

Dominik Nickel

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,047
citations

26
h-index

41
g-index

121
ext. papers

2,634
ext. citations

5.7
avg. IF

5.34
L-index

#	Paper	IF	Citations
110	Inhomogeneous phases in the Nambu-Dona-Lasinio and quark-meson model. <i>Physical Review D</i> , 2009 , 80,	4.9	148
109	Liver fat quantification using a multi-step adaptive fitting approach with multi-echo GRE imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1353-65	4.4	138
108	Influence of vector interaction and Polyakov loop dynamics on inhomogeneous chiral symmetry breaking phases. <i>Physical Review D</i> , 2010 , 82,	4.9	118
107	How many phases meet at the chiral critical point?. <i>Physical Review Letters</i> , 2009 , 103, 072301	7.4	102
106	Deconstructing holographic liquids. <i>New Journal of Physics</i> , 2011 , 13, 075010	2.9	73
105	CAIPIRINHA-Dixon-TWIST (CDT)-volume-interpolated breath-hold examination (VIBE): a new technique for fast time-resolved dynamic 3-dimensional imaging of the abdomen with high spatial resolution. <i>Investigative Radiology</i> , 2013 , 48, 590-7	10.1	71
104	Quantification of hepatic steatosis with a multistep adaptive fitting MRI approach: prospective validation against MR spectroscopy. <i>American Journal of Roentgenology</i> , 2015 , 204, 297-306	5.4	65
103	Hadronic unquenching effects in the quark propagator. <i>Physical Review D</i> , 2007 , 76,	4.9	58
102	Color superconductivity in the strong-coupling regime of Landau gauge QCD. <i>Physical Review D</i> , 2006 , 73,	4.9	49
101	On Gribov's supercriticality picture of quark confinement. <i>European Physical Journal C</i> , 2009 , 60, 47-61	4.2	44
100	Quark spectral properties above T_c from Dyson-Schwinger equations. <i>European Physical Journal C</i> , 2010 , 70, 1037-1049	4.2	42
99	Volume-assisted estimation of liver function based on Gd-EOB-DTPA-enhanced MR relaxometry. <i>European Radiology</i> , 2016 , 26, 1125-33	8	41
98	Evaluation of 2-point, 3-point, and 6-point Dixon magnetic resonance imaging with flexible echo timing for muscle fat quantification. <i>European Journal of Radiology</i> , 2018 , 103, 57-64	4.7	40
97	Intravoxel incoherent motion diffusion-weighted imaging of pancreatic neuroendocrine tumors: prediction of the histologic grade using pure diffusion coefficient and tumor size. <i>Investigative Radiology</i> , 2014 , 49, 396-402	10.1	40
96	Solitonic ground states in (color) superconductivity. <i>Physical Review D</i> , 2009 , 79,	4.9	40
95	Gd-EOB-DTPA-enhanced MRI for evaluation of liver function: Comparison between signal-intensity-based indices and T1 relaxometry. <i>Scientific Reports</i> , 2017 , 7, 43347	4.9	38
94	Highly accelerated T1-weighted abdominal imaging using 2-dimensional controlled aliasing in parallel imaging results in higher acceleration: a comparison with generalized autocalibrating partially parallel acquisitions parallel imaging. <i>Investigative Radiology</i> , 2013 , 48, 554-61	10.1	38

