

Daniel K Sodickson

List of Publications by Year in descending order

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Version: 2024-02-01

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	A Hybrid Volume-Surface Integral Equation Method for Rapid Electromagnetic Simulations in MRI. IEEE Transactions on Biomedical Engineering, 2023, 70, 105-114.	4.2	2
2	Compression of Volume-Surface Integral Equation Matrices via Tucker Decomposition for Magnetic Resonance Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 459-471.	5.1	10
3	Network Topology Invariant Stability Certificates for DC Microgrids With Arbitrary Load Dynamics. IEEE Transactions on Power Systems, 2022, 37, 1782-1797.	6.5	1
4	Generalized Bloch model: A theory for pulsed magnetization transfer. Magnetic Resonance in Medicine, 2022, 87, 2003-2017.	3.0	8
5	Accelerated Probabilistic Power Flow in Electrical Distribution Networks via Model Order Reduction and Neumann Series Expansion. IEEE Transactions on Power Systems, 2022, 37, 2151-2163.	6.5	10
6	A Hybrid Algorithm for Parameter Estimation (HAPE) for Diesel Generator Sets. IEEE Transactions on Energy Conversion, 2022, , 1-1.	5.2	0
7	Twenty-four channel high impedance glove array for hand and wrist MRI at 3T. Magnetic Resonance in Medicine, 2022, 87, 2566-2575.	3.0	6
8	Simultaneous 3D acquisition of ^1H MRF and ^{23}Na MRI. Magnetic Resonance in Medicine, 2022, 87, 2299-2312.	3.0	4
9	Differences between human and machine perception in medical diagnosis. Scientific Reports, 2022, 12, 6877.	3.3	8
10	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
11	Training a neural network for Gibbs and noise removal in diffusion MRI. Magnetic Resonance in Medicine, 2021, 85, 413-428.	3.0	35
12	Free-breathing radial imaging using a pilot-tone radiofrequency transmitter for detection of respiratory motion. Magnetic Resonance in Medicine, 2021, 85, 2672-2685.	3.0	11
13	The brain after COVID-19: Compensatory neurogenesis or persistent neuroinflammation?. EclinicalMedicine, 2021, 31, 100684.	7.1	16
14	Handling Initial Conditions in Vector Fitting for Real Time Modeling of Power System Dynamics. Energies, 2021, 14, 2471.	3.1	5
15	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
16	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
17	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
18	Simultaneous proton magnetic resonance fingerprinting and sodium MRI. Magnetic Resonance in Medicine, 2020, 83, 2232-2242.	3.0	19

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19	Magnetization transfer in magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 128-141.	3.0	52
20	MRI guided procedure planning and 3D simulation for partial gland cryoablation of the prostate: a pilot study. <i>3D Printing in Medicine</i> , 2020, 6, 33.	3.1	3
21	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
22	GrappaNet: Combining Parallel Imaging With Deep Learning for Multi-Coil MRI Reconstruction. , 2020, , .		47
23	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
24	Metasurface Matching Layers for Enhanced Electric Field Penetration Into the Human Body. <i>IEEE Access</i> , 2020, 8, 197745-197756.	4.2	16
25	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
26	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
27	The Impact of the COVID-19 Pandemic on the Radiology Research Enterprise: Radiology Scientific Expert Panel. <i>Radiology</i> , 2020, 296, E134-E140.	7.3	29
28	fastMRI: A Publicly Available Raw k-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
29	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
30	Improvement of SNR in MRgFUS with strategic design of bath medium and transducer ground plane. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
31	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
32	Value of MRI in medicine: More than just another test?. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, e14-e25.	3.4	78
33	Image reconstruction for interrupted-beam x-ray CT on diagnostic clinical scanners. <i>Physics in Medicine and Biology</i> , 2019, 64, 155007.	3.0	9
34	A New Method for Cartilage Evaluation in Femoroacetabular Impingement Using Quantitative T2 Magnetic Resonance Imaging: Preliminary Validation against Arthroscopic Findings. <i>Cartilage</i> , 2019, , 194760351987085.	2.7	14
35	Resonate: Reflections and recommendations on implicit biases within the ISMRM. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1509-1511.	3.4	1
36	Hybrid-state free precession in nuclear magnetic resonance. <i>Communications Physics</i> , 2019, 2, .	5.3	22

