Stuart Crozier

List of Publications by Year
in descending order

367	7,319	71061	110317
papers	citations	41 h-index	64 g-index

369	369	369	5913
all docs	docs citations	times ranked	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	Exposure of Infants to Gradient Fields in a Baby MRI Scanner. Bioelectromagnetics, 2022, 43, 69-80.	0.9	1
4	Automated 3D Analysis of Clinical Magnetic Resonance Images Demonstrates Significant Reductions in Cam Morphology Following Arthroscopic Intervention in Contrast to Physiotherapy. Arthroscopy, Sports Medicine, and Rehabilitation, 2022, 4, e1353-e1362.	0.8	4
5	Instant tissue field and magnetic susceptibility mapping from MRI raw phase using Laplacian enhanced deep neural networks. NeuroImage, 2022, 259, 119410.	2.1	12
6	Divergence-Based Magnetic Resonance Electrical Properties Tomography. IEEE Transactions on Biomedical Engineering, 2021, 68, 192-203.	2.5	6
7	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
8	Bespoke Fractal Sampling Patterns for Discrete Fourier Space via the Kaleidoscope Transform. IEEE Signal Processing Letters, 2021, 28, 2053-2057.	2.1	2
9	Discrete element and finite element methods provide similar estimations for hip joint contact mechanics during walking gait. Journal of Biomechanics, 2021, 115, 110163.	0.9	8
10	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
11	Can3d: Fast 3d Knee Mri Segmentation Via Compact Context Aggregation. , 2021, , .		2
12	ReUINet: A fast GNL distortion correction approach on a 1.0ÂT MRIâ€Linac scanner. Medical Physics, 2021, 48, 2991-3002.	1.6	3
13	Deep learning in magnetic resonance image reconstruction. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 564-577.	0.9	22
14	Deep unregistered multi-contrast MRI reconstruction. Magnetic Resonance Imaging, 2021, 81, 33-41.	1.0	8
15	Accelerating quantitative susceptibility and R2* mapping using incoherent undersampling and deep neural network reconstruction. NeuroImage, 2021, 240, 118404.	2.1	8
16	Automated analysis of immediate reliability of T2 and T2* relaxation times of hip joint cartilage from 3ÂT MR examinations. Magnetic Resonance Imaging, 2021, 82, 42-54.	1.0	1
17	xQSM: quantitative susceptibility mapping with octave convolutional and noiseâ€regularized neural networks. NMR in Biomedicine, 2021, 34, e4461.	1.6	25
18	Optimizing multicontrast MRI reconstruction with shareable feature aggregation and selection. NMR in Biomedicine, 2021, 34, e4540.	1.6	4

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19	Case Report: Preliminary Images From an Electromagnetic Portable Brain Scanner for Diagnosis and Monitoring of Acute Stroke. Frontiers in Neurology, 2021, 12, 765412.	1.1	7
20	Image reconstruction for the rotating RF coil using k-t bin robust principal component analysis (RPCA) method. , 2021, 2021, 3313-3316.		0
21	Integral MR-EPT With the Calculation of Coil Current Distributions. IEEE Transactions on Medical Imaging, 2020, 39, 175-187.	5.4	4
22	Geometric distortion characterization and correction for the 1.0ÂT Australian MRIâ€linac system using an inverse electromagnetic method. Medical Physics, 2020, 47, 1126-1138.	1.6	11
23	A dedicated eightâ€channel receive RF coil array for monkey brain MRI at 9.4 T. NMR in Biomedicine, 2020, 33, e4369.	1.6	2
24	Simultaneous superâ€resolution and contrast synthesis of routine clinical magnetic resonance images of the knee for improving automatic segmentation of joint cartilage: data from the Osteoarthritis Initiative. Medical Physics, 2020, 47, 4939-4948.	1.6	6
25	Fast High Dynamic Range MRI by Contrast Enhancement Networks. , 2020, , .		0
26	WARF: A Weighted-Sum Approach to Radial MRI Image Reconstruction With a Rotating RF Coil. IEEE Transactions on Computational Imaging, 2020, 6, 558-568.	2.6	0
27	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
28	Fully Automatic Computer-aided Mass Detection and Segmentation via Pseudo-color Mammograms and Mask R-CNN. , 2020, , .		19
29	Automatic lesion detection, segmentation and characterization via 3D multiscale morphological sifting in breast MRI. Biomedical Physics and Engineering Express, 2020, 6, 065027.	0.6	0
30	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
31	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
32	A cone-shaped gradient coil design for high-resolution MRI head imaging. Physics in Medicine and Biology, 2019, 64, 085003.	1.6	5
33	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
34	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
35	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
36	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

