

Feng Liu

List of Publications by Year in descending order

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papers

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185998

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docs citations

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times ranked

2286
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Multi-Modal Antenna With Coupled Radiating Structures (I-MARS) for 7T pTx Body MRI. IEEE Transactions on Medical Imaging, 2022, 41, 39-51.	5.4	5
2	Deep grey matter quantitative susceptibility mapping from small spatial coverages using deep learning. Zeitschrift Fur Medizinische Physik, 2022, 32, 188-198.	0.6	3
3	Actively-shielded ultrahigh field MRI/NMR superconducting magnet design. Superconductor Science and Technology, 2022, 35, 014001.	1.8	9
4	Exposure of Infants to Gradient Fields in a Baby MRI Scanner. Bioelectromagnetics, 2022, 43, 69-80.	0.9	1
5	Progress of ultra-high-field superconducting magnets in China. Superconductor Science and Technology, 2022, 35, 023001.	1.8	22
6	A Novel Active Shim Coil Design Scheme for the Effective Imaging Region above the Patient Bed in MRI. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1685-1691.	0.8	1
7	Instant tissue field and magnetic susceptibility mapping from MRI raw phase using Laplacian enhanced deep neural networks. NeuroImage, 2022, 259, 119410.	2.1	12
8	Divergence-Based Magnetic Resonance Electrical Properties Tomography. IEEE Transactions on Biomedical Engineering, 2021, 68, 192-203.	2.5	6
9	Metamaterial-Inspired Radiofrequency (RF) Shield With Reduced Specific Absorption Rate (SAR) and Improved Transmit Efficiency for UHF MRI. IEEE Transactions on Biomedical Engineering, 2021, 68, 1178-1189.	2.5	16
10	Cognitive Load During Multitasking Can Be Accurately Assessed Based on Single Channel Electroencephalography Using Graph Methods. IEEE Access, 2021, 9, 33102-33109.	2.6	14
11	Compressed Sensing-Based Simultaneous Recovery of Magnitude and Phase MR Images via Dual Trigonometric Sparsity. IEEE Access, 2021, 9, 38001-38009.	2.6	3
12	Constrained Backtracking Matching Pursuit Algorithm for Image Reconstruction in Compressed Sensing. Applied Sciences (Switzerland), 2021, 11, 1435.	1.3	9
13	A volumetric finite-difference method for the design of three-dimensional, arbitrary-structured MRI gradient coil. Review of Scientific Instruments, 2021, 92, 034712.	0.6	4
14	On the regularization of feature fusion and mapping for fast MR multi-contrast imaging via iterative networks. Magnetic Resonance Imaging, 2021, 77, 159-168.	1.0	12
15	ReUINet: A fast GNL distortion correction approach on a 1.0T MRI scanner. Medical Physics, 2021, 48, 2991-3002.	1.6	3
16	Recurrence Plot-Based Approach for Cardiac Arrhythmia Classification Using Inception-ResNet-v2. Frontiers in Physiology, 2021, 12, 648950.	1.3	22
17	Effect of radiofrequency inhomogeneity on water-content based electrical properties tomography and its correction by flip angle maps. Magnetic Resonance Imaging, 2021, 78, 25-34.	1.0	4
18	Deep unregistered multi-contrast MRI reconstruction. Magnetic Resonance Imaging, 2021, 81, 33-41.	1.0	8