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37	Optimized quantification of spin relaxation times in the hybrid state. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1385-1397.	3.0	21
38	SparseCT: System concept and design of multislit collimators. <i>Medical Physics</i> , 2019, 46, 2589-2599.	3.0	6
39	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
40	Global Maxwell Tomography using an 8-channel radiofrequency coil: simulation results for a tissue-mimicking phantom at 7T. , 2019, , .		2
41	Sizeâ€‘adaptable â€‘Trellisâ€‘structure for tailored MRI coil arrays. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3406-3415.	3.0	17
42	Disentangling the effects of high permittivity materials on signal optimization and sample noise reduction via ideal current patterns. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2746-2758.	3.0	7
43	Population net benefit of prostate MRI with high spatiotemporal resolution contrastâ€‘enhanced imaging: A decision curve analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1400-1408.	3.4	4
44	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
45	An analytic expression for the ultimate intrinsic SNR in a uniform sphere. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2256-2266.	3.0	9
46	Hybrid T_{2^*} - and T_1 -weighted radial acquisition for freeâ€‘breathing abdominal examination. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1935-1948.	3.0	14
47	A highly decoupled transmitâ€‘receive array design with triangular elements at $7T$. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2267-2274.	3.0	11
48	Transverse slot antennas for high field MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1233-1242.	3.0	27
49	Variation-Aware Modeling of Integrated Capacitors Based on Floating Random Walk Extraction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018, 37, 2180-2184.	2.7	11
50	Approaching ultimate intrinsic specific absorption rate in radiofrequency shimming using highâ€‘permittivity materials at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 391-399.	3.0	11
51	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
52	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. <i>International Journal of Hyperthermia</i> , 2018, 34, 87-100.	2.5	22
53	5D wholeâ€‘heart sparse MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 826-838.	3.0	112
54	Low rank alternating direction method of multipliers reconstruction for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 83-96.	3.0	148

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55	Approaching ultimate intrinsic signal-to-noise ratio with loop and dipole antennas. Magnetic Resonance in Medicine, 2018, 79, 1789-1803.	3.0	49
56	RACER-GRASP: Respiratory-weighted, aortic contrast enhancement-guided and coil-unstreaking golden-angle radial sparse MRI. Magnetic Resonance in Medicine, 2018, 80, 77-89.	3.0	33
57	Learning a variational network for reconstruction of accelerated MRI data. Magnetic Resonance in Medicine, 2018, 79, 3055-3071.	3.0	996
58	Manipulating transmit and receive sensitivities of radiofrequency surface coils using shielded and unshielded high-permittivity materials. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 355-366.	2.0	11
59	A method to assess the loss of a dipole antenna for ultra-high-field MRI. Magnetic Resonance in Medicine, 2018, 79, 1773-1780.	3.0	9
60	Design of Matching Layers for Increasing the Electrical Field Penetration inside Human Tissue. , 2018, , .		0
61	Exploring the sensitivity of magnetic resonance fingerprinting to motion. Magnetic Resonance Imaging, 2018, 54, 241-248.	1.8	39
62	Variational Deep Learning for Low-Dose Computed Tomography. , 2018, , .		5
63	Accuracy and precision of quantitative DCE-MRI parameters: How should one estimate contrast concentration?. Magnetic Resonance Imaging, 2018, 52, 16-23.	1.8	22
64	A high-impedance detector-array glove for magnetic resonance imaging of the hand. Nature Biomedical Engineering, 2018, 2, 570-577.	22.5	80
65	Exploiting Oscillator Arrays As Randomness Sources for Cryptographic Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 2999-3007.	2.7	2
66	Evaluation of SparseCT on patient data using realistic undersampling models. , 2018, , .		2
67	Four-dimensional respiratory motion-resolved whole heart coronary MR angiography. Magnetic Resonance in Medicine, 2017, 77, 1473-1484.	3.0	74
68	Joint MR-PET Reconstruction Using a Multi-Channel Image Regularizer. IEEE Transactions on Medical Imaging, 2017, 36, 1-16.	8.9	98
69	3D printed renal cancer models derived from MRI data: application in pre-surgical planning. Abdominal Radiology, 2017, 42, 1501-1509.	2.1	103
70	SparseCT: interrupted-beam acquisition and sparse reconstruction for radiation dose reduction. Proceedings of SPIE, 2017, , .	0.8	10
71	New rapid, accurate T2 quantification detects pathology in normal-appearing brain regions of relapsing-remitting MS patients. NeuroImage: Clinical, 2017, 14, 363-370.	2.7	21
72	Stochastic simulation and robust design optimization of integrated photonic filters. Nanophotonics, 2017, 6, 299-308.	6.0	29