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37	Local contrastâ€enhanced <scp>MR</scp> images via high dynamic range processing. Magnetic Resonance in Medicine, 2018, 80, 1206-1218.	1.9	2
38	Radial magnetic resonance imaging (MRI) using a rotating radiofrequency (RF) coil at 9.4ÂT. NMR in Biomedicine, 2018, 31, e3860.	1.6	5
39	An open 8â€channel parallel transmission coil for static and dynamic 7T MRI of the knee and ankle joints at multiple postures. Magnetic Resonance in Medicine, 2018, 79, 1804-1816.	1.9	25
40	Spiral Gradient Coil Design for Use in Cylindrical MRI Systems. IEEE Transactions on Biomedical Engineering, 2018, 65, 911-920.	2.5	22
41	A lightweight rapid application development framework for biomedical image analysis. Computer Methods and Programs in Biomedicine, 2018, 164, 193-205.	2.6	12
42	Chaotic Sensing. IEEE Transactions on Image Processing, 2018, 27, 6079-6092.	6.0	6
43	MR-based electrical property tomography using a modified finite difference scheme. Physics in Medicine and Biology, 2018, 63, 145013.	1.6	12
44	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
45	Pseudo-Polar Fourier Transform-Based Compressed Sensing MRI. IEEE Transactions on Biomedical Engineering, 2017, 64, 816-825.	2.5	20
46	Multistatic Biomedical Microwave Imaging Using Spatial Interpolator for Extended Virtual Antenna Array. IEEE Transactions on Antennas and Propagation, 2017, 65, 1121-1130.	3.1	19
47	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
48	Synthesis of the Cooling Pathways Optimal Layout for MRI Split Gradient Coils. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	0
49	Comparison of 3D bone models of the knee joint derived from CT and 3T MR imaging. European Journal of Radiology, 2017, 93, 178-184.	1.2	29
50	Future of medical physics: Realâ€time MRIâ€guided proton therapy. Medical Physics, 2017, 44, e77-e90.	1.6	99
51	Automated T2-mapping of the Menisci From Magnetic Resonance Images in Patients with Acute Knee Injury. Academic Radiology, 2017, 24, 1295-1304.	1.3	9
52	A numerical study of the acoustic radiation due to eddy current-cryostat interactions. Medical Physics, 2017, 44, 2196-2206.	1.6	11
53	Design of transverse head gradient coils using a layer-sharing scheme. Journal of Magnetic Resonance, 2017, 278, 88-95.	1.2	9
54	Multi-scale mass segmentation for mammograms via cascaded random forests. , 2017, , .		10