93	Black holes and nonrelativistic quantum systems. <i>Physical Review Letters</i> , 2009 , 102, 011602	7.4	38
92	Repeatability of Dixon magnetic resonance imaging and magnetic resonance spectroscopy for quantitative muscle fat assessments in the thigh. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018 , 9, 1093-1100	10.3	38
91	Radial volumetric imaging breath-hold examination (VIBE) with k-space weighted image contrast (KWIC) for dynamic gadoxetic acid (Gd-EOB-DTPA)-enhanced MRI of the liver: advantages over Cartesian VIBE in the arterial phase. <i>European Radiology</i> , 2014 , 24, 1290-9	8	33
90	Unlocking of color and flavor in color-superconducting quark matter. <i>Physical Review D</i> , 2006 , 74,	4.9	33
89	Synchrotron radiation in strongly coupled conformal field theories. <i>Physical Review D</i> , 2010 , 81,	4.9	32
88	Clinical evaluation of CAIPIRINHA: comparison against a GRAPPA standard. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 189-94	5.6	31
87	Compressed Sensing for Breast MRI: Resolving the Trade-Off Between Spatial and Temporal Resolution. <i>Investigative Radiology</i> , 2017 , 52, 574-582	10.1	30
86	Ultrafast dynamic contrast-enhanced mri of the breast using compressed sensing: breast cancer diagnosis based on separate visualization of breast arteries and veins. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 97-104	5.6	28
85	Extraction of spectral functions from Dyson-Schwinger studies via the maximum entropy method. <i>Annals of Physics</i> , 2007 , 322, 1949-1960	2.5	28
84	T1 mapping, T2 mapping and MR elastography of the liver for detection and staging of liver fibrosis. <i>Abdominal Radiology</i> , 2020 , 45, 692-700	3	26
83	Results of the 2020 fastMRI Challenge for Machine Learning MR Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 2306-2317	11.7	25
82	T1 mapping for liver function evaluation in gadoxetic acid-enhanced MR imaging: comparison of look-locker inversion recovery and B inhomogeneity-corrected variable flip angle method. <i>European Radiology</i> , 2019 , 29, 3584-3594	8	23
81	Clinical Feasibility of Free-Breathing Dynamic T1-Weighted Imaging With Gadoxetic Acid-Enhanced Liver Magnetic Resonance Imaging Using a Combination of Variable Density Sampling and Compressed Sensing. <i>Investigative Radiology</i> , 2017 , 52, 596-604	10.1	22
80	Optimized Fast Dynamic Contrast-Enhanced Magnetic Resonance Imaging of the Prostate: Effect of Sampling Duration on Pharmacokinetic Parameters. <i>Investigative Radiology</i> , 2016 , 51, 106-12	10.1	21
79	Color-spin locking in a self-consistent Dyson-Schwinger approach. <i>Physical Review D</i> , 2007 , 75,	4.9	21
78	New parameters of ultrafast dynamic contrast-enhanced breast MRI using compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 164-174	5.6	19
77	Improved Liver Diffusion-Weighted Imaging at 3 T Using Respiratory Triggering in Combination With Simultaneous Multislice Acceleration. <i>Investigative Radiology</i> , 2019 , 54, 744-751	10.1	18
76	Gd-EOB-DTPA-enhanced MR relaxometry for the detection and staging of liver fibrosis. <i>Scientific Reports</i> , 2017 , 7, 41429	4.9	17

