strength and intervendor variability of apparent diffusion coefficients. *Radiology*, **2014**, 270, 454-63	20.5	101
58	The protein and contrast agent-specific influence of pathological plasma-protein concentration levels on contrast-enhanced magnetic resonance imaging. *Investigative Radiology*, **2014**, 49, 608-19	10.1	4
57	Magnetic resonance imaging of the liver: apparent diffusion coefficients from multiexponential analysis of b values greater than 50 s/mm2 do not respond to caloric intake despite increased portal-venous blood flow. *Investigative Radiology*, **2014**, 49, 138-46	10.1	20
56	Whole-body diffusion kurtosis imaging: initial experience on non-Gaussian diffusion in various organs. *Investigative Radiology*, **2014**, 49, 773-8	10.1	41

55	Magnetization transfer for the assessment of bowel fibrosis in patients with Crohn's disease: initial experience. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2013**, 26, 291-301	2.8	66
54	Two- versus three-dimensional dual gradient-echo MRI of the liver: a technical comparison. *European Radiology*, **2013**, 23, 408-16	8	6
53	Diffusion tensor imaging of the median nerve at 3.0 T using different MR scanners: agreement of FA and ADC measurements. *European Journal of Radiology*, **2013**, 82, e590-6	4.7	25
52	Diffusion Tensor Imaging of the Kidneys: Influence of b-Value and Number of Encoding Directions on Image Quality and Diffusion Tensor Parameters. *Journal of Clinical Imaging Science*, **2013**, 3, 53	1.1	16
51	Blood oxygen level-dependent magnetic resonance imaging of the kidneys: influence of spatial resolution on the apparent R2* transverse relaxation rate of renal tissue. *Investigative Radiology*, **2013**, 48, 671-7	10.1	11
50	Quantification of muscle fat in patients with low back pain: comparison of multi-echo MR imaging with single-voxel MR spectroscopy. *Radiology*, **2013**, 266, 555-63	20.5	114
49	Manipulation of cortical gray matter oxygenation by hyperoxic respiratory challenge: field dependence of R(2) * and MR signal response. *NMR in Biomedicine*, **2012**, 25, 1007-14	4.4	5
48	Quantitative BOLD response of the renal medulla to hyperoxic challenge at 1.5 T and 3.0 T. *NMR in Biomedicine*, **2012**, 25, 1133-8	4.4	14
47	Liver fat quantification by dual-echo MR imaging outperforms traditional histopathological analysis. *Academic Radiology*, **2012**, 19, 1208-14	4.3	23
46	Performance of unenhanced respiratory-gated 3D SSFP MRA to depict hepatic and visceral artery anatomy and variants. *European Journal of Radiology*, **2012**, 81, e823-9	4.7	7
45	MR neurography of the median nerve at 3.0T: optimization of diffusion tensor imaging and fiber tractography. *European Journal of Radiology*, **2012**, 81, e775-82	4.7	35
44	Feasibility of semiquantitative liver perfusion assessment by ferucarbotran bolus injection in double-contrast hepatic MRI. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 168-76	5.6	6
43	Diffusion tensor imaging of the median nerve: intra-, inter-reader agreement, and agreement between two software packages. *Skeletal Radiology*, **2012**, 41, 971-80	2.7	25
42	Liver: segment-specific analysis of B1 field homogeneity at 3.0-T MR imaging with single-source versus dual-source parallel radiofrequency excitation. *Radiology*, **2012**, 265, 591-9	20.5	8
41	Assessment of median nerve with MR neurography by using diffusion-tensor imaging: normative and pathologic diffusion values. *Radiology*, **2012**, 265, 194-203	20.5	93
40	MRI as the new reference standard in quantifying liver steatosis: the need for international guidelines. *Gut*, **2012**, 61, 1370-1371	19.2	1
39	MRI: the new reference standard in quantifying hepatic steatosis?. *Gut*, **2012**, 61, 117-27	19.2	82
38	Molecular imaging of malignant tumor metabolism: whole-body image fusion of DWI/CT vs. PET/CT. *Academic Radiology*, **2011**, 18, 940-6	4.3	6