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55	The coil array method for creating a dynamic imaging volume. Magnetic Resonance in Medicine, 2017, 78, 784-793.	1.9	7
56	Three-Dimensional Microwave Hyperthermia for Breast Cancer Treatment in a Realistic Environment Using Particle Swarm Optimization. IEEE Transactions on Biomedical Engineering, 2017, 64, 1335-1344.	2.5	57
57	Evaluation of Childrenâ€™s Exposure to Electromagnetic Fields of Mobile Phones Using Age-Specific Head Models With Age-Dependent Dielectric Properties. IEEE Access, 2017, 5, 27345-27353.	2.6	4
58	Design and Experimental Evaluation of a Non-Invasive Microwave Head Imaging System for Intracranial Haemorrhage Detection. PLoS ONE, 2016, 11, e0152351.	1.1	70
59	Incremental shape learning of 3D surfaces of the knee, data from the osteoarthritis initiative. , 2016, , .		0
60	Synthesis of the cooling pathways optimal layout for MRI gradient coils. , 2016, , .		0
61	Automated segmentation and T2-mapping of the posterior cruciate ligament from MRI of the knee: Data from the osteoarthritis initiative. , 2016, , .		3
62	Finite Radial Reconstruction for Magnetic Resonance Imaging: A Theoretical Study. , 2016, , .		1
63	Fast automated segmentation of multiple objects via spatially weighted shape learning. Physics in Medicine and Biology, 2016, 61, 8070-8084.	1.6	11
64	An improved asymmetric gradient coil design for high-resolution MRI head imaging. Physics in Medicine and Biology, 2016, 61, 8875-8889.	1.6	17
65	Automatic segmentation of the glenohumeral cartilages from magnetic resonance images. Medical Physics, 2016, 43, 5370-5379.	1.6	8
66	Technical Note: Experimental results from a prototype highâ€field inline MRIâ€linac. Medical Physics, 2016, 43, 5188-5194.	1.6	43
67	Mixed-dimensional elements in transient thermal analysis of gradient coils. Numerical Heat Transfer; Part A: Applications, 2016, 69, 265-282.	1.2	5
68	Automated analysis of hip joint cartilage combining MR T2 and threeâ€dimensional fastâ€spinâ€echo images. Magnetic Resonance in Medicine, 2016, 75, 403-413.	1.9	14
69	Automated Intervertebral Disc Segmentation Using Probabilistic Shape Estimation and Active Shape Models. Lecture Notes in Computer Science, 2016, , 150-158.	1.0	0
70	Asymmetric gradient coil design for use in a short, open bore magnetic resonance imaging scanner. Journal of Magnetic Resonance, 2016, 269, 203-212.	1.2	13
71	Mitigation of Intra-coil Eddy Currents in Split Gradient Coils in a Hybrid MRI-LINAC System. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	2.5	7
72	Passive shimming of a superconducting magnet using the L1-norm regularized least square algorithm. Journal of Magnetic Resonance, 2016, 263, 122-125.	1.2	15

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73	Coupled Magnetothermal Analysis of Gradient Coils in MRI Scanners. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	2
74	Intra-coil interactions in split gradient coils in a hybrid MRIâ€“LINAC system. Journal of Magnetic Resonance, 2016, 265, 52-58.	1.2	10
75	A Method for Reducing Secondary Field Effects in Asymmetric MRI Gradient Coil Design. IEEE Transactions on Biomedical Engineering, 2016, 63, 924-932.	2.5	3
76	Using the apparent diffusion coefficient to identifying MGMT promoter methylation status early in glioblastoma: importance of analytical method. Journal of Medical Radiation Sciences, 2015, 62, 92-98.	0.8	35
77	Personal exposure to static and time-varying magnetic fields during MRI procedures in clinical practice in the UK. Occupational and Environmental Medicine, 2015, 73, oemed-2015-103194.	1.3	17
78	Simulation study of noise reduction methods for a split MRI system using a finite element method. Medical Physics, 2015, 42, 7122-7131.	1.6	12
79	Acoustic analysis for a split <scp>MRI</scp> system using FE method. Concepts in Magnetic Resonance Part B, 2015, 45, 85-96.	0.3	14
80	Numerical prediction of temperature elevation induced around metallic hip prostheses by traditional, split, and uniplanar gradient coils. Magnetic Resonance in Medicine, 2015, 74, 272-279.	1.9	19
81	Automated 3D quantitative assessment and measurement of alpha angles from the femoral head-neck junction using MR imaging. Physics in Medicine and Biology, 2015, 60, 7601-7616.	1.6	14
82	Compressed Sensing MRI via Two-stage Reconstruction. IEEE Transactions on Biomedical Engineering, 2015, 62, 110-118.	2.5	28
83	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
84	Automatic bone segmentation and bone-cartilage interface extraction for the shoulder joint from magnetic resonance images. Physics in Medicine and Biology, 2015, 60, 1441-1459.	1.6	19
85	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
86	Statistical shape model reconstruction with sparse anomalous deformations: Application to intervertebral disc herniation. Computerized Medical Imaging and Graphics, 2015, 46, 11-19.	3.5	4
87	Transient health symptoms of MRI staff working with 1.5 and 3.0 Tesla scanners in the UK. European Radiology, 2015, 25, 2718-2726.	2.3	32
88	Aliasing Artefact Suppression in Compressed Sensing MRI for Random Phase-Encode Undersampling. IEEE Transactions on Biomedical Engineering, 2015, 62, 2215-2223.	2.5	15
89	Microwave Hyperthermia for Breast Cancer Treatment Using Electromagnetic and Thermal Focusing Tested on Realistic Breast Models and Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2015, 63, 4426-4434.	3.1	70
90	Proton beam deflection in MRI fields: Implications for MRIâ€guided proton therapy. Medical Physics, 2015, 42, 2113-2124.	1.6	63

