

Ji Chen

List of Publications by Year in Descending Order

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

124
papers

2,373
citations

19
h-index

47
g-index

166
ext. papers

2,970
ext. citations

3.3
avg, IF

4.73
L-index

#	Paper	IF	Citations
124	Body-loop related MRI radiofrequency-induced heating hazards: Observations, characterizations, and recommendations. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 337-348	4.4	0
123	A technique for the reduction of RF-induced heating of active implantable medical devices during MRI. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 349-364	4.4	0
122	Magnetic resonance conditionality of abandoned leads from active implantable medical devices at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 394-408	4.4	0
121	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1619-1630	2	17
120	A Cascaded Heterogeneous Equivalent Network for Evaluating RF-Induced Hazards on Active Implantable Medical Devices. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 1-9	2	
119	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 673-680	2	
118	Effects of patient orientations, landmark positions, and device positions on the MRI RF-induced heating for modular external fixation devices. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1669-1680	4.4	0
117	Fast Prediction of RF-induced Heating for Sacral Neuromodulation System Exposed to Multi-Channel 2 RF Field at 3T MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 4150-4162	0.9	0
116	Evaluation of the RF-induced lead-tip heating of AIMDs using a Volume-Weighed Tissue-Cluster Model for 1.5T MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 4150-4162	0.9	0
115	MR Conditionality of Abandoned Leads from Active Implantable Medical Devices at 1.5T. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 7412-7415	0.9	0
114	Reducing MRI RF-induced heating for the external fixation using capacitive structures. <i>Physics in Medicine and Biology</i> , 2020 , 65, 155017	3.8	0
113	Electromagnetic rock properties characterization and modeling using 3D micro-CT rock images. <i>Journal of Electromagnetic Waves and Applications</i> , 2020 , 34, 1073-1089	1.3	1
112	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6381-6389	5.2	4
111	MRI Evaluation of an Atrial-Anchored Transcatheter Mitral Valve Replacement Implant. <i>American Journal of Roentgenology</i> , 2020 , 214, 524-528	5.4	0
110	Evaluation of MRI Issues for a New Wirelessly Powered, Spinal Cord Stimulation Lead With Receiver. <i>American Journal of Roentgenology</i> , 2020 , 214, 406-412	5.4	0
109	Erratum to "A Transmission Line Model for the Evaluation of MRI RF-Induced Fields on Active Implantable Medical Devices" <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2468-2468 ^{4.1}		
108	Erratum to "On the Model Validation of Active Implantable Medical Device for MRI Safety Assessment" <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2469-2469	4.1	

107	On the Model Validation of Active Implantable Medical Device for MRI Safety Assessment. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2234-2242	4.1	7
106	Wire-based sternal closure: MRI-related heating at 1.5 T/64 MHz and 3 T/128 MHz based on simulation and experimental phantom study. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1055-1065	4.4	4
105	Impacts of the arm and leg postures on the RF-induced heating for the human body under MRI 2020 ,		1
104	Genetic algorithm search for the worst-case MRI RF exposure for a multiconfiguration implantable fixation system modeled using artificial neural networks. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2754-2764	4.4	2
103	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2689-2695	2	1
102	A counterpoise design for RF-induced heating reduction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 4200-4203	0.9	1
101	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 5423-5431	4.1	3
100	Impact of RF Shimming on RF-Induced Heating Near Implantable Medical Electrodes in a 3T MRI Coil. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 52-64	2	1
99	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 43-51	2	4
98	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 673-681	2	7
97	Efficient Computation of Green's Functions for Lossy Uniaxial Anisotropic Layered Media. <i>Radio Science</i> , 2019 , 54, 196-214	1.4	4
96	Computational and experimental investigation of RF-induced heating for multiple orthopedic implants. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1848-1858	4.4	13
95	On the development of equivalent medium for active implantable device radiofrequency safety assessment. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1164-1176	4.4	8
94	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019 , 3, 247-253	2.8	5
93	Investigations on Tissue-Simulating Medium for MRI RF Safety Assessment for Patients With Active Implantable Medical Devices. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1091-1097	2	5
92	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1423-1431	2	10
91	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1726-1732	2	4
90	On the Relationship Between Impedances of Active Implantable Medical Devices and Device Safety Under MRI RF Emission. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 1-9	2	6