37	Diagnostic accuracy of whole-body MRI/DWI image fusion for detection of malignant tumours: a comparison with PET/CT. *European Radiology*, **2011**, 21, 246-55	8	43
36	Direct MR arthrography of cadaveric wrists: comparison between MR imaging at 3.0T and 7.0T and gross pathologic inspection. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1333-40	5.6	3
35	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. *Investigative Radiology*, **2010**, 45, 465-70	10.1	31
34	MR imaging-guided percutaneous sclerotherapy of peripheral venous malformations with a clinical 1.5-T unit: a pilot study. *Journal of Vascular and Interventional Radiology*, **2009**, 20, 879-87	2.4	19
33	Direct MR arthrography at 1.5 and 3.0 T: signal dependence on gadolinium and iodine concentrations--phantom study. *Radiology*, **2008**, 247, 706-16	20.5	31
32	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. *European Radiology*, **2007**, 17, 229-40	8	2
31	Assessment of the abdominal aorta and its visceral branches by contrast-enhanced dynamic volumetric hepatic parallel magnetic resonance imaging: feasibility, reliability and accuracy. *European Radiology*, **2007**, 17, 541-51	8	8
30	Peripheral arteries in diabetic patients: standard bolus-chase and time-resolved MR angiography. *Radiology*, **2007**, 242, 610-20	20.5	81
29	Assessment of aortoiliac and renal arteries: MR angiography with parallel acquisition versus conventional MR angiography and digital subtraction angiography. *Radiology*, **2007**, 245, 276-84	20.5	9
28	USPIO-enhanced MR imaging for visualization of synovial hyperperfusion and detection of synovial macrophages: preliminary results in an experimental model of antigen-induced arthritis. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 657-66	5.6	15
27	Contrast material-enhanced visualization of the ablation medium for magnetic resonance-monitored ethanol injection therapy: imaging and safety aspects. *Journal of Vascular and Interventional Radiology*, **2006**, 17, 95-102	2.4	4
26	Muskuloskeletal MR imaging at 3.0 T: current status and future perspectives. *European Radiology*, **2006**, 16, 1298-307	8	43
25	Assessment of skeletal muscle perfusion by contrast medium first-pass magnetic resonance imaging: technical feasibility and preliminary experience in healthy volunteers. *Journal of Magnetic Resonance Imaging*, **2004**, 20, 111-21	5.6	27
24	Characterization of dysfunctional myocardium by positron emission tomography and magnetic resonance: relation to functional outcome after revascularization. *Circulation*, **2003**, 108, 1095-100	16.7	141
23	Multislice breath-hold spiral magnetic resonance coronary angiography in patients with coronary artery disease: effect of intravascular contrast medium. *Journal of Magnetic Resonance Imaging*, **2002**, 16, 660-7	5.6	15
22	Laser-Induced Thermotherapy of the Vertebral Body. *Investigative Radiology*, **2002**, 37, 557-561	10.1	6
21	3D contrast-enhanced MR angiography of the run-off vessels: value of image subtraction. *Journal of Magnetic Resonance Imaging*, **2001**, 13, 402-11	5.6	32
20	Magnetic resonance myocardial first-pass perfusion imaging: parameter optimization for signal response and cardiac coverage. *Journal of Magnetic Resonance Imaging*, **2001**, 14, 556-62	5.6	62

19	TE-switched double-contrast enhanced visualization of vascular system and instruments for MR-guided interventions. *Magnetic Resonance in Medicine*, **2000**, 43, 645-8	4.4	17
18	Sensitivity improvement and new acquisition scheme of heteronuclear active-coupling-pattern-tilting spectroscopy. *Journal of Magnetic Resonance*, **2000**, 142, 294-9	3	64
17	Ligating clips for three-dimensional MR angiography at 1.5 T: in vitro evaluation. *Radiology*, **2000**, 214, 902-7	20.5	16
16	Vascular stents as RF antennas for intravascular MR guidance and imaging. *Magnetic Resonance in Medicine*, **1999**, 42, 738-45	4.4	43
15	Synthesis and Characterization of 1,2-Disubstituted Vinylsilanes and Their Geometric Differentiation with 3J(29Si,1H)-Coupling Constants. Application of a Novel Heteronuclear J-Resolved NMR Experiment. *Organometallics*, **1997**, 16, 3128-3134	3.8	9
14	Leonticins D-H, five triterpene saponins from Leontice kiangnanensis. *Phytochemistry*, **1997**, 44, 497-504	4	23
13	HECADE: HMQC- and HSQC-Based 2D NMR Experiments for Accurate and Sensitive Determination of Heteronuclear Coupling Constants from E.COSY-Type Cross Peaks. *Journal of Magnetic Resonance*, **1997**, 124, 383-392	3	83
12	Pure-Phase Homo- and Heteronuclear J Spectra with Tilted Cross Peaks for an Accurate Determination of Coupling Constants. *Journal of Magnetic Resonance*, **1997**, 125, 193-6	3	7
11	Leonticins A-C, three octasaccharide saponins from Leontice kiangnanensis. *Journal of Natural Products*, **1996**, 59, 722-8	4.9	8
10	An Analysis of the Bonding Properties of Benz[a]azulene by X-Ray, NMR, and Computational Studies. *Helvetica Chimica Acta*, **1996**, 79, 837-854	2	9
9	Sensitive Measurement and Unambiguous Assignment of Long-Range13C,13C Coupling Constants at Natural Isotope Abundance. *Journal of Magnetic Resonance Series A*, **1996**, 122, 245-247		15
8	On the stereospecificity of the coenzyme B12-dependent isobutyryl-CoA mutase reaction. *Journal of the American Chemical Society*, **1995**, 117, 11285-11291	16.4	19
7	Glycosylidene Carbenes. Part 18. Insertion of glycosylidene carbenes into the Sn?H bond of tributyl- and triphenylstannane: A synthesis of stannoglycosides. *Helvetica Chimica Acta*, **1994**, 77, 1430-1440	2	7
6	Transition metal NMR spectroscopy. Part XXIII. Rhodium-103 shielding and the stereoselectivity of dihydrogen (H2) addition to diastereomeric olefin complexes. *Journal of the American Chemical Society*, **1993**, 115, 5889-5890	16.4	47
5	Indirect detection of spin-1 nuclei. Application and product-operator description of inverse correlation experiments with InSm spin systems. *Journal of Magnetic Resonance*, **1992**, 100, 243-255		4
4	Coherence pathways and inverse spectroscopy of InSm spin systems. *Journal of Magnetic Resonance*, **1991**, 92, 560-571		10
3	IR, Multinuclear-NMR, and Structural Studies on [WH(CO)2(NO)(PR3)2]: cis-Influence of Phosphorus Ligands on Hydride Character. *Helvetica Chimica Acta*, **1991**, 74, 1194-1204	2	42
2	Characterization of partially deuteriated transition metal polyhydrido complexes by heteronuclear 2D NMR techniques. *Magnetic Resonance in Chemistry*, **1991**, 29, S38-S44	2.1	26