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91	Multidimensional Compressed Sensing MRI Using Tensor Decomposition-Based Sparsifying Transform. PLoS ONE, 2014, 9, e98441.	1.1	57
92	Early Prediction of Treatment Response in Advanced Gliomas with 18F-dopa Positron-Emission Tomography. Current Oncology, 2014, 21, 172-178.	0.9	8
93	Automatic hip cartilage segmentation from 3D MR images using arc-weighted graph searching. Physics in Medicine and Biology, 2014, 59, 7245-7266.	1.6	33
94	GPU accelerated high-dimensional compressed sensing MRI. , 2014, , .		3
95	Fully automatic lesion segmentation in breast MRI using meanâ€shift and graphâ€cuts on a region adjacency graph. Journal of Magnetic Resonance Imaging, 2014, 39, 795-804.	1.9	43
96	Collateral Thermal Effect of MRI-LINAC Gradient Coils on Metallic Hip Prostheses. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
97	Model for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:mr in MRI Using the Rotating RF Field. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-11.	0.7	9
98	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
99	Distance informed Track-Weighted Imaging (diTWI): A framework for sensitising streamline information to neuropathology. NeuroImage, 2014, 86, 60-66.	2.1	3
100	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
101	Exposure to Static and Time-Varying Magnetic Fields From Working in the Static Magnetic Stray Fields of MRI Scanners: A Comprehensive Survey in the Netherlands. Annals of Occupational Hygiene, 2014, 58, 1094-110.	1.9	24
102	Validity and reliability of computerized measurement of lumbar intervertebral disc height and volume from magnetic resonance images. Spine Journal, 2014, 14, 2773-2781.	0.6	20
103	Image registration guided, sparsity constrained reconstructions for dynamic MRI. Magnetic Resonance Imaging, 2014, 32, 1403-1417.	1.0	5
104	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
105	Amorphous Regions-of-Interest Projection Method for Simplified Longitudinal Comparison of Dynamic Regions in Cancer Imaging. IEEE Transactions on Biomedical Engineering, 2014, 61, 264-272.	2.5	1
106	Fibroblast proliferation alters cardiac excitation conduction and contraction: a computational study. Journal of Zhejiang University: Science B, 2014, 15, 225-242.	1.3	16
107	Modal Analysis of Currents Induced by Magnetic Resonance Imaging Gradient Coils. IEEE Transactions on Magnetics, 2014, 50, 945-948.	1.2	4
108	Focused shape models for hip joint segmentation in 3D magnetic resonance images. Medical Image Analysis, 2014, 18, 567-578.	7.0	58

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109	Improved l1-SPIRiT using 3D walsh transform-based sparsity basis. Magnetic Resonance Imaging, 2014, 32, 924-933.	1.0	6
110	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
111	The Australian Magnetic Resonance Imagingâ€“Linac Program. Seminars in Radiation Oncology, 2014, 24, 203-206.	1.0	299
112	Multilayer integral method for simulation of eddy currents in thin volumes of arbitrary geometry produced by MRI gradient coils. Magnetic Resonance in Medicine, 2014, 71, 1912-1922.	1.9	27
113	A MRI Rotary Phased Array Head Coil. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 548-556.	2.7	3
114	Sparsity-constrained SENSE reconstruction: An efficient implementation using a fast composite splitting algorithm. Magnetic Resonance Imaging, 2013, 31, 1218-1227.	1.0	17
115	Flanged-edge transverse gradient coil design for a hybrid LINACâ€“MRI system. Journal of Magnetic Resonance, 2013, 226, 70-78.	1.2	22
116	Automated bone segmentation from large field of view 3D MR images of the hip joint. Physics in Medicine and Biology, 2013, 58, 7375-7390.	1.6	57
117	Mutual informationâ€based binarisation of multiple images of an object: an application in medical imaging. IET Computer Vision, 2013, 7, 163-169.	1.3	6
118	Minimum maximum temperature gradient coil design. Magnetic Resonance in Medicine, 2013, 70, 584-594.	1.9	15
119	Hign acceleration with a rotating radiofrequency coil array (RRFCA) in parallel magnetic resonance imaging (MRI). , 2012, 2012, 1098-101.		3
120	Ultra-wideband balun using microstrip to slotline transitions. , 2012, , .		5
121	A Study of Mechanical Optimization Strategy for Cardiac Resynchronization Therapy Based on an Electromechanical Model. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-13.	0.7	6
122	Improving SAR estimations in MRI using subject-specific models. Physics in Medicine and Biology, 2012, 57, 8153-8171.	1.6	27
123	The Effect of Sigh on Cardiorespiratory Synchronization in Healthy Sleeping Infants. Sleep, 2012, 35, 1643-1650.	0.6	10
124	Rotational magnetic induction tomography. Measurement Science and Technology, 2012, 23, 025402.	1.4	9
125	A Finite Difference Method for the Design of Gradient Coils in MRIâ€”An Initial Framework. IEEE Transactions on Biomedical Engineering, 2012, 59, 2412-2421.	2.5	31
126	Wideband quasi-Yagi antenna with tapered driver. , 2012, , .		11