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19	Accelerating quantitative susceptibility and R2* mapping using incoherent undersampling and deep neural network reconstruction. <i>NeuroImage</i> , 2021, 240, 118404.	2.1	8
20	xQSM: quantitative susceptibility mapping with octave convolutional and noise-regularized neural networks. <i>NMR in Biomedicine</i> , 2021, 34, e4461.	1.6	25
21	Universal Undersampled MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , 2021, , 211-221.	1.0	7
22	Optimizing multicontrast MRI reconstruction with shareable feature aggregation and selection. <i>NMR in Biomedicine</i> , 2021, 34, e4540.	1.6	4
23	Image reconstruction for the rotating RF coil using k-t bin robust principal component analysis (RPCA) method. , 2021, 2021, 3313-3316.		0
24	Design of an insertable cone-shaped gradient coil matrix for head imaging with a volumetric finite-difference method. <i>Review of Scientific Instruments</i> , 2021, 92, 124709.	0.6	1
25	Numerical Experiments on the Contrast Capability of Magnetic Resonance Electrical Property Tomography. <i>Magnetic Resonance in Medical Sciences</i> , 2020, 19, 77-85.	1.1	1
26	Changes of the postcentral cortex in irritable bowel syndrome patients. <i>Brain Imaging and Behavior</i> , 2020, 14, 1566-1576.	1.1	13
27	Integrating model- and data-driven methods for synchronous adaptive multi-band image fusion. <i>Information Fusion</i> , 2020, 54, 145-160.	11.7	23
28	Integral MR-EPT With the Calculation of Coil Current Distributions. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 175-187.	5.4	4
29	The Optimal Target Magnetic Field Method for Passive Shimming in MRI. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 867-875.	0.8	7
30	Geometric distortion characterization and correction for the 1.0T Australian MRI linac system using an inverse electromagnetic method. <i>Medical Physics</i> , 2020, 47, 1126-1138.	1.6	11
31	Highly Shielded Gradient Coil Design for a Superconducting Planar MRI System. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1-1.	2.5	3
32	Design of Highly Uniform Three Dimensional Spherical Magnetic Field Coils for Atomic Sensors. <i>IEEE Sensors Journal</i> , 2020, 20, 11229-11236.	2.4	30
33	A dedicated eight-channel receive RF coil array for monkey brain MRI at 9.4 T. <i>NMR in Biomedicine</i> , 2020, 33, e4369.	1.6	2
34	Insert magnet and shim coils design for a 27 T nuclear magnetic resonance spectrometer with hybrid high and low temperature superconductors. <i>Superconductor Science and Technology</i> , 2020, 33, 064004.	1.8	17
35	Magnetic Resonance-Electrical Properties Tomography by Directly Solving Maxwell's Curl Equations. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3318.	1.3	1
36	Actively-Shielded Superconducting Magnet Design of a Large-Bore 7 T Animal MRI Scanner. <i>IEEE Transactions on Applied Superconductivity</i> , 2020, 30, 1-4.	1.1	4

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37	Fast geometric distortion correction using a deep neural network: Implementation for the 1 Tesla MRIâ€Linac system. Medical Physics, 2020, 47, 4303-4315.	1.6	4
38	Statistical analysis of the accuracy of water contentâ€based electrical properties tomography. NMR in Biomedicine, 2020, 33, e4273.	1.6	5
39	Electromagnetic design of a 1.5T open MRI superconducting magnet. Physica C: Superconductivity and Its Applications, 2020, 570, 1353602.	0.6	8
40	Adaptive <scp>SAR</scp> massâ€averaging framework to improve predictions of local <scp>RF</scp> heating near a hip implant for parallel transmit at 7 <scp>T</scp>. Magnetic Resonance in Medicine, 2019, 81, 615-627.	1.9	15
41	A Novel Design Method of Independent Zonal Superconducting Shim Coil. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-8.	1.1	8
42	A Dichotomization Winding Scheme on a Novel Asymmetric Head Gradient Coil Design with an Improved Force and Torque Balance. IEEE Transactions on Biomedical Engineering, 2019, 66, 1-1.	2.5	3
43	Gradient Field Deviation (GFD) Correction Using a Hybrid-Norm Approach With Wavelet Sub-Band Dependent Regularization: Implementation for Radial MRI at 9.4 T. IEEE Transactions on Biomedical Engineering, 2019, 66, 2693-2701.	2.5	5
44	Directional tensor product complex tight framelets for compressed sensing MRI reconstruction. IET Image Processing, 2019, 13, 2183-2189.	1.4	1
45	Tesseral superconducting shim coil design with quasi-saddle geometry for use in high-field magnet system. Review of Scientific Instruments, 2019, 90, 094705.	0.6	7
46	Chaotic Binary Sensing Matrices. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950121.	0.7	4
47	A cone-shaped gradient coil design for high-resolution MRI head imaging. Physics in Medicine and Biology, 2019, 64, 085003.	1.6	5
48	Electrocardiogram Reconstruction Based on Compressed Sensing. IEEE Access, 2019, 7, 37228-37237.	2.6	14
49	A numerical and experimental study of RF shimming in the presence of hip prostheses using adaptive SAR at 3 T. Magnetic Resonance in Medicine, 2019, 81, 3826-3839.	1.9	6
50	A Novel Mixed Integer Programming Scheme for Passive Shimming in MRI. , 2019, , .		1
51	Bipolar measurement matrix using chaotic sequence. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 139-151.	1.7	12
52	Reference-Based Integral MR-EPT: Simulation and Experiment Studies at 9.4 T MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 1832-1843.	2.5	8
53	Numerical Design of High-Efficiency Whole-Body Gradient Coils With a Hybrid Cylindrical-Planar Structure. IEEE Transactions on Biomedical Engineering, 2019, 66, 1628-1636.	2.5	6
54	Robust Feature Selection Based on Fuzzy Rough Sets with Representative Sample. Lecture Notes in Computer Science, 2019, , 151-165.	1.0	1

