

Daniel K Sodickson

List of Publications by Year in descending order

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241
papers

16,157
citations

18482

62
h-index

18130

120
g-index

247
all docs

247
docs citations

247
times ranked

10164
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous acquisition of spatial harmonics (SMASH): Fast imaging with radiofrequency coil arrays. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 591-603.	3.0	2,093
2	Learning a variational network for reconstruction of accelerated MRI data. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3055-3071.	3.0	996
3	Golden-angle radial sparse parallel MRI: Combination of compressed sensing, parallel imaging, and golden-angle radial sampling for fast and flexible dynamic volumetric MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 707-717.	3.0	527
4	Toward single breath-hold whole-heart coverage coronary MRA using highly accelerated parallel imaging with a 32-channel MR system. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 167-176.	3.0	518
5	Low-rank plus sparse matrix decomposition for accelerated dynamic MRI with separation of background and dynamic components. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1125-1136.	3.0	496
6	Combination of compressed sensing and parallel imaging for highly accelerated first-pass cardiac perfusion MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 767-776.	3.0	456
7	XD-GRASP: Golden-angle radial MRI with reconstruction of extra motion-state dimensions using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 775-788.	3.0	452
8	Comprehensive quantification of signal-to-noise ratio and g -factor for image-based and k -space-based parallel imaging reconstructions. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 895-907.	3.0	348
9	Double-oblique free-breathing high resolution three-dimensional coronary magnetic resonance angiography. <i>Journal of the American College of Cardiology</i> , 1999, 34, 524-531.	2.8	327
10	Default-Mode Network Disruption in Mild Traumatic Brain Injury. <i>Radiology</i> , 2012, 265, 882-892.	7.3	246
11	AUTO-SMASH: A self-calibrating technique for SMASH imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 7, 42-54.	2.0	217
12	A generalized approach to parallel magnetic resonance imaging. <i>Medical Physics</i> , 2001, 28, 1629-1643.	3.0	214
13	Deep-Learning Methods for Parallel Magnetic Resonance Imaging Reconstruction: A Survey of the Current Approaches, Trends, and Issues. <i>IEEE Signal Processing Magazine</i> , 2020, 37, 128-140.	5.6	213
14	Free-Breathing Contrast-Enhanced Multiphase MRI of the Liver Using a Combination of Compressed Sensing, Parallel Imaging, and Golden-Angle Radial Sampling. <i>Investigative Radiology</i> , 2013, 48, 10-16.	6.2	210
15	Compressed sensing for body MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 966-987.	3.4	206
16	Ultimate intrinsic signal-to-noise ratio for parallel MRI: Electromagnetic field considerations. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 1018-1030.	3.0	205
17	Thalamic Resting-State Functional Networks: Disruption in Patients with Mild Traumatic Brain Injury. <i>Radiology</i> , 2011, 260, 831-840.	7.3	189
18	Intravoxel incoherent motion imaging of tumor microenvironment in locally advanced breast cancer. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1437-1447.	3.0	181