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127	Apparent Fibre Density: A novel measure for the analysis of diffusion-weighted magnetic resonance images. NeuroImage, 2012, 59, 3976-3994.	2.1	491
128	Simulation and analysis of the interactions between split gradient coils and a split magnet cryostat in an MRIâ€“PET system. Journal of Magnetic Resonance, 2012, 222, 8-15.	1.2	10
129	Automated detection, 3D segmentation and analysis of high resolution spine MR images using statistical shape models. Physics in Medicine and Biology, 2012, 57, 8357-8376.	1.6	90
130	Reorientation of fiber orientation distributions using apodized point spread functions. Magnetic Resonance in Medicine, 2012, 67, 844-855.	1.9	103
131	Minimax current density gradient coils: Analysis of coil performance and heating. Magnetic Resonance in Medicine, 2012, 68, 639-648.	1.9	23
132	Inverse field-based approach for simultaneous B1 mapping at high fields â€“ A phantom based study. Journal of Magnetic Resonance, 2012, 217, 27-35.	1.2	8
133	Automated Quantification of the Synchrogram by Recurrence Plot Analysis. IEEE Transactions on Biomedical Engineering, 2012, 59, 946-955.	2.5	11
134	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
135	Advanced Three-Dimensional Tailored RF Pulse Design in Volume Selective Parallel Excitation. IEEE Transactions on Medical Imaging, 2012, 31, 997-1007.	5.4	11
136	An orthogonalâ€based decoupling method for MRI phased array coil design. NMR in Biomedicine, 2012, 25, 835-842.	1.6	4
137	TUâ€Aâ€BRAâ€06: EPID Operation in a Biâ€Directional MRIâ€Linac System: A Monte Carlo Study. Medical Physics, 2012, 39, 3889-3889.	1.6	1
138	SU-E-T-20: Removal of Electron Contamination in Longitudinal Field MRI-Linac Systems: A Monte Carlo Study. Medical Physics, 2012, 39, 3706-3706.	1.6	0
139	A comparison study of different RF shields for an 8-element transceive small animal array at 9.4T. , 2011, 2011, 543-6.		0
140	Simulation of Gradient-Coil-Induced Eddy Currents and Their Effects on a Head-Only HTS MRI Magnet. IEEE Transactions on Applied Superconductivity, 2011, 21, 3592-3598.	1.1	21
141	A theoretical study for the inverse design of an ellipsoidal phased-array breast coil. , 2011, 2011, 539-42.		0
142	Simulation and analysis of split gradient coil performance in MRI. , 2011, 2011, 4149-52.		1
143	Compressed sensing MRI using Singular Value Decomposition based sparsity basis. , 2011, 2011, 5734-7.		8
144	Symmetric diffeomorphic registration of fibre orientation distributions. NeuroImage, 2011, 56, 1171-1180.	2.1	229