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55	An Efficient Integral-Based Method for Three-Dimensional MR-EPT and the Calculation of the RF-Coil-Induced $\{B_z\}$ Field. IEEE Transactions on Biomedical Engineering, 2018, 65, 282-293.	2.5	16
56	Radial magnetic resonance imaging (MRI) using a rotating radiofrequency (RF) coil at 9.4T. NMR in Biomedicine, 2018, 31, e3860.	1.6	5
57	Spiral Gradient Coil Design for Use in Cylindrical MRI Systems. IEEE Transactions on Biomedical Engineering, 2018, 65, 911-920.	2.5	22
58	Technical Note: Sequential combination of parallel imaging and dynamic artificial sparsity framework for rapid free-breathing golden-angle radial dynamic MRI: KARTARTS-GROWL. Medical Physics, 2018, 45, 202-213.	1.6	7
59	Smart Wearables in Healthcare: Signal Processing, Device Development, and Clinical Applications. Journal of Healthcare Engineering, 2018, 2018, 1-2.	1.1	15
60	An actively shielded gradient coil design for use in planar MRI systems with limited space. Review of Scientific Instruments, 2018, 89, 095110.	0.6	9
61	Efficient sleep classification based on entropy features and a support vector machine classifier. Physiological Measurement, 2018, 39, 115005.	1.2	14
62	Age-related network topological difference based on the sleep ECG signal. Physiological Measurement, 2018, 39, 084009.	1.2	7
63	Numerical simulations on active shielding methods comparison and wrapped angle optimization for gradient coil design in MRI with enhanced shielding effect. Review of Scientific Instruments, 2018, 89, 055116.	0.6	1
64	MR-based electrical property tomography using a modified finite difference scheme. Physics in Medicine and Biology, 2018, 63, 145013.	1.6	12
65	Online dynamic cardiac imaging based on the elastic-net model. Inverse Problems in Science and Engineering, 2017, 25, 188-201.	1.2	0
66	Image Reconstruction for a Rotating Radiofrequency Coil (RRFC) Using Self-Calibrated Sensitivity From Radial Sampling. IEEE Transactions on Biomedical Engineering, 2017, 64, 274-283.	2.5	6
67	Pseudo-Polar Fourier Transform-Based Compressed Sensing MRI. IEEE Transactions on Biomedical Engineering, 2017, 64, 816-825.	2.5	20
68	A simulation study on the design of gradient coils in MRI for the imaging area above the patient bed. Measurement Science and Technology, 2017, 28, 035402.	1.4	5
69	A numerical study of the acoustic radiation due to eddy current-cryostat interactions. Medical Physics, 2017, 44, 2196-2206.	1.6	11
70	Design of transverse head gradient coils using a layer-sharing scheme. Journal of Magnetic Resonance, 2017, 278, 88-95.	1.2	9
71	Dynamic updating atlas for heart segmentation with a nonlinear field-based model. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1785.	1.2	4
72	An improved non-Cartesian partially parallel imaging by exploiting artificial sparsity. Magnetic Resonance in Medicine, 2017, 78, 271-279.	1.9	12