89	A TDOA Localization Method for Nonline-of-Sight Scenarios. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2666-2676	4.9	16
88	A Fast and Accurate Transfer Function Validation Strategy Using Rotational Invariant Lead Trajectories 2019 ,		1
87	Three-dimensional curvy electronics created using conformal additive stamp printing. <i>Nature Electronics</i> , 2019 , 2, 471-479	28.4	72
86	Predicting MRI RF Exposure for Complex-shaped Medical Implants Using Artificial Neural Network 2019 ,		3
85	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1432-1437	2	5
84	Evaluations of the MRI RF-Induced Heating for Helical Stents Under a 1.5T MRI System. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 57-64	2	10
83	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 598-604	2	17
82	Scattering reduction of perfectly electric conductive cylinder by coating plasma and metamaterial. <i>Optik</i> , 2018 , 161, 98-105	2.5	8
81	Accelerated Computation of Triaxial Induction Tool Response for Arbitrarily Deviated Wells in Planar-Stratified Transversely Isotropic Formations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 902-906	4.1	10
80	A Finite-Difference-Based Multiscale Approach for Electromagnetic Digital Rock Modeling. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 66-73	1.5	2
79	A Transmission Line Model for the Evaluation of MRI RF-Induced Fields on Active Implantable Medical Devices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 4271-4281	4.1	22
78	Evaluation of MRI RF electromagnetic field induced heating near leads of cochlear implants. <i>Physics in Medicine and Biology</i> , 2018 , 63, 135020	3.8	12
77	MRI RF-Induced Heating in Heterogeneous Human Body with Implantable Medical Device 2018 ,		2
76	Numerical Study on MRI RF Heating for Circular External Fixators under 1.5T MRI 2018 ,		1
75	Study on the searching strategies of assessing the MRI RF-induced heating for an implantable plate and screw system 2018 ,		1
74	Transparent and Nontransparent Microstrip Antennas on a CubeSat: Novel low-profile antennas for CubeSats improve mission reliability.. <i>IEEE Antennas and Propagation Magazine</i> , 2017 , 59, 59-68	1.7	32
73	Variability Analysis of Crosstalk Among Differential Vias Using Polynomial-Chaos and Response Surface Methods. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 1368-1378	2	12
72	Numerical evaluation of RF-induced heating for various esophageal stent designs under MRI 1.5 Tesla system. <i>Electromagnetic Biology and Medicine</i> , 2017 , 36, 379-386	2.2	5

71	Fast prediction of MRI RF-induced heating for implantable plate devices using neural network 2017,		3
70	Numerical evaluation of RF-induced heating for gap and pitch variation of helical stent under MRI 2017,		1
69	Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017 , 3, e1701222	14.3	88
68	Efficient broadband electromagnetic modeling of anechoic chambers 2017,		1
67	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 805-812	2	8
66	Impacts of RF shimming on MRI induced heating of implantable medical lead in 3T birdcage coil 2017,		4
65	Impacts of RF shimming on local SAR caused by MRI 3T birdcage coil near femoral plate implants 2017,		1
64	Low frequency modeling for electromagnetic analysis of arbitrary anechoic chambers 2016,		2
63	Wireless Power Transfer Along Oil Pipe Using Ferrite Materials. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1	2	3
62	A novel design of implantable medical stent for reducing the MRI RF-induced heating 2016,		1
61	Variability analysis of crosstalk among pairs of differential vias using polynomial-chaos and design of experiments methods 2016,		8
60	RF-induced heating comparison between in-vivo and in-phantom for 1.5T MRI 2016,		3
59	Numerical study of SAR for multi-component orthopaedic hip replacement system during MRI 2016		10
58	Self-Correcting Magnetic Tracking in Dynamic Medical Environments. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	1
57	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 635-642	2	16
56	An Efficient Approach to Estimate MRI RF Field Induced In Vivo Heating for Small Medical Implants. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 643-650	2	14
55	An effective receiver sensitivity measurement 2015,		10
54	MRI induced heating for fully implanted, partially implanted and minimally implanted medical electrode leads 2015,		3

53	A Technique to Evaluate MRI-Induced Electric Fields at the Ends of Practical Implanted Lead. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 305-313	4.1	71
52	An Analysis of Conductor Surface Roughness Effects on Signal Propagation for Stripline Interconnects. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014 , 56, 707-714	2	18
51	A study of antenna efficiency and MRI compatibility of cardiac stent 2014 ,		1
50	Using scaling approach to estimate MRI RF field induced heating for small medical implant 2014 ,		1
49	Effect of insulating layer material on RF-induced heating for external fixation system in 1.5 T MRI system. <i>Electromagnetic Biology and Medicine</i> , 2014 , 33, 223-7	2.2	7
48	Computational and experimental studies of an orthopedic implant: MRI-related heating at 1.5-T/64-MHz and 3-T/128-MHz. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 491-7	5.6	43
47	Efficient evaluation of MRI-induced electric fields in the vicinity of implantable lead 2013 ,		4
46	Numerical investigations of MRI RF field induced heating for external fixation devices. <i>BioMedical Engineering OnLine</i> , 2013 , 12, 12	4.1	14
45	Transparent microstrip antennas for CubeSat applications 2013 ,		13
44	Analysis of Electrical Property Variations for Composite Medium Using a Stochastic Collocation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 272-279	2	3
43	Magnetic Tracking Inside Conducting Bores for Radiotherapy Tumor Localization Systems. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 395-398	2	4
42	The Generalized ICN for 25Gbps+ channel using NRZ, PAM-M or Duobinary coding scheme 2012 ,		3
41	Computational study of external fixation devices surface heating in MRI RF environment 2012 ,		6
40	Efficient Low-Frequency Breakdown Free Full-Wave PEEC Modeling Based on Geometrical Optics DCIM. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 1500-1512	4.1	2
39	The Fundamental Physics of Directive Beaming at Microwave and Optical Frequencies and the Role of Leaky Waves. <i>Proceedings of the IEEE</i> , 2011 , 99, 1780-1805	14.3	78
38	Numerical modeling of thin-film bulk acoustic wave resonators using a Crank-Nicolson finite-difference time-domain method. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 1719-1721	1.2	1
37	Analysis of via impedance variations with a Polynomial Chaos method 2011 ,		7
36	FDTD/PBC algorithm for skewed grid periodic structures 2010 ,		2