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145	Compressed sensing MRI with singular value decomposition-based sparsity basis. Physics in Medicine and Biology, 2011, 56, 6311-6325.	1.6	57
146	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
147	A Hybrid Field-Harmonics Approach for Passive Shimming Design in MRI. IEEE Transactions on Applied Superconductivity, 2011, 21, 60-67.	1.1	33
148	New Spatiotemporal Features for Improved Discrimination of Benign and Malignant Lesions in Dynamic Contrast-Enhanced-Magnetic Resonance Imaging of the Breast. Journal of Computer Assisted Tomography, 2011, 35, 645-652.	0.5	9
149	GPU-Accelerated FDTD Modeling of Radio-Frequency Fieldâ€“Tissue Interactions in High-Field MRI. IEEE Transactions on Biomedical Engineering, 2011, 58, 1789-1796.	2.5	34
150	Minimizing Hot Spot Temperature in Asymmetric Gradient Coil Design. IEEE Transactions on Biomedical Engineering, 2011, 58, 2418-2425.	2.5	5
151	A Reduced Order Explicit Dynamic Finite Element Algorithm for Surgical Simulation. IEEE Transactions on Medical Imaging, 2011, 30, 1713-1721.	5.4	23
152	Segmentation of the quadratus lumborum muscle using statistical shape modeling. Journal of Magnetic Resonance Imaging, 2011, 33, 1422-1429.	1.9	25
153	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
154	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
155	The optimization of an 8-channel transceive volume array for small animal MRI at 9.4T. , 2011, 2011, 2833-6.		0
156	Automated MR Hip Bone Segmentation. , 2011, , .		5
157	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
158	A MOM/FEM-based coil sensitivity mapping method for high-field parallel MRI. , 2011, 2011, 2837-40.		1
159	Eddy current simulation in thick cylinders of finite length induced by coils of arbitrary geometry. Journal of Magnetic Resonance, 2010, 207, 251-261.	1.2	31
160	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
161	Automatic Segmentation and Quantitative Analysis of the Articular Cartilages From Magnetic Resonance Images of the Knee. IEEE Transactions on Medical Imaging, 2010, 29, 55-64.	5.4	158
162	Denoising of Dynamic Contrast-Enhanced MR Images Using Dynamic Nonlocal Means. IEEE Transactions on Medical Imaging, 2010, 29, 302-310.	5.4	59

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163	Calculating temperature distributions for gradient coils. Concepts in Magnetic Resonance Part B, 2010, 37B, 146-159.	0.3	10
164	Tikhonov regularization approach for acoustic noise reduction in an asymmetric, selfâ€shielded MRI gradient coil. Concepts in Magnetic Resonance Part B, 2010, 37B, 167-179.	0.3	6
165	Designing gradient coils with reduced hot spot temperatures. Journal of Magnetic Resonance, 2010, 203, 91-99.	1.2	15
166	An electromagnetic reverse method of coil sensitivity mapping for parallel MRI â€“ Theoretical framework. Journal of Magnetic Resonance, 2010, 207, 59-68.	1.2	25
167	3D gradient coil design for open MRI systems. Journal of Magnetic Resonance, 2010, 207, 124-133.	1.2	12
168	Computational modelling of blood-flow-induced changes in blood electrical conductivity and its contribution to the impedance cardiogram. Physiological Measurement, 2010, 31, 13-33.	1.2	16
169	An improved cylindrical FDTD method and its application to field-tissue interaction study in MRI. , 2010, 2010, 3154-7.		0
170	Minimax current density coil design. Journal Physics D: Applied Physics, 2010, 43, 095001.	1.3	32
171	Strain Imaging of the Breast by Compression Microwave Imaging. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1229-1232.	2.4	48
172	Evaluating passively shielded gradient coil configurations for optimal eddy current compensation. Journal Physics D: Applied Physics, 2010, 43, 195005.	1.3	7
173	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
174	Joint Factor and Kinetic Analysis of Dynamic FDOPA PET Scans of Brain Cancer Patients. Lecture Notes in Computer Science, 2010, 13, 185-192.	1.0	2
175	Real-Time Surgical Simulation Using Reduced Order Finite Element Analysis. Lecture Notes in Computer Science, 2010, 13, 388-395.	1.0	2
176	Accurate Evaluation of RF Coil-tissue Interactions Using a Hybrid FDTD-MoM Method. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 212-216.	0.4	0
177	Optimal tissue types in the thoracic electrical impedance model for thoracic electrical bioimpedance (TEB) studies. , 2009, 2009, 3913-6.		2
178	Dental identification system based on unwrapped CT images. , 2009, 2009, 3549-52.		6
179	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
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