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19	Highly accelerated real-time cardiac cine MRI using <i>k</i> - <i>t</i> SPARSESENSE. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 64-74.	3.0	176
20	Self-calibrating parallel imaging with automatic coil sensitivity extraction. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 529-538.	3.0	169
21	Rapid and accurate T_2 mapping from multi-spin-echo data using Bloch-simulation-based reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 809-817.	3.0	167
22	Advancing machine learning for MR image reconstruction with an open competition: Overview of the 2019 fastMRI challenge. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3054-3070.	3.0	154
23	Stochastic Testing Method for Transistor-Level Uncertainty Quantification Based on Generalized Polynomial Chaos. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013, 32, 1533-1545.	2.7	152
24	fastMRI: A Publicly Available Raw <i>k</i> -Space and DICOM Dataset of Knee Images for Accelerated MR Image Reconstruction Using Machine Learning. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190007.	5.8	152
25	Low rank alternating direction method of multipliers reconstruction for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 83-96.	3.0	148
26	Multiparametric imaging with heterogeneous radiofrequency fields. <i>Nature Communications</i> , 2016, 7, 12445.	12.8	144
27	Assessment of the generalization of learned image reconstruction and the potential for transfer learning. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 116-128.	3.0	138
28	Tailored SMASH image reconstructions for robust in vivo parallel MR imaging. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 243-251.	3.0	133
29	Highly parallel volumetric imaging with a 32-element RF coil array. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 869-877.	3.0	133
30	Towards Routine Clinical Use of Radial Stack-of-Stars 3D Gradient-Echo Sequences for Reducing Motion Sensitivity. <i>Journal of the Korean Society of Magnetic Resonance in Medicine</i> , 2014, 18, 87.	0.1	133
31	Evaluation of breast cancer using intravoxel incoherent motion (IVIM) histogram analysis: comparison with malignant status, histological subtype, and molecular prognostic factors. <i>European Radiology</i> , 2016, 26, 2547-2558.	4.5	122
32	Patient-specific 3D printed and augmented reality kidney and prostate cancer models: impact on patient education. <i>3D Printing in Medicine</i> , 2019, 5, 4.	3.1	121
33	Contrast-enhanced 3D MR Angiography with Simultaneous Acquisition of Spatial Harmonics: A Pilot Study. <i>Radiology</i> , 2000, 217, 284-289.	7.3	117
34	Inherently self-calibrating non-cartesian parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1-8.	3.0	116
35	5D whole-heart sparse MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 826-838.	3.0	112
36	An introduction to coil array design for parallel MRI. <i>NMR in Biomedicine</i> , 2006, 19, 300-315.	2.8	105

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37	Articular Cartilage: In Vivo Diffusion-Tensor Imaging. <i>Radiology</i> , 2012, 262, 550-559.	7.3	103
38	Accelerated phase-contrast cine MRI using <i>k</i> -SPARSESENSE. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1054-1064.	3.0	103
39	3D printed renal cancer models derived from MRI data: application in pre-surgical planning. <i>Abdominal Radiology</i> , 2017, 42, 1501-1509.	2.1	103
40	Electrodynamic constraints on homogeneity and radiofrequency power deposition in multiple coil excitations. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 315-334.	3.0	100
41	Ideal current patterns yielding optimal signal-to-noise ratio and specific absorption rate in magnetic resonance imaging: Computational methods and physical insights. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 286-304.	3.0	98
42	Joint MR-PET Reconstruction Using a Multi-Channel Image Regularizer. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1-16.	8.9	98
43	Comparison of fitting methods and <i>b</i> -value sampling strategies for intravoxel incoherent motion in breast cancer. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1077-1085.	3.0	95
44	Using Deep Learning to Accelerate Knee MRI at 3 T: Results of an Interchangeability Study. <i>American Journal of Roentgenology</i> , 2020, 215, 1421-1429.	2.2	95
45	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1009-1022.	3.0	93
46	Respiratory Motion-Resolved Compressed Sensing Reconstruction of Free-Breathing Radial Acquisition for Dynamic Liver Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2015, 50, 749-756.	6.2	93
47	SMASH IMAGING. <i>Magnetic Resonance Imaging Clinics of North America</i> , 1999, 7, 237-254.	1.1	91
48	3Parallel magnetic resonance imaging with adaptive radius <i>k</i> -space (PARS): Constrained image reconstruction using <i>k</i> -space locality in radiofrequency coil encoded data. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1383-1392.	3.0	89
49	Broad band dipolar recoupling in the nuclear magnetic resonance of rotating solids. <i>Journal of Chemical Physics</i> , 1993, 98, 6742-6748.	3.0	87
50	Dynamic contrast-enhanced MRI of the prostate with high spatiotemporal resolution using compressed sensing, parallel imaging, and continuous golden-angle radial sampling: Preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1365-1373.	3.4	83
51	Characterization of a dielectric phantom for high-field magnetic resonance imaging applications. <i>Medical Physics</i> , 2014, 41, 102303.	3.0	80
52	A high-impedance detector-array glove for magnetic resonance imaging of the hand. <i>Nature Biomedical Engineering</i> , 2018, 2, 570-577.	22.5	80
53	Value of MRI in medicine: More than just another test?. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, e14-e25.	3.4	78
54	Spontaneous brain activity in combat related PTSD. <i>Neuroscience Letters</i> , 2013, 547, 1-5.	2.1	76