75	Application of whole-lesion histogram analysis of pharmacokinetic parameters in dynamic contrast-enhanced MRI of breast lesions with the CAIPIRINHA-Dixon-TWIST-VIBE technique. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 91-96	5.6	17
74	Deep learning-accelerated T2-weighted imaging of the prostate: Reduction of acquisition time and improvement of image quality. <i>European Journal of Radiology</i> , 2021 , 137, 109600	4.7	17
73	Dynamic Liver Magnetic Resonance Imaging in Free-Breathing: Feasibility of a Cartesian T1-Weighted Acquisition Technique With Compressed Sensing and Additional Self-Navigation Signal for Hard-Gated and Motion-Resolved Reconstruction. <i>Investigative Radiology</i> , 2017 , 52, 708-714	10.1	16
72	Evaluation of variable flip angle, MOLLI, SASHA, and IR-SNAPSHOT pulse sequences for T relaxometry and extracellular volume imaging of the pancreas and liver. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019 , 32, 559-566	2.8	14
71	Rapid Imaging: Recent Advances in Abdominal MRI for Reducing Acquisition Time and Its Clinical Applications. <i>Korean Journal of Radiology</i> , 2019 , 20, 1597-1615	6.9	14
70	Free-Breathing Dynamic Contrast-Enhanced Imaging of the Upper Abdomen Using a Cartesian Compressed-Sensing Sequence With Hard-Gated and Motion-State-Resolved Reconstruction. <i>Investigative Radiology</i> , 2019 , 54, 728-736	10.1	14
69	Whole-lesion histogram and texture analyses of breast lesions on inline quantitative DCE mapping with CAIPIRINHA-Dixon-TWIST-VIBE. <i>European Radiology</i> , 2020 , 30, 57-65	8	14
68	Feasibility of CAIPIRINHA-Dixon-TWIST-VIBE for dynamic contrast-enhanced MRI of the prostate. <i>European Journal of Radiology</i> , 2015 , 84, 2110-6	4.7	13
67	Simultaneous Multislice Diffusion-Weighted Imaging of the Kidneys at 3 T. <i>Investigative Radiology</i> , 2020 , 55, 233-238	10.1	13
66	Feasibility of test-bolus DCE-MRI using CAIPIRINHA-VIBE for the evaluation of pancreatic malignancies. <i>European Radiology</i> , 2016 , 26, 3949-3956	8	12
65	Pseudoscalar Goldstone bosons in the color-flavor locked phase at moderate densities. <i>Physical Review D</i> , 2007 , 76,	4.9	12
64	Continuous Hepatic Arterial Multiphase Magnetic Resonance Imaging During Free-Breathing. <i>Investigative Radiology</i> , 2018 , 53, 596-601	10.1	11
63	Gd-EOB-DTPA-enhanced T1 relaxometry for assessment of liver function determined by real-time C-methacetin breath test. <i>European Radiology</i> , 2018 , 28, 3591-3600	8	11
62	Self-gated 4D-MRI of the liver: Initial clinical results of continuous multiphase imaging of hepatic enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 459-467	5.6	11
61	Advantages of radial volumetric breath-hold examination (VIBE) with k-space weighted image contrast reconstruction (KWIC) over Cartesian VIBE in liver imaging of volunteers simulating inadequate or no breath-holding ability. <i>European Radiology</i> , 2016 , 26, 2790-7	8	11
60	Diagnostic Confidence and Feasibility of a Deep Learning Accelerated HASTE Sequence of the Abdomen in a Single Breath-Hold. <i>Investigative Radiology</i> , 2021 , 56, 313-319	10.1	11
59	Impact of the Number of Iterations in Compressed Sensing Reconstruction on Ultrafast Dynamic Contrast-enhanced Breast MR Imaging. <i>Magnetic Resonance in Medical Sciences</i> , 2019 , 18, 200-207	2.9	10
58	Accelerating multi-echo water-fat MRI with a joint locally low-rank and spatial sparsity-promoting reconstruction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017 , 30, 189-202	2.8	9