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73	The ultimate signal-to-noise ratio in realistic body models. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1969-1980.	3.0	61
74	Compressed sensing for body MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 966-987.	3.4	206
75	Adaptive bulk motion exclusion for improved robustness of abdominal magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2017, 30, e3830.	2.8	9
76	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
77	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. <i>Investigative Radiology</i> , 2017, 52, 583-589.	6.2	12
78	Mitigation of B1+ inhomogeneity using spatially selective excitation with jointly designed quadratic spatial encoding magnetic fields and RF shimming. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 577-587.	3.0	1
79	Free-breathing volumetric fat/water separation by combining radial sampling, compressed sensing, and parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 565-576.	3.0	57
80	A Cholesky-Based SGM-MLFMM for Stochastic Full-Wave Problems Described by Correlated Random Variables. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 776-779.	4.0	12
81	29-Channel receive-only dense dipole head array for 7T MRI. , 2017, , .		9
82	Introductory Magnetic Resonance Imaging Physics. , 2016, , 157-166.		0
83	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
84	General design approach and practical realization of decoupling matrices for parallel transmission coils. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 329-339.	3.0	8
85	A flexible nested sodium and proton coil array with wideband matching for knee cartilage MRI at 3T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1325-1334.	3.0	27
86	Global Maxwell tomography: A novel technique for electrical properties mapping based on MR measurements and volume integral equation formulations. , 2016, , .		10
87	MP19-19 AN ANALYSIS OF THE EFFECT OF 3D PRINTED RENAL CANCER MODELS ON SURGICAL PLANNING. <i>Journal of Urology</i> , 2016, 195, .	0.4	0
88	Toward 20T magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 617-639.	2.0	66
89	Heat equation inversion framework for average SAR calculation from magnetic resonance thermal imaging. <i>Bioelectromagnetics</i> , 2016, 37, 493-503.	1.6	9
90	Effects of anatomical differences on electromagnetic fields, SAR, and temperature change. <i>Concepts in Magnetic Resonance Part B</i> , 2016, 46, 8-18.	0.7	26