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55	Enabling High-Dimensional Hierarchical Uncertainty Quantification by ANOVA and Tensor-Train Decomposition. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 63-76.	2.7	75
56	Four-dimensional respiratory motion-resolved whole heart coronary MR angiography. Magnetic Resonance in Medicine, 2017, 77, 1473-1484.	3.0	74
57	A Piecewise-Linear Moment-Matching Approach to Parameterized Model-Order Reduction for Highly Nonlinear Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2007, 26, 2116-2129.	2.7	73
58	Shortening MR Image Acquisition Time for Volumetric Interpolated Breath-hold Examination with a Recently Developed Parallel Imaging Reconstruction Technique: Clinical Feasibility. Radiology, 2004, 230, 589-594.	7.3	71
59	Rapid Volumetric MRI Using Parallel Imaging With Order-of-Magnitude Accelerations and a 32-Element RF Coil Array. Academic Radiology, 2005, 12, 626-635.	2.5	67
60	Accelerated cardiac T_2 mapping using breath-hold multiecho fast spin-echo pulse sequence with k-FOCUSS. Magnetic Resonance in Medicine, 2011, 65, 1661-1669.	3.0	67
61	Toward 20T magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 617-639.	2.0	66
62	Dependence of and field patterns of surface coils on the electrical properties of the sample and the MR operating frequency. Concepts in Magnetic Resonance Part B, 2016, 46, 25-40.	0.7	66
63	Recent advances in image reconstruction, coil sensitivity calibration, and coil array design for SMASH and generalized parallel MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 13, 158-163.	2.0	64
64	Toward cardiovascular MRI at 7 T: clinical needs, technical solutions and research promises. European Radiology, 2010, 20, 2806-2816.	4.5	62
65	The ultimate signal-to-noise ratio in realistic body models. Magnetic Resonance in Medicine, 2017, 78, 1969-1980.	3.0	61
66	High-resolution human cervical spinal cord imaging at 7T. NMR in Biomedicine, 2012, 25, 891-899.	2.8	59
67	Parallel imaging in cardiovascular MRI: methods and applications. NMR in Biomedicine, 2006, 19, 325-341.	2.8	58
68	Free-breathing volumetric fat/water separation by combining radial sampling, compressed sensing, and parallel imaging. Magnetic Resonance in Medicine, 2017, 78, 565-576.	3.0	57
69	Noninvasive quantification of intracellular sodium in human brain using ultrahigh-field MRI. NMR in Biomedicine, 2013, 26, 9-19.	2.8	55
70	Accelerated Cardiac Imaging Using the SMASH Technique. Journal of Cardiovascular Magnetic Resonance, 1999, 1, 153-157.	3.3	54
71	System and SAR characterization in parallel RF transmission. Magnetic Resonance in Medicine, 2012, 67, 1367-1378.	3.0	54
72	Performance evaluation of a 32-element head array with respect to the ultimate intrinsic SNR. NMR in Biomedicine, 2010, 23, 142-151.	2.8	53