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73	A framework combining window width-level adjustment and Gaussian filter-based multi-resolution for automatic whole heart segmentation. <i>Neurocomputing</i> , 2017, 220, 138-150.	3.5	28
74	Improved $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1">\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:mi}\rangle k \langle \text{mml:mi}\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:math}\rangle - \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M2">\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:mi}\rangle t \langle \text{mml:mi}\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:math}\rangle$ PCA Algorithm Using Artificial Sparsity in Dynamic MRI. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-12.	0.7	2
75	Quantitative analysis of the reconstruction errors of the currently popular algorithm of magnetic resonance electrical property tomography at the interfaces of adjacent tissues. <i>NMR in Biomedicine</i> , 2016, 29, 744-750.	1.6	26
76	Simulation of multi-probe radiofrequency ablation guided by optical surgery navigation system under different active modes. <i>Computer Assisted Surgery</i> , 2016, 21, 107-116.	0.6	3
77	An improved asymmetric gradient coil design for high-resolution MRI head imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, 8875-8889.	1.6	17
78	A large-scale measurement of dielectric properties of normal and malignant colorectal tissues obtained from cancer surgeries at Larmor frequencies. <i>Medical Physics</i> , 2016, 43, 5991-5997.	1.6	18
79	The Design of Decoupled Even-Order Zonal Superconducting Shim Coils for a 9.4 T Whole-Body MRI. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-8.	1.1	8
80	Asymmetric gradient coil design for use in a short, open bore magnetic resonance imaging scanner. <i>Journal of Magnetic Resonance</i> , 2016, 269, 203-212.	1.2	13
81	Mitigation of Intra-coil Eddy Currents in Split Gradient Coils in a Hybrid MRI-LINAC System. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 64, 1-1.	2.5	7
82	Passive shimming of a superconducting magnet using the L1-norm regularized least square algorithm. <i>Journal of Magnetic Resonance</i> , 2016, 263, 122-125.	1.2	15
83	Numerical assessment of the reduction of specific absorption rate by adding high dielectric materials for fetus MRI at 3 T. <i>Biomedizinische Technik</i> , 2016, 61, 455-461.	0.9	3
84	Intra-coil interactions in split gradient coils in a hybrid MRI-LINAC system. <i>Journal of Magnetic Resonance</i> , 2016, 265, 52-58.	1.2	10
85	Development of high magnetic field magnet technologies for the magnetic resonance medical imaging. , 2015, , .		1
86	Simulation study of noise reduction methods for a split MRI system using a finite element method. <i>Medical Physics</i> , 2015, 42, 7122-7131.	1.6	12
87	Accelerating dynamic cardiac imaging based on a dual-dictionary learning algorithm. , 2015, , .		0
88	IBEM applied to the design of gradient coils for superconducting MRI. , 2015, , .		0
89	Acoustic analysis for a split MRI system using FE method. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 85-96.	0.3	14
90	Determination of Sample Entropy and Fuzzy Measure Entropy Parameters for Distinguishing Congestive Heart Failure from Normal Sinus Rhythm Subjects. <i>Entropy</i> , 2015, 17, 6270-6288.	1.1	68

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91	Compressed Sensing MRI via Two-stage Reconstruction. IEEE Transactions on Biomedical Engineering, 2015, 62, 110-118.	2.5	28
92	A novel passive shimming method for the correction of magnetic fields above the patient bed in MRI. Journal of Magnetic Resonance, 2015, 257, 64-69.	1.2	16
93	In vivo sensitivity estimation and imaging acceleration with rotating RF coil arrays at 7 Tesla. Journal of Magnetic Resonance, 2015, 252, 29-40.	1.2	5
94	Aliasing Artefact Suppression in Compressed Sensing MRI for Random Phase-Encode Undersampling. IEEE Transactions on Biomedical Engineering, 2015, 62, 2215-2223.	2.5	15
95	Design of Shimming Rings for Small Permanent MRI Magnet Using Sensitivity-Analysis-Based Particle Swarm Optimization Algorithm. Journal of Medical and Biological Engineering, 2015, 35, 448-454.	1.0	2
96	Multidimensional Compressed Sensing MRI Using Tensor Decomposition-Based Sparsifying Transform. PLoS ONE, 2014, 9, e98441.	1.1	57
97	Online dynamic magnetic resonance imaging based on an improved motion prediction scheme. , 2014, , .		5
98	GPU accelerated high-dimensional compressed sensing MRI. , 2014, , .		3
99	Sparse-Representation-Based Direct MinimumLp-Norm Algorithm for MRI Phase Unwrapping. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-11.	0.7	6
100	Highly accelerated acquisition and homogeneous image reconstruction with rotating RF coil array at 7Tâ€”A phantom based study. Journal of Magnetic Resonance, 2014, 240, 102-112.	1.2	8
101	An analysis of the gradient-induced electric fields and current densities in human models when situated in a hybrid MRI-LINAC system. Physics in Medicine and Biology, 2014, 59, 233-245.	1.6	20
102	Image registration guided, sparsity constrained reconstructions for dynamic MRI. Magnetic Resonance Imaging, 2014, 32, 1403-1417.	1.0	5
103	Numerical Safety Study of Currents Induced in the Patient During Rotations in the Static Field Produced by a Hybrid MRI-LINAC System. IEEE Transactions on Biomedical Engineering, 2014, 61, 784-793.	2.5	10
104	Fibroblast proliferation alters cardiac excitation conduction and contraction: a computational study. Journal of Zhejiang University: Science B, 2014, 15, 225-242.	1.3	16
105	Improved l1-SPIRiT using 3D walsh transform-based sparsity basis. Magnetic Resonance Imaging, 2014, 32, 924-933.	1.0	6
106	Skin and proximity effects in the conductors of split gradient coils for a hybrid Linac-MRI scanner. Journal of Magnetic Resonance, 2014, 242, 86-94.	1.2	13
107	Unconventional Gradient Coil Designs in Magnetic Resonance Imaging. Critical Reviews in Biomedical Engineering, 2014, 42, 493-526.	0.5	2
108	Analysis of heart rate variability using fuzzy measure entropy. Computers in Biology and Medicine, 2013, 43, 100-108.	3.9	129