35	The Virtual Family--development of surface-based anatomical models of two adults and two children for dosimetric simulations. <i>Physics in Medicine and Biology</i> , 2010 , 55, N23-38	3.8	968
34	FDTD Analysis of Periodic Structures With Arbitrary Skewed Grid. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2649-2657	4.9	19
33	Finite difference time domain modeling of finite-sized electromagnetic source over periodic structure via a plane wave spectral expansion approach. <i>Radio Science</i> , 2010 , 45, n/a-n/a	1.4	2
32	An Efficient TIS Measurement Technique Based on RSSI for Wireless Mobile Stations. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 2414-2419	5.2	20
31	Design of composite materials using a genetic algorithm 2009 ,		2
30	Prediction of Effective Permittivity of Diphasic Dielectrics as a Function of Frequency. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2009 , 16, 793-808	2.3	16
29	An Efficient FDTD Method for Axially Symmetric LWD Environments. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008 , 46, 1652-1656	8.1	12
28	A simple and efficient FDTD/PBC algorithm for scattering analysis of periodic structures. <i>Radio Science</i> , 2007 , 42, n/a-n/a	1.4	35
27	FDTD Modeling of Finite Electromagnetic Source over Periodic Structure via a Spectral Expansion Approach. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		1
26	Performance of Cooperative Time-Reversal Communication in a Mobile Wireless Environment. <i>International Journal of Distributed Sensor Networks</i> , 2007 , 3, 59-68	1.7	1
25	ASMBDTD: A Technique for Calculating the Field of a Finite Source in the Presence of an Infinite Periodic Artificial Material. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 271-273	2.6	17
24	An efficient two-dimensional FDTD method for bio-electromagnetic applications. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1391-1394	2	4
23	Effects of manufacturing artifacts on infrared filter performance. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 1749-1754	1.2	1
22	AUTOMATIC GEOMETRY-DRIVEN OFDM QUALITY-OF-SERVICE ANALYSIS FOR INDOOR ENVIRONMENTS. <i>Journal of Interconnection Networks</i> , 2006 , 07, 147-161	0.4	1
21	FDTD Simulation of Infrared FSS Transmission Spectrum from Oblique Incidence 2006 ,		2
20	Evaluations of Specific Absorption Rate and Temperature Increase Within Pregnant Female Models in Magnetic Resonance Imaging Birdcage Coils. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4472-4478	4.1	54
19	Multigrid ADI method for two-dimensional electromagnetic simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 715-720	4.9	6
18	FDTD Analysis of Periodic Structures at Arbitrary Incidence Angles: A Simple and Efficient Implementation of the Periodic Boundary Conditions 2006 ,		6

17	A performance study of the iterative ADI-FDTD method. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 3413-3417	4.9	2
16	Pre-iterative ADI-FDTD method for conductive medium. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1913-1918	4.1	18
15	An iterative ADI-FDTD with reduced splitting error. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 92-94	2.6	76
14	An ADI-FDTD method for periodic structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 2343-2346	4.9	24
13	Analytical model for the rectangular power-ground structure including radiation loss. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 10-16	2	22
12	Cooperative time-reversal communication in wireless sensor networks 2005 ,		3
11	AMG enhanced CN-FDTD method for low frequency electromagnetic applications 2004 ,		2
10	Modeling Electrical Properties of Gold Films at Infrared Frequency Using FDTD Method. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004 , 25, 1263-1270		29
9	An efficient simulation technique for lossy substrate interconnects characterization. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 305-308	1.2	0
8	Development of a higher-order ADI-FDTD method. <i>Microwave and Optical Technology Letters</i> , 2003 , 37, 8-12	1.2	15
7	A parameter optimized ADI-FDTD method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2003 , 2, 118-121	3.8	28
6	Full-wave analysis and modeling of multiconductor transmission lines via 2-D-FDTD and signal-processing techniques. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 570-577	4.1	10
5	Correction to "Numerical Simulation Of SAR And B/sub 1/-field Inhomogeneity Of Shielded RF Coils Loaded With The Human Head". <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 949-949	5	2
4	Numerical simulation of SAR and B1-field inhomogeneity of shielded RF coils loaded with the human head. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 650-9	5	102
3	On the SAR and field inhomogeneity of birdcage coils loaded with the human head. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 953-63	4.4	72
2	Via coupling within power-return plane structures considering the radiation loss		3
1	Investigations of manufacture artifacts on nano-scale FSS performance		1