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73	32-element receiver-coil array for cardiac imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1142-1149.	3.0	52
74	Magnetization transfer in magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 128-141.	3.0	52
75	Design of a nested eight-channel sodium and four-channel proton coil for 7T knee imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 259-268.	3.0	51
76	Approaching ultimate intrinsic signal-to-noise ratio with loop and dipole antennas. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1789-1803.	3.0	49
77	AUTO-SMASH: A self-calibrating technique for SMASH imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 7, 42-54.	2.0	48
78	GrappaNet: Combining Parallel Imaging With Deep Learning for Multi-Coil MRI Reconstruction. , 2020, ,		47
79	Effects of inductive coupling on parallel MR image reconstructions. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 628-639.	3.0	46
80	Compact Modeling of Nonlinear Analog Circuits Using System Identification via Semidefinite Programming and Incremental Stability Certification. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2010, 29, 1149-1162.	2.7	46
81	Highly accelerated cardiovascular MR imaging using many channel technology: concepts and clinical applications. <i>European Radiology</i> , 2008, 18, 87-102.	4.5	45
82	A versatile flow phantom for intravoxel incoherent motion MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1710-1720.	3.0	45
83	Recent advances in image reconstruction, coil sensitivity calibration, and coil array design for SMASH and generalized parallel MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 13, 158-163.	2.0	44
84	Accelerated and motion-robust in vivo T2 mapping from radially undersampled data using bloch-simulation-based iterative reconstruction. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1346-1354.	3.0	44
85	Lumped-element planar strip array (LPSA) for parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 172-183.	3.0	43
86	Interstitial fluid pressure correlates with intravoxel incoherent motion imaging metrics in a mouse mammary carcinoma model. <i>NMR in Biomedicine</i> , 2012, 25, 787-794.	2.8	43
87	A Quasi-Convex Optimization Approach to Parameterized Model Order Reduction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2008, 27, 456-469.	2.7	41
88	Approaching ultimate intrinsic $\langle \text{SNR} \rangle$ in a uniform spherical sample with finite arrays of loop coils. <i>Concepts in Magnetic Resonance Part B</i> , 2014, 44, 53-65.	0.7	39
89	A model-based reconstruction for undersampled radial spin-echo DTI with variational penalties on the diffusion tensor. <i>NMR in Biomedicine</i> , 2015, 28, 353-366.	2.8	39
90	Exploring the sensitivity of magnetic resonance fingerprinting to motion. <i>Magnetic Resonance Imaging</i> , 2018, 54, 241-248.	1.8	39

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91	MRI of the hip at 7T: Feasibility of bone microarchitecture, high-resolution cartilage, and clinical imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1384-1393.	3.4	36
92	Simultaneous Evaluation of Lung Anatomy and Ventilation Using 4D Respiratoryâ€Motionâ€Resolved Ultrashort Echo Time Sparse MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 411-422.	3.4	35
93	Training a neural network for Gibbs and noise removal in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 413-428.	3.0	35
94	Fast Electromagnetic Analysis of MRI Transmit RF Coils Based on Accelerated Integral Equation Methods. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2250-2261.	4.2	34
95	Guaranteed stable projection-based model reduction for indefinite and unstable linear systems. , 2008, , .		33
96	Whole body traveling wave magnetic resonance imaging at high field strength: Homogeneity, efficiency, and energy deposition as compared with traditional excitation mechanisms. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1183-1193.	3.0	33
97	RACERâ€GRASP: Respiratoryâ€weighted, aortic contrast enhancementâ€guided and coilâ€unstrengthening goldenâ€angle radial sparse MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 77-89.	3.0	33
98	Phase-constrained parallel MR image reconstruction. <i>Journal of Magnetic Resonance</i> , 2005, 176, 187-198.	2.1	32
99	Influence of temporal regularization and radial undersampling factor on compressed sensing reconstruction in dynamic contrast enhanced MRI of the breast. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 261-269.	3.4	32
100	Intravoxel incoherent motion (IVIM) histogram biomarkers for prediction of neoadjuvant treatment response in breast cancer patients. <i>European Journal of Radiology Open</i> , 2017, 4, 101-107.	1.6	32
101	Coil-by-coil image reconstruction with SMASH. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 619-623.	3.0	31
102	Maximum efficiency radiofrequency shimming: Theory and initial application for hip imaging at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1379-1388.	3.0	31
103	SMASH imaging with an eight element multiplexed RF coil array. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000, 10, 93-104.	2.0	30
104	Superiority of prone position in free-breathing 3D coronary MRA in patients with coronary disease. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 185-191.	3.4	29
105	Calculation of Generalized Polynomial-Chaos Basis Functions and Gauss Quadrature Rules in Hierarchical Uncertainty Quantification. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014, 33, 728-740.	2.7	29
106	Single acquisition electrical property mapping based on relative coil sensitivities: A proofâ€ofâ€concept demonstration. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 185-195.	3.0	29
107	Stochastic simulation and robust design optimization of integrated photonic filters. <i>Nanophotonics</i> , 2017, 6, 299-308.	6.0	29
108	Improved detection of fMRI activation in the cerebellum at 7T with dielectric pads extending the imaging region of a commercial head coil. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 431-440.	3.4	29