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109	The combination of self-organizing feature maps and support vector regression for solving the inverse ECG problem. <i>Computers and Mathematics With Applications</i> , 2013, 66, 1981-1990.	1.4	3
110	Fast dynamic magnetic resonance imaging based on an improved Motion Estimation/Motion Compensation scheme. , 2013, , .		4
111	Sparsity-constrained SENSE reconstruction: An efficient implementation using a fast composite splitting algorithm. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1218-1227.	1.0	17
112	Flanged-edge transverse gradient coil design for a hybrid LINAC MRI system. <i>Journal of Magnetic Resonance</i> , 2013, 226, 70-78.	1.2	22
113	Distributed Compressed Sensing MRI Using Volume Array Coil. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 989678.	1.3	0
114	A homogeneous superconducting magnet design using a hybrid optimization algorithm. <i>Measurement Science and Technology</i> , 2013, 24, 125402.	1.4	12
115	Improved halbach magnets by particle swarm optimization for mobile nuclear magnetic resonance systems. , 2013, , .		4
116	Marriage of CT and MRI for vulnerable plaque characterization. <i>Imaging in Medicine</i> , 2013, 5, 95-97.	0.0	1
117	A New Particle Swarm Optimization-Based Method for Phase Unwrapping of MRI Data. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	9
118	Cardiovascular System Modeling. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-2.	0.7	3
119	High acceleration with a rotating radiofrequency coil array (RRFCA) in parallel magnetic resonance imaging (MRI). , 2012, 2012, 1098-101.		3
120	Design of Superconducting Shim Coils for a 400 MHz NMR Using Nonlinear Optimization Algorithm. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 4900505-4900505.	1.1	11
121	A Hybrid Model of Maximum Margin Clustering Method and Support Vector Regression for Noninvasive Electrocardiographic Imaging. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	8
122	A Study of Mechanical Optimization Strategy for Cardiac Resynchronization Therapy Based on an Electromechanical Model. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-13.	0.7	6
123	Improving SAR estimations in MRI using subject-specific models. <i>Physics in Medicine and Biology</i> , 2012, 57, 8153-8171.	1.6	27
124	Application of SVD-based sparsity in compressed sensing susceptibility weighted imaging. , 2012, , .		3
125	A Finite Difference Method for the Design of Gradient Coils in MRI An Initial Framework. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2412-2421.	2.5	31
126	A Superconducting Magnet System for Whole-Body Metabolism Imaging. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 4400905-4400905.	1.1	34

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127	Simulation and analysis of the interactions between split gradient coils and a split magnet cryostat in an MRI-PET system. Journal of Magnetic Resonance, 2012, 222, 8-15.	1.2	10
128	Quench Protection Design of a 1.5 T Superconducting MRI Magnet. IEEE Transactions on Applied Superconductivity, 2012, 22, 4703604-4703604.	1.1	17
129	Inverse field-based approach for simultaneous B1 mapping at high fields – A phantom based study. Journal of Magnetic Resonance, 2012, 217, 27-35.	1.2	8
130	Electromechanical Design and Construction of a Rotating Radio-Frequency Coil System for Applications in Magnetic Resonance. IEEE Transactions on Biomedical Engineering, 2012, 59, 1068-1075.	2.5	6
131	Advanced Three-Dimensional Tailored RF Pulse Design in Volume Selective Parallel Excitation. IEEE Transactions on Medical Imaging, 2012, 31, 997-1007.	5.4	11
132	A comparison study of different RF shields for an 8-element transceive small animal array at 9.4T. , 2011, 2011, 543-6.		0
133	A theoretical study for the inverse design of an ellipsoidal phased-array breast coil. , 2011, 2011, 539-42.		0
134	Simulation and analysis of split gradient coil performance in MRI. , 2011, 2011, 4149-52.		1
135	Compressed sensing MRI using Singular Value Decomposition based sparsity basis. , 2011, 2011, 5734-7.		8
136	Comparison of different threshold values for approximate entropy: application to investigate the heart rate variability between heart failure and healthy control groups. Physiological Measurement, 2011, 32, 167-180.	1.2	99
137	Compressed sensing MRI with singular value decomposition-based sparsity basis. Physics in Medicine and Biology, 2011, 56, 6311-6325.	1.6	57
138	An Improved Cylindrical FDTD Algorithm and Its Application to Field-Tissue Interaction Study in MRI. IEEE Transactions on Magnetics, 2011, 47, 466-470.	1.2	13
139	A Hybrid Field-Harmonics Approach for Passive Shimming Design in MRI. IEEE Transactions on Applied Superconductivity, 2011, 21, 60-67.	1.1	33
140	GPU-Accelerated FDTD Modeling of Radio-Frequency Field-Tissue Interactions in High-Field MRI. IEEE Transactions on Biomedical Engineering, 2011, 58, 1789-1796.	2.5	34
141	Characterization and reduction of X-gradient induced eddy currents in a NdFeB magnetic resonance imaging magnet – 3D finite element method-based numerical studies. Concepts in Magnetic Resonance Part B, 2011, 39B, 47-58.	0.3	3
142	Finite element analysis of gradient z-coil induced eddy currents in a permanent MRI magnet. Journal of Magnetic Resonance, 2011, 208, 148-155.	1.2	13
143	On epicardial potential reconstruction using regularization schemes with the L1-norm data term. Physics in Medicine and Biology, 2011, 56, 57-72.	1.6	26
144	Optimized Slab Selective Parallel RF Excitation at Ultra High Field. , 2011, , .		0