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91	Dependence of and field patterns of surface coils on the electrical properties of the sample and the operating frequency. Concepts in Magnetic Resonance Part B, 2016, 46, 25-40.	0.7	66
92	XD-GRASP: Golden-angle radial MRI with reconstruction of extra motion-state dimensions using compressed sensing. Magnetic Resonance in Medicine, 2016, 75, 775-788.	3.0	452
93	Multiparametric imaging with heterogeneous radiofrequency fields. Nature Communications, 2016, 7, 12445.	12.8	144
94	Utility of rapid prototyping in Complex DORV: does it alter management decisions?. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P175.	3.3	1
95	Whole heart self-navigated 3D radial MRI for the creation of virtual 3D models in congenital heart disease. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P185.	3.3	3
96	Fast Electromagnetic Analysis of MRI Transmit RF Coils Based on Accelerated Integral Equation Methods. IEEE Transactions on Biomedical Engineering, 2016, 63, 2250-2261.	4.2	34
97	Influence of temporal regularization and radial undersampling factor on compressed sensing reconstruction in dynamic contrast enhanced MRI of the breast. Journal of Magnetic Resonance Imaging, 2016, 43, 261-269.	3.4	32
98	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
99	Evaluation of breast cancer using intravoxel incoherent motion (IVIM) histogram analysis: comparison with malignant status, histological subtype, and molecular prognostic factors. European Radiology, 2016, 26, 2547-2558.	4.5	122
100	CAPLET: A Highly Parallelized Field Solver for Capacitance Extraction Using Instantiable Basis Functions. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 458-470.	2.7	1
101	STAVES: Speedy tensor-aided Volterra-based electronic simulator. , 2015, , .		1
102	Design and construction of a tissue-mimicking phantom to validate electrical properties mapping techniques based on magnetic resonance. , 2015, , .		1
103	Simultaneous PET-MRI reconstruction with vectorial second order total generalized variation. , 2015, , .		3
104	Single acquisition electrical property mapping based on relative coil sensitivities: A proof-of-concept demonstration. Magnetic Resonance in Medicine, 2015, 74, 185-195.	3.0	29
105	A method for safety testing of radiofrequency/microwave-emitting devices using MRI. Magnetic Resonance in Medicine, 2015, 74, 1397-1405.	3.0	13
106	Effect of an annular sleeve of high permittivity material on resonant modes and homogeneity of a birdcage coil. , 2015, , .		0
107	Comparison of fitting methods and b-value sampling strategies for intravoxel incoherent motion in breast cancer. Magnetic Resonance in Medicine, 2015, 74, 1077-1085.	3.0	95
108	Respiratory Motion-Resolved Compressed Sensing Reconstruction of Free-Breathing Radial Acquisition for Dynamic Liver Magnetic Resonance Imaging. Investigative Radiology, 2015, 50, 749-756.	6.2	93

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109	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
110	A wearable physiological hydration monitoring wristband through multi-path non-contact dielectric spectroscopy in the microwave range. , 2015, , .		6
111	Rapid free-breathing dynamic contrast-enhanced MRI using motion-resolved compressed sensing. , 2015, , .		0
112	Enabling High-Dimensional Hierarchical Uncertainty Quantification by ANOVA and Tensor-Train Decomposition. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2015, 34, 63-76.	2.7	75
113	The rapid imaging renaissance: sparser samples, denser dimensions, and glimmerings of a grand unified tomography. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
114	Model Reduction and Simulation of Nonlinear Circuits via Tensor Decomposition. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2015, 34, 1059-1069.	2.7	25
115	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
116	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
117	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
118	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
119	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
120	Maximum-Entropy Density Estimation for MRI Stochastic Surrogate Models. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 1656-1659.	4.0	2
121	Efficient Localization Methods for Passivity Enforcement of Linear Dynamical Models. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014, 33, 1328-1341.	2.7	6
122	Characterization of a dielectric phantom for high-field magnetic resonance imaging applications. <i>Medical Physics</i> , 2014, 41, 102303.	3.0	80
123	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
124	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
125	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
126	Parametric analysis of the spatial resolution and signal-to-noise ratio in super-resolved spatiotemporally encoded (SPEN) MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 418-429.	3.0	28