57	Free-breathing fat and R * quantification in the liver using a stack-of-stars multi-echo acquisition with respiratory-resolved model-based reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2592-2605	4.4	9
56	Effect of respiratory motion on free-breathing 3D stack-of-radial liver relaxometry and improved quantification accuracy using self-gating. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1964-1978	4.4	9
55	Usefulness of breath-hold compressed sensing accelerated three-dimensional magnetic resonance cholangiopancreatography (MRCP) added to respiratory-gating conventional MRCP. <i>European Journal of Radiology</i> , 2020 , 122, 108765	4.7	8
54	Accelerated T2-Weighted TSE Imaging of the Prostate Using Deep Learning Image Reconstruction: A Prospective Comparison with Standard T2-Weighted TSE Imaging. <i>Cancers</i> , 2021 , 13,	6.6	8
53	Accurate fatty acid composition estimation of adipose tissue in the abdomen based on bipolar multi-echo MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2330-2346	4.4	8
52	MR elastography, T1 and T2 relaxometry of liver: role in noninvasive assessment of liver function and portal hypertension. <i>Abdominal Radiology</i> , 2020 , 45, 2680-2687	3	8
51	Feasibility of Dixon magnetic resonance imaging to quantify effects of physical training on muscle composition-A pilot study in young and healthy men. <i>European Journal of Radiology</i> , 2019 , 114, 160-166	4.7	7
50	Neutrality of the color-flavor-locked phase in a Dyson-Schwinger approach. <i>Physical Review D</i> , 2008 , 77,	4.9	7
49	Application of a Novel Iterative Denoising and Image Enhancement Technique in T1-Weighted Precontrast and Postcontrast Gradient Echo Imaging of the Abdomen: Improvement of Image Quality and Diagnostic Confidence. <i>Investigative Radiology</i> , 2021 , 56, 328-334	10.1	7
48	Deep Learning-Based Superresolution Reconstruction for Upper Abdominal Magnetic Resonance Imaging: An Analysis of Image Quality, Diagnostic Confidence, and Lesion Conspicuity. <i>Investigative Radiology</i> , 2021 , 56, 509-516	10.1	7
47	Free-Breathing Volumetric Liver and Proton Density Fat Fraction Quantification in Pediatric Patients Using Stack-of-Radial MRI With Self-Gating Motion Compensation. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 118-129	5.6	6
46	Image quality and diagnostic accuracy of complex-averaged high b value images in diffusion-weighted MRI of prostate cancer. <i>Abdominal Radiology</i> , 2019 , 44, 2244-2253	3	5
45	The Effects of Breathing Motion on DCE-MRI Images: Phantom Studies Simulating Respiratory Motion to Compare CAIPIRINHA-VIBE, Radial-VIBE, and Conventional VIBE. <i>Korean Journal of Radiology</i> , 2017 , 18, 289-298	6.9	5
44	Comparison of CAIPIRINHA-VIBE, Radial-VIBE, and conventional VIBE sequences for dynamic contrast-enhanced (DCE) MRI: A validation study using a DCE-MRI phantom. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 638-44	3.3	5
43	Robust Spectral Denoising for Water-Fat Separation in Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2015 , 667-674	0.9	5
42	Native T1 mapping of autoimmune pancreatitis as a quantitative outcome surrogate. <i>European Radiology</i> , 2019 , 29, 4436-4446	8	5
41	A multiparametric approach to diagnosing breast lesions using diffusion-weighted imaging and ultrafast dynamic contrast-enhanced MRI. <i>Magnetic Resonance Imaging</i> , 2020 , 71, 154-160	3.3	5
40	Feasibility and Implementation of a Deep Learning MR Reconstruction for TSE Sequences in Musculoskeletal Imaging. <i>Diagnostics</i> , 2021 , 11,	3.8	5