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145	The optimization of an 8-channel transceive volume array for small animal MRI at 9.4T. , 2011, 2011, 2833-6.		0
146	Using Additional Dielectric Material to Improve the RF Uniformity in Traveling-Wave MRI. , 2011, , .		0
147	Application of kernel principal component analysis and support vector regression for reconstruction of cardiac transmembrane potentials. Physics in Medicine and Biology, 2011, 56, 1727-1742.	1.6	13
148	A MOM/FEM-based coil sensitivity mapping method for high-field parallel MRI. , 2011, 2011, 2837-40.		1
149	Regularized Least Squares Estimating Sensitivity for Self-calibrating Parallel Imaging. Journal of Computers, 2011, 6, .	0.4	3
150	MRI Coil Design Using Boundary-Element Method With Regularization Technique: A Numerical Calculation Study. IEEE Transactions on Magnetics, 2010, 46, 1052-1059.	1.2	43
151	An electromagnetic reverse method of coil sensitivity mapping for parallel MRI “ Theoretical framework. Journal of Magnetic Resonance, 2010, 207, 59-68.	1.2	25
152	Investigating the adsorption mechanism of Bovine Serum Albumin on crystal surface by steering atomic force microscopy. , 2010, , .		0
153	An improved cylindrical FDTD method and its application to field-tissue interaction study in MRI. , 2010, 2010, 3154-7.		0
154	Comparison and analysis of nonlinear algorithms for compressed sensing in MRI. , 2010, 2010, 5661-4.		3
155	In situ Atomic Force Microscope observation of self-assembly adsorption of Bovine Serum Albumin on silica and gold nano film. , 2010, , .		0
156	Estimating the Coil Sensitivity Maps from the Surface Images in Parallel Imaging. , 2010, , .		0
157	The molecular mechanism of the nature/denature for glucose oxidase adsorbed on SWCNTs. , 2010, , .		0
158	A Finite-Difference Method for the Design of Biplanar Transverse Gradient Coil in MRI. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
159	A Method for Estimating the Coil Sensitivity Maps from the Surface Images in Parallel Imaging. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
160	Self-calibrating Coil Sensitivity Profiles for Parallel Imaging Based on Anisotropic Diffusion. Journal of Multimedia, 2010, 5, .	0.3	1
161	Mechanical analysis of congestive heart failure caused by bundle branch block based on an electromechanical canine heart model. Physics in Medicine and Biology, 2009, 54, 353-371.	1.6	9
162	Effect of Cardiac Motion on Solution of the Electrocardiography Inverse Problem. IEEE Transactions on Biomedical Engineering, 2009, 56, 923-931.	2.5	15