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109	Noninvasive Estimation of Electrical Properties From Magnetic Resonance Measurements via Global Maxwell Tomography and Match Regularization. IEEE Transactions on Biomedical Engineering, 2020, 67, 3-15.	4.2	29
110	The Impact of the COVID-19 Pandemic on the Radiology Research Enterprise: Radiology Scientific Expert Panel. Radiology, 2020, 296, E134-E140.	7.3	29
111	A capacitance solver for incremental variation-aware extraction. , 2008, , .		28
112	Parametric analysis of the spatial resolution and signal-to-noise ratio in super-resolved spatiotemporally encoded (SPEN) MRI. Magnetic Resonance in Medicine, 2014, 72, 418-429.	3.0	28
113	Spin diffusion on a lattice: Classical simulations and spin coherent states. Physical Review B, 1995, 52, 6467-6479.	3.2	27
114	A flexible nested sodium and proton coil array with wideband matching for knee cartilage MRI at 3T. Magnetic Resonance in Medicine, 2016, 76, 1325-1334.	3.0	27
115	Transverse slot antennas for high field MRI. Magnetic Resonance in Medicine, 2018, 80, 1233-1242.	3.0	27
116	Effects of anatomical differences on electromagnetic fields, <sc>SAR</sc>, and temperature change. Concepts in Magnetic Resonance Part B, 2016, 46, 8-18.	0.7	26
117	A multicoil array designed for cardiac SMASH imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 105-113.	2.0	25
118	Model Reduction and Simulation of Nonlinear Circuits via Tensor Decomposition. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1059-1069.	2.7	25
119	Breast MRI at 7 Tesla with a bilateral coil and T1-weighted acquisition with robust fat suppression: image evaluation and comparison with 3 Tesla. European Radiology, 2013, 23, 2969-2978.	4.5	24
120	Method for in situ characterization of radiofrequency heating in parallel transmit MRI. Magnetic Resonance in Medicine, 2013, 69, 1457-1465.	3.0	22
121	Breast MRI at 7 Tesla with a bilateral coil and robust fat suppression. Journal of Magnetic Resonance Imaging, 2014, 39, 540-549.	3.4	22
122	Radiofrequency energy deposition and radiofrequency power requirements in parallel transmission with increasing distance from the coil to the sample. Magnetic Resonance in Medicine, 2016, 75, 423-432.	3.0	22
123	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. International Journal of Hyperthermia, 2018, 34, 87-100.	2.5	22
124	Accuracy and precision of quantitative DCE-MRI parameters: How should one estimate contrast concentration?. Magnetic Resonance Imaging, 2018, 52, 16-23.	1.8	22
125	Hybrid-state free precession in nuclear magnetic resonance. Communications Physics, 2019, 2, .	5.3	22
126	Superresolution parallel magnetic resonance imaging: Application to functional and spectroscopic imaging. NeuroImage, 2009, 47, 220-230.	4.2	21

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127	Design and Application of Combined 8-Channel Transmit and 10-Channel Receive Arrays and Radiofrequency Shimming for 7-T Shoulder Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2014, 49, 35-47.	6.2	21
128	New rapid, accurate T2 quantification detects pathology in normal-appearing brain regions of relapsing-remitting MS patients. <i>NeuroImage: Clinical</i> , 2017, 14, 363-370.	2.7	21
129	Optimized quantification of spin relaxation times in the hybrid state. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1385-1397.	3.0	21
130	pFFT in FastMaxwell: A Fast Impedance Extraction Solver for 3D Conductor Structures over Substrate. <i>IEEE Transactions on Advanced Packaging</i> , 2007, , .		20
131	A Markov Chain Based Hierarchical Algorithm for Fabric-Aware Capacitance Extraction. <i>IEEE Transactions on Advanced Packaging</i> , 2010, 33, 818-827.	1.6	20
132	Concentric coil arrays for parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1248-1260.	3.0	19
133	Variation-aware interconnect extraction using statistical moment preserving model order reduction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2010, , .		19
134	Stochastic testing simulator for integrated circuits and MEMS: Hierarchical and sparse techniques. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014, , .		19
135	Simultaneous proton magnetic resonance fingerprinting and sodium MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2232-2242.	3.0	19
136	Improved spatial harmonic selection for SMASH image reconstructions. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 831-836.	3.0	18
137	Perspectives on Body MR Imaging at Ultrahigh Field. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2007, 15, 449-465.	1.1	18
138	Specific absorption rate benefits of including measured electric field interactions in parallel excitation pulse design. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 164-174.	3.0	18
139	Towards a five-minute comprehensive cardiac MR examination using highly accelerated parallel imaging with a 32-element coil array: Feasibility and initial comparative evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 180-188.	3.4	18
140	The "Loopole" Antenna: A Hybrid Coil Combining Loop and Electric Dipole Properties for Ultra-High-Field MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2020, 2020, 1-9.	0.7	18
141	Size-adaptable "Trellis" structure for tailored MRI coil arrays. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3406-3415.	3.0	17
142	Extended para-hydrogenation monitored by NMR spectroscopy. <i>Chemical Communications</i> , 2011, 47, 958-960.	4.1	16
143	Comparison of contrast enhancement and diffusion-weighted magnetic resonance imaging in healthy and cancerous breast tissue. <i>European Journal of Radiology</i> , 2015, 84, 1888-1893.	2.6	16
144	Medical Imaging and Privacy in the Era of Artificial Intelligence: Myth, Fallacy, and the Future. <i>Journal of the American College of Radiology</i> , 2020, 17, 1159-1162.	1.8	16