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127	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
128	Stochastic testing simulator for integrated circuits and MEMS: Hierarchical and sparse techniques. , 2014, , .		19
129	Design and Application of Combined 8-Channel Transmit and 10-Channel Receive Arrays and Radiofrequency Shimming for 7-T Shoulder Magnetic Resonance Imaging. Investigative Radiology, 2014, 49, 35-47.	6.2	21
130	Synchronized cardiac and respiratory sparsity for rapid free-breathing cardiac cine MRI. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W26.	3.3	2
131	Compressed sensing with synchronized cardio-respiratory sparsity for free-breathing cine MRI: initial comparative study on patients with arrhythmias. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O17.	3.3	8
132	Continuation-Based Pull-In and Lift-Off Simulation Algorithms for Microelectromechanical Devices. Journal of Microelectromechanical Systems, 2014, 23, 1084-1093.	2.5	12
133	The Need for Speed. JACC: Cardiovascular Imaging, 2014, 7, 893-895.	5.3	10
134	Joint reconstruction of simultaneously acquired MR-PET data with multi sensor compressed sensing based on a joint sparsity constraint. EJMNM Physics, 2014, 1, A26.	2.7	11
135	Approaching ultimate intrinsic $\langle \text{SNR} \rangle$ in a uniform spherical sample with finite arrays of loop coils. Concepts in Magnetic Resonance Part B, 2014, 44, 53-65.	0.7	39
136	Optimal passivity enforcement of state-space models via localization methods. , 2014, , .		1
137	Method for in situ characterization of radiofrequency heating in parallel transmit MRI. Magnetic Resonance in Medicine, 2013, 69, 1457-1465.	3.0	22
138	Maximum efficiency radiofrequency shimming: Theory and initial application for hip imaging at 7 tesla. Magnetic Resonance in Medicine, 2013, 69, 1379-1388.	3.0	31
139	Noninvasive quantification of intracellular sodium in human brain using ultrahigh-field MRI. NMR in Biomedicine, 2013, 26, 9-19.	2.8	55
140	Uncertainty quantification for integrated circuits: Stochastic spectral methods. , 2013, , .		9
141	Stochastic Testing Method for Transistor-Level Uncertainty Quantification Based on Generalized Polynomial Chaos. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 1533-1545.	2.7	152
142	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.	3.4	18
143	Spontaneous brain activity in combat related PTSD. Neuroscience Letters, 2013, 547, 1-5.	2.1	76
144	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

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145	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
146	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
147	Dynamic Magnetic Resonance Imaging of the Pharynx during Deglutition. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2013, 122, 145-150.	1.1	11
148	Low-rank + sparse (L+S) reconstruction for accelerated dynamic MRI with separation of background and dynamic components. , 2013, , .		8
149	RF-emission device safety testing using MRI. , 2013, , .		2
150	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
151	Highly Accelerated Single Breath-Hold Noncontrast Thoracic MRA. <i>Investigative Radiology</i> , 2013, 48, 145-151.	6.2	8
152	Articular Cartilage: In Vivo Diffusion-Tensor Imaging. <i>Radiology</i> , 2012, 262, 550-559.	7.3	103
153	Combination of compressed sensing and parallel imaging for highly-accelerated dynamic MRI. , 2012, , .		8
154	Default-Mode Network Disruption in Mild Traumatic Brain Injury. <i>Radiology</i> , 2012, 265, 882-892.	7.3	246
155	Single breathhold noncontrast thoracic MRA using highly accelerated parallel imaging with a 32-element coil array. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 963-968.	3.4	13
156	Accelerated phase-contrast cine MRI using <i>k</i> - <i>t</i> SPARSESENSE. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1054-1064.	3.0	103
157	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
158	System and SAR characterization in parallel RF transmission. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1367-1378.	3.0	54
159	Exploiting sparsity to accelerate noncontrast MR angiography in the context of parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1391-1400.	3.0	11
160	A versatile flow phantom for intravoxel incoherent motion MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1710-1720.	3.0	45
161	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
162	A simple noniterative principal component technique for rapid noise reduction in parallel MR images. <i>NMR in Biomedicine</i> , 2012, 25, 84-92.	2.8	1

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163	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
164	High-resolution human cervical spinal cord imaging at 7T. <i>NMR in Biomedicine</i> , 2012, 25, 891-899.	2.8	59
165	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
166	Extended para-hydrogenation monitored by NMR spectroscopy. <i>Chemical Communications</i> , 2011, 47, 958-960.	4.1	16
167	Model order reduction of fully parameterized systems by recursive least square optimization. , 2011, , .		4
168	A moment-matching scheme for the passivity-preserving model order reduction of indefinite descriptor systems with possible polynomial parts. , 2011, , .		4
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