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163	Solving the ECG Forward Problem by Means of Standard h- and h-Hierarchical Adaptive Linear Boundary Element Method: Comparison With Two Refinement Schemes. IEEE Transactions on Biomedical Engineering, 2009, 56, 1454-1464.	2.5	8
164	Reverse-engineering of gradient coil designs based on experimentally measured magnetic fields and approximate knowledge of coil geometry—application in exposure evaluations. Concepts in Magnetic Resonance Part B, 2009, 35B, 32-43.	0.3	8
165	Inverse design of a phased-array coil for breast magnetic resonance imaging. Concepts in Magnetic Resonance Part B, 2009, 35B, 221-231.	0.3	8
166	Hybrid numerical techniques for the modelling of radiofrequency coils in MRI. NMR in Biomedicine, 2009, 22, 937-951.	1.6	29
167	The application of subspace preconditioned LSQR algorithm for solving the electrocardiography inverse problem. Medical Engineering and Physics, 2009, 31, 979-985.	0.8	9
168	Molecular mechanism for conformation mobility of the active center of glucose oxidase adsorbed on single wall carbon nanotubes. , 2009, 2009, 2739-43.		1
169	Equivalent Magnetization Current Method Applied to the Design of Gradient Coils for Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2009, 45, 767-775.	1.2	50
170	Truncated Total Least Squares: A New Regularization Method for the Solution of ECG Inverse Problems. IEEE Transactions on Biomedical Engineering, 2008, 55, 1327-1335.	2.5	53
171	An Improved Quasi-Static Finite-Difference Scheme for Induced Field Evaluation Based on the Biconjugate Gradient Method. IEEE Transactions on Biomedical Engineering, 2008, 55, 1800-1808.	2.5	5
172	Passive Shim Design and a Shimming Approach for Biplanar Permanent Magnetic Resonance Imaging Magnets. IEEE Transactions on Magnetics, 2008, 44, 394-402.	1.2	40
173	Deformation-Space Method for the Design of Biplanar Transverse Gradient Coils in Open MRI Systems. IEEE Transactions on Magnetics, 2008, 44, 2035-2041.	1.2	18
174	Conformational Mobility of GOx Coenzyme Complex on Single-Wall Carbon Nanotubes. Sensors, 2008, 8, 8453-8462.	2.1	16
175	Two hybrid regularization frameworks for solving the electrocardiography inverse problem. Physics in Medicine and Biology, 2008, 53, 5151-5164.	1.6	14
176	An efficient impedance method for induced field evaluation based on a stabilized Bi-conjugate gradient algorithm. Physics in Medicine and Biology, 2008, 53, 6363-6375.	1.6	10
177	A ultra high field multi-element transceive volume array for small animal MRI. , 2008, 2008, 2039-42.		5
178	Parallel Solvers for Finite-Difference Modeling of Large-Scale, High-Resolution Electromagnetic Problems in MRI. International Journal of Antennas and Propagation, 2008, 2008, 1-12.	0.7	5
179	A Fast Parallel Imaging Rotary Phased Array Head Coil with Improved Sensitivity Profile Deep in the Center of the Brain. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 504-7.	0.5	4
180	An Improved Hybrid MoM/FDTD Technique for MRI RF Coils Modeling Using Huygen's Equivalent Surface Method. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3898-901.	0.5	2

#	ARTICLE	IF	CITATIONS
181	A Simple Relationship for High Efficiencyâ€œGradient Uniformity Tradeoff in Multilayer Asymmetric Gradient Coils for Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2007, 43, 523-532.	1.2	12
182	Forward and Inverse Solutions of Electrocardiography Problem Using an Adaptive BEM Method. , 2007, , 290-299.		8
183	On the Accurate Modeling of a Complex Antenna for Breast Tumor Detection Using a Hybrid MOM/FDTD Approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6637-40.	0.5	4
184	An MRI-dedicated parallel FDTD scheme. Concepts in Magnetic Resonance Part B, 2007, 31B, 147-161.	0.3	11
185	Longitudinal gradient coil optimization in the presence of transient eddy currents. Magnetic Resonance in Medicine, 2007, 57, 1119-1130.	1.9	22
186	Numerical study of currents in workers induced by body-motion around high-ultrahigh field MRI magnets. Journal of Magnetic Resonance Imaging, 2007, 26, 1261-1277.	1.9	44
187	Exposure of workers to pulsed gradients in MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 1236-1254.	1.9	35
188	FDTD Study of an UWB Radar Technique for Breast Tumor Detection. , 2006, , .		1
189	Simulation of Brugada syndrome using cellular and three-dimensional whole-heart modeling approaches. Physiological Measurement, 2006, 27, 1125-1142.	1.2	23
190	High-Field Magnetic Resonance Imaging With Reduced Field/Tissue RF Artefactsâ€œA Modeling Study Using Hybrid MoM/FEM and FDTD Technique. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 628-633.	1.4	16
191	Multiple-acquisition parallel imaging combined with a transceive array for the amelioration of high-field RF distortion: A modeling study. Concepts in Magnetic Resonance Part B, 2006, 29B, 95-105.	0.3	11
192	A comparison of different choices for the regularization parameter in inverse electrocardiography models. , 2006, 2006, 3903-6.		9
193	A Parallel FDTD Scheme for Electromagnetic Analysis and Design of MRI System. , 2006, 2006, 264-7.		0
194	Effect of cardiac motion on body surface electrocardiographic potentials: an MRI-based simulation study. Physics in Medicine and Biology, 2006, 51, 3405-3418.	1.6	10
195	Transient temperature rise in a mouse due to low-frequency regional hyperthermia. Physics in Medicine and Biology, 2006, 51, 1673-1691.	1.6	34
196	A FDTD Analysis to Investigate Capabilities of an UWB Radar for Breast Tumor Detection. , 2006, , .		0
197	Analysis of Transient Eddy Currents in MRI Using a Cylindrical FDTD Method. IEEE Transactions on Applied Superconductivity, 2006, 16, 1924-1936.	1.1	35
198	Numerical evaluation of the fields induced by body motion in or near high-field MRI scanners. Progress in Biophysics and Molecular Biology, 2005, 87, 267-278.	1.4	54