39	Background parenchymal enhancement and its effect on lesion detectability in ultrafast dynamic contrast-enhanced MRI. <i>European Journal of Radiology</i> , 2020 , 129, 108984	4.7	4
38	Feasibility of free-breathing dynamic contrast-enhanced MRI of the abdomen: a comparison between CAIPIRINHA-VIBE, Radial-VIBE with KWIC reconstruction and conventional VIBE. <i>British Journal of Radiology</i> , 2016 , 89, 20160150	3.4	4
37	Initial Experience of Applying TWIST-Dixon With Flexible View Sharing in Breast DCE-MRI. <i>Clinical Breast Cancer</i> , 2016 , 16, 202-6	3	4
36	A prospective analysis of the diagnostic accuracy of 3 T MRI, CT and endoscopic ultrasound for preoperative T staging of potentially resectable esophageal cancer. <i>Cancer Imaging</i> , 2020 , 20, 64	5.6	4
35	Quantitative pharmacokinetic analysis of high-temporal-resolution dynamic contrast-enhanced MRI to differentiate the normal-appearing pituitary gland from pituitary macroadenoma. <i>Japanese Journal of Radiology</i> , 2020 , 38, 649-657	2.9	3
34	Stability of liver proton density fat fraction and changes in R ² * measurements induced by administering gadoxetic acid at 3T MRI. <i>Abdominal Radiology</i> , 2016 , 41, 1555-64	3	3
33	Development and Evaluation of Deep Learning-Accelerated Single-Breath-Hold Abdominal HASTE at 3 T Using Variable Refocusing Flip Angles. <i>Investigative Radiology</i> , 2021 , 56, 645-652	10.1	3
32	Novel Dynamic Hepatic Magnetic Resonance Imaging Strategy Using Advanced Parallel Acquisition, Rhythmic Breath-Hold Technique, and Gadoxetate Disodium Enhancement. <i>Investigative Radiology</i> , 2016 , 51, 33-40	10.1	3
31	Modulating Diffusion-Weighted Magnetic Resonance Imaging for Screening in Oncologic Tertiary Prevention: A Prospective Ex Vivo and In Vivo Study. <i>Investigative Radiology</i> , 2019 , 54, 704-711	10.1	3
30	Morphological and functional assessment of the uterus: "one-stop shop imaging" using a compressed-sensing accelerated, free-breathing T1-VIBE sequence. <i>Acta Radiologica</i> , 2021 , 62, 695-704 ²		3
29	Simultaneous multi-slice accelerated diffusion-weighted imaging with higher spatial resolution for patients with liver metastases from neuroendocrine tumours. <i>Clinical Radiology</i> , 2021 , 76, 81.e11-81.e19 ^{2.9}		3
28	Effect of a Low-Rank Denoising Algorithm on Quantitative Magnetic Resonance Imaging-Based Measures of Liver Fat and Iron. <i>Journal of Computer Assisted Tomography</i> , 2017 , 41, 412-416	2.2	2
27	Evaluation of hemodynamic imaging findings of hypervascular hepatocellular carcinoma: comparison between dynamic contrast-enhanced magnetic resonance imaging using radial volumetric imaging breath-hold examination with k-space-weighted image contrast reconstruction and dynamic computed tomography during hepatic arteriography. <i>Japanese Journal of Radiology</i> , 2021 , 39, 1-11	2.9	2
26	Deep Learning Applications in Magnetic Resonance Imaging: Has the Future Become Present?. <i>Diagnostics</i> , 2021 , 11,	3.8	2
25	Accelerated single-shot T2-weighted fat-suppressed (FS) MRI of the liver with deep learning-based image reconstruction: qualitative and quantitative comparison of image quality with conventional T2-weighted FS sequence. <i>European Radiology</i> , 2021 , 31, 8447-8457	8	2
24	Effect of hepatic steatosis on native T1 mapping of 3T magnetic resonance imaging in the assessment of T1 values for patients with non-alcoholic fatty liver disease. <i>Magnetic Resonance Imaging</i> , 2021 , 80, 1-8	3.3	2
23	Identification of Water and Fat Images in Dixon MRI Using Aggregated Patch-Based Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 125-132	0.9	2
22	Image Quality Improvement of Dynamic Contrast-Enhanced Gradient Echo Magnetic Resonance Imaging by Iterative Denoising and Edge Enhancement. <i>Investigative Radiology</i> , 2021 , 56, 465-470	10.1	2