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145	Metasurface Matching Layers for Enhanced Electric Field Penetration Into the Human Body. IEEE Access, 2020, 8, 197745-197756.	4.2	16
146	The brain after COVID-19: Compensatory neurogenesis or persistent neuroinflammation?. EclinicalMedicine, 2021, 31, 100684.	7.1	16
147	A workflow to generate patient-specific three-dimensional augmented reality models from medical imaging data and example applications in urologic oncology. 3D Printing in Medicine, 2021, 7, 34.	3.1	16
148	Stabilizing schemes for piecewise-linear reduced order models via projection and weighting functions. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007, , .	0.0	15
149	Combination of compressed sensing and parallel imaging with respiratory motion correction for highly-accelerated cardiac perfusion MRI. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	15
150	Diagnostic abdominal MR imaging on a prototype low-field 0.55T scanner operating at two different gradient strengths. Abdominal Radiology, 2021, 46, 5772-5780.	2.1	15
151	Hybrid T ₂ - and T ₁ -weighted radial acquisition for free-breathing abdominal examination. Magnetic Resonance in Medicine, 2018, 80, 1935-1948.	3.0	14
152	A New Method for Cartilage Evaluation in Femoroacetabular Impingement Using Quantitative T2 Magnetic Resonance Imaging: Preliminary Validation against Arthroscopic Findings. Cartilage, 2019, , 194760351987085.	2.7	14
153	Single breathhold noncontrast thoracic MRA using highly accelerated parallel imaging with a 32-element coil array. Journal of Magnetic Resonance Imaging, 2012, 35, 963-968.	3.4	13
154	A method for safety testing of radiofrequency/microwave-emitting devices using MRI. Magnetic Resonance in Medicine, 2015, 74, 1397-1405.	3.0	13
155	Magnetic-Resonance-Based Electrical Property Mapping Using Global Maxwell Tomography With an 8-Channel Head Coil at 7 Tesla: A Simulation Study. IEEE Transactions on Biomedical Engineering, 2021, 68, 236-246.	4.2	13
156	Continuation-Based Pull-In and Lift-Off Simulation Algorithms for Microelectromechanical Devices. Journal of Microelectromechanical Systems, 2014, 23, 1084-1093.	2.5	12
157	Comprehensive Dynamic Contrast-Enhanced 3D Magnetic Resonance Imaging of the Breast With Fat/Water Separation and High Spatiotemporal Resolution Using Radial Sampling, Compressed Sensing, and Parallel Imaging. Investigative Radiology, 2017, 52, 583-589.	6.2	12
158	A Cholesky-Based SGM-MLFMM for Stochastic Full-Wave Problems Described by Correlated Random Variables. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 776-779.	4.0	12
159	Passive reduced order modeling of multiport interconnects via semidefinite programming. , 2010, , .		11
160	Exploiting sparsity to accelerate noncontrast MR angiography in the context of parallel imaging. Magnetic Resonance in Medicine, 2012, 67, 1391-1400.	3.0	11
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