#	ARTICLE	IF	CITATIONS
199	An Inverse Methodology for High-Frequency RF Coil Design for MRI With De-emphasized B_1 Fields. IEEE Transactions on Biomedical Engineering, 2005, 52, 1582-1587.	2.5	13
200	Numerical modeling of 11.1T MRI of a human head using a MoM/FDTD method. Concepts in Magnetic Resonance Part B, 2005, 24B, 28-38.	0.3	38
201	Focused, eight-element transceive phased array coil for parallel magnetic resonance imaging of the chest—Theoretical considerations. Magnetic Resonance in Medicine, 2005, 53, 1251-1257.	1.9	43
202	Model Implementation and Case Study for the Lossy, Multilayered Spherical Head Phantom in MRI Application. , 2005, 2005, 1400-3.		0
203	Comparative Study of Symmetric and Asymmetric Cylindrical MRI Gradient Y-Coils in terms of Induced Eddy Currents. , 2005, 2005, 7016-9.		0
204	Analysis of cardiac ventricular wall motion based on a three-dimensional electromechanical biventricular model. Physics in Medicine and Biology, 2005, 50, 1901-1917.	1.6	48
205	A theoretical comparison of two optimization methods for radiofrequency drive schemes in high frequency MRI resonators. Physics in Medicine and Biology, 2005, 50, 5281-5291.	1.6	13
206	An Electrical Heart Model Incorporating Real Geometry and Motion. , 2005, 2006, 345-8.		4
207	Numerical modelling of thermal effects in rats due to high-field magnetic resonance imaging (0.5T) T ₁ weighted MRI. Over	1.6	28
208	A distributed equivalent magnetic current based FDTD method for the calculation of E-fields induced by gradient coils. Journal of Magnetic Resonance, 2004, 169, 323-327.	1.2	17
209	An FDTD Model for Calculation of Gradient-Induced Eddy Currents in MRI System. IEEE Transactions on Applied Superconductivity, 2004, 14, 1983-1989.	1.1	39
210	Electromagnetic fields inside a lossy, multilayered spherical head phantom excited by MRI coils: models and methods. Physics in Medicine and Biology, 2004, 49, 1835-1851.	1.6	82
211	On the induced electric field gradients in the human body for magnetic stimulation by gradient coils in MRI. IEEE Transactions on Biomedical Engineering, 2003, 50, 804-815.	2.5	71
212	Influence of magnetically-induced E-fields on cardiac electric activity during MRI: A modeling study. Magnetic Resonance in Medicine, 2003, 50, 1180-1188.	1.9	13
213	A high definition, finite difference time domain method. Applied Mathematical Modelling, 2003, 27, 409-419.	2.2	14
214	Calculation of electric fields induced by body and head motion in high-field MRI. Journal of Magnetic Resonance, 2003, 161, 99-107.	1.2	61
215	Analysis of the Influence of the Electrical Asynchrony on Regional Mechanics of the Infarcted Left Ventricle Using Electromechanical Heart Models.. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2003, 46, 1-9.	0.4	10
216	Finite difference time domain (FDTD) method for modeling the effect of switched gradients on the human body in MRI. Magnetic Resonance in Medicine, 2002, 48, 1037-1042.	1.9	41

#	ARTICLE	IF	CITATIONS
217	Finite-difference time-domain-based studies of MRI pulsed field gradient-induced eddy currents inside the human body. Concepts in Magnetic Resonance, 2002, 15, 26-36.	1.3	43
218	Comparison of Four Recovery Algorithms Used in Compressed Sensing for ECG Signal Processing. , 0, , .		6