21	Evaluation of two-point Dixon water-fat separation for liver specific contrast-enhanced assessment of liver maximum capacity. <i>Scientific Reports</i> , 2018 , 8, 13863	4.9	2
20	Improved accuracy of apparent diffusion coefficient quantification using a fully automatic noise bias compensation method: Preliminary evaluation in prostate diffusion weighted imaging. <i>Journal of Magnetic Resonance</i> , 2019 , 305, 22-30	3	1
19	Evaluation of abdominal hemodynamics through compressed sensing accelerated functional imaging. <i>Magnetic Resonance Imaging</i> , 2020 , 73, 186-191	3.3	1
18	A novel framework for evaluating the image accuracy of dynamic MRI and the application on accelerated breast DCE MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 309-320	2.8	1
17	Studying pion effects in the quark propagator. <i>Progress in Particle and Nuclear Physics</i> , 2008 , 61, 81-83	10.6	1
16	Quantification of contrast agent uptake in the hepatobiliary phase helps to differentiate hepatocellular carcinoma grade. <i>Scientific Reports</i> , 2021 , 11, 22991	4.9	1
15	Impact of Chronic Prostatitis on the PI-RADS Score 3: Proposal for the Addition of a Novel Binary Suffix. <i>Diagnostics</i> , 2021 , 11,	3.8	1
14	T2 mapping in gadoxetic acid-enhanced MRI: utility for predicting decompensation and death in cirrhosis. <i>European Radiology</i> , 2021 , 31, 8376-8387	8	1
13	High-resolution three-dimensional T1-weighted hepatobiliary MR cholangiography using Gd-EOB-DTPA for assessment of biliary tree anatomy: Parallel imaging versus compressed sensing. <i>European Journal of Radiology</i> , 2021 , 136, 109515	4.7	1
12	Single-breath-hold abdominal [Formula: see text] mapping using 3D Cartesian Look-Locker with spatiotemporal sparsity constraints. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 399-414	2.8	1
11	Analysis of a Deep Learning-Based Superresolution Algorithm Tailored to Partial Fourier Gradient Echo Sequences of the Abdomen at 1.5 T: Reduction of Breath-Hold Time and Improvement of Image Quality. <i>Investigative Radiology</i> , 2021 ,	10.1	1
10	Feasibility of an accelerated 2D-multi-contrast knee MRI protocol using deep-learning image reconstruction: a prospective intraindividual comparison with a standard MRI protocol.. <i>European Radiology</i> , 2022 , 1	8	1
9	Quantitative analysis of liver function: 3D variable-flip-angle versus Look-Locker T1 relaxometry in hepatocyte-specific contrast-enhanced liver MRI.. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022 , 12, 2509-2522	3.6	0
8	Deep learning-accelerated T2-weighted imaging of the prostate: Impact of further acceleration with lower spatial resolution on image quality. <i>European Journal of Radiology</i> , 2021 , 145, 110012	4.7	0
7	Ultrafast Dynamic Contrast-Enhanced MRI Using Compressed Sensing: Associations of Early Kinetic Parameters With Prognostic Factors of Breast Cancer. <i>American Journal of Roentgenology</i> , 2021 , 217, 56-63	5.4	0
6	CS-VIBE accelerates cranial nerve MR imaging for the diagnosis of facial neuritis: comparison of the diagnostic performance of post-contrast MPRAGE and CS-VIBE. <i>European Radiology</i> , 2022 , 32, 223-233	8	0
5	Accelerated k-space shift calibration for free-breathing stack-of-radial MRI quantification of liver fat and. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 281-291	4.4	0
4	Inhomogeneous chiral symmetry breaking phases. <i>Physics of Atomic Nuclei</i> , 2012 , 75, 732-734	0.4	

3	Can Dynamic Contrast-enhanced MRI Contribute to Improved Assessment of Rectosigmoid Involvement in Deep Infiltrating Endometriosis?. <i>In Vivo</i> , 2021 , 35, 2217-2226	2.3
2	Intraindividual Comparison of Compressed Sensing-Accelerated Cartesian and Radial Arterial Phase Imaging of the Liver in an Experimental Tumor Model. <i>Investigative Radiology</i> , 2021 , 56, 433-441	10.1
1	Evaluation of liver tumor identification rate of volumetric-interpolated breath-hold images using the compressed sensing method and qualitative evaluation of tumor contrast effect via visual evaluation.. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022 , 12, 2649-2657	3.6