

List of Publications by Citations

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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	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
123	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
122	Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017 , 3, e1701222	14.3	88
121	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
120	An iterative ADI-FDTD with reduced splitting error. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 92-94	2.6	76
119	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
118	Three-dimensional curvy electronics created using conformal additive stamp printing. <i>Nature Electronics</i> , 2019 , 2, 471-479	28.4	72
117	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
116	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
115	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
114	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
113	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
112	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
111	A parameter optimized ADI-FDTD method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2003 , 2, 118-121	3.21	28
110	An ADI-FDTD method for periodic structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 2343-2346	4.9	24
109	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
108	Analytical model for the rectangular power-ground structure including radiation loss. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 10-16	2	22

107	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
106	FDTD Analysis of Periodic Structures With Arbitrary Skewed Grid. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2649-2657	4.9	19
105	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
104	Pre-iterative ADI-FDTD method for conductive medium. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1913-1918	4.1	18
103	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018 , 60, 598-604	2	17
102	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
101	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1619-1630	2	17
100	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 635-642	2	16
99	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
98	A TDOA Localization Method for Nonline-of-Sight Scenarios. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2666-2676	4.9	16
97	Development of a higher-order ADI-FDTD method. <i>Microwave and Optical Technology Letters</i> , 2003 , 37, 8-12	1.2	15
96	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
95	Numerical investigations of MRI RF field induced heating for external fixation devices. <i>BioMedical Engineering OnLine</i> , 2013 , 12, 12	4.1	14
94	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
93	Transparent microstrip antennas for CubeSat applications 2013 ,		13
92	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
91	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
90	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

89	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
88	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1423-1431	2	10
87	An effective receiver sensitivity measurement 2015 ,		10
86	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
85	Numerical study of SAR for multi-component orthopaedic hip replacement system during MRI 2016 ,		10
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	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
82	Scattering reduction of perfectly electric conductive cylinder by coating plasma and metamaterial. <i>Optik</i> , 2018 , 161, 98-105	2.5	8
81	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 805-812	2	8
80	Variability analysis of crosstalk among pairs of differential vias using polynomial-chaos and design of experiments methods 2016 ,		8
79	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
78	Analysis of via impedance variations with a Polynomial Chaos method 2011 ,		7
77	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
76	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 673-681	2	7
75	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
74	Computational study of external fixation devices surface heating in MRI RF environment 2012 ,		6
73	Multigrid ADI method for two-dimensional electromagnetic simulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 715-720	4.9	6
72	FDTD Analysis of Periodic Structures at Arbitrary Incidence Angles: A Simple and Efficient Implementation of the Periodic Boundary Conditions 2006 ,		6

71	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
70	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019 , 3, 247-253	2.8	5
69	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
68	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1432-1437	2	5
67	Efficient Computation of Green's Functions for Lossy Uniaxial Anisotropic Layered Media. <i>Radio Science</i> , 2019 , 54, 196-214	1.4	4
66	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6381-6389	5.2	4
65	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 1726-1732	2	4
64	Magnetic Tracking Inside Conducting Bores for Radiotherapy Tumor Localization Systems. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 395-398	2	4
63	Efficient evaluation of MRI-induced electric fields in the vicinity of implantable lead 2013 ,		4
62	Impacts of RF shimming on MRI induced heating of implantable medical lead in 3T birdcage coil 2017 ,		4
61	An efficient two-dimensional FDTD method for bio-electromagnetic applications. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1391-1394	2	4
60	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
59	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 43-51	2	4
58	Fast prediction of MRI RF-induced heating for implantable plate devices using neural network 2017 ,		3
57	Wireless Power Transfer Along Oil Pipe Using Ferrite Materials. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1	2	3
56	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
55	MRI induced heating for fully implanted, partially implanted and minimally implanted medical electrode leads 2015 ,		3
54	The Generalized ICN for 25Gbps+ channel using NRZ, PAM-M or Duobinary coding scheme 2012 ,		3

53	Via coupling within power-return plane structures considering the radiation loss		3
52	Cooperative time-reversal communication in wireless sensor networks 2005 ,		3
51	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 5423-5431	4.1	3
50	RF-induced heating comparison between in-vivo and in-phantom for 1.5T MRI 2016 ,		3
49	Predicting MRI RF Exposure for Complex-shaped Medical Implants Using Artificial Neural Network 2019 ,		3
48	Low frequency modeling for electromagnetic analysis of arbitrary anechoic chambers 2016 ,		2
47	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
46	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
45	FDTD/PBC algorithm for skewed grid periodic structures 2010 ,		2
44	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
43	Design of composite materials using a genetic algorithm 2009 ,		2
42	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
41	FDTD Simulation of Infrared FSS Transmission Spectrum from Oblique Incidence 2006 ,		2
40	A performance study of the iterative ADI-FDTD method. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 3413-3417	4.9	2
39	AMG enhanced CN-FDTD method for low frequency electromagnetic applications 2004 ,		2
38	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
37	MRI RF-Induced Heating in Heterogeneous Human Body with Implantable Medical Device 2018 ,		2
36	Self-Correcting Magnetic Tracking in Dynamic Medical Environments. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	1

35	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
34	Numerical evaluation of RF-induced heating for gap and pitch variation of helical stent under MRI 2017 ,		1
33	A novel design of implantable medical stent for reducing the MRI RF-induced heating 2016 ,		1
32	Efficient broadband electromagnetic modeling of anechoic chambers 2017 ,		1
31	Impacts of RF shimming on local SAR caused by MRI 3T birdcage coil near femoral plate implants 2017 ,		1
30	A study of antenna efficiency and MRI compatibility of cardiac stent 2014 ,		1
29	Using scaling approach to estimate MRI RF field induced heating for small medical implant 2014 ,		1
28	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
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	Effects of manufacturing artifacts on infrared filter performance. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 1749-1754	1.2	1
25	AUTOMATIC GEOMETRY-DRIVEN OFDM QUALITY-OF-SERVICE ANALYSIS FOR INDOOR ENVIRONMENTS. <i>Journal of Interconnection Networks</i> , 2006 , 07, 147-161	0.4	1
24	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
23	Investigations of manufacture artifacts on nano-scale FSS performance		1
22	Impacts of the arm and leg postures on the RF-induced heating for the human body under MRI 2020 ,		1
21	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2689-2695	2	1
20	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
19	A Fast and Accurate Transfer Function Validation Strategy Using Rotational Invariant Lead Trajectories 2019 ,		1
18	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

17	Numerical Study on MRI RF Heating for Circular External Fixators under 1.5T MRI 2018 ,		1
16	Study on the searching strategies of assessing the MRI RF-induced heating for an implantable plate and screw system 2018 ,		1
15	Reducing MRI RF-induced heating for the external fixation using capacitive structures. <i>Physics in Medicine and Biology</i> , 2020 , 65, 155017	3.8	o
14	MRI Evaluation of an Atrial-Anchored Transcatheter Mitral Valve Replacement Implant. <i>American Journal of Roentgenology</i> , 2020 , 214, 524-528	5.4	o
13	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	o
12	An efficient simulation technique for lossy substrate interconnects characterization. <i>Microwave and Optical Technology Letters</i> , 2004 , 40, 305-308	1.2	o
11	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	o
10	Body-loop related MRI radiofrequency-induced heating hazards: Observations, characterizations, and recommendations. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 337-348	4.4	o
9	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	o
8	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	o
7	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, 4159-4162	0.9	o
6	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, 4159-4162	0.9	o
5	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	o
4	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 ¹		
3	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
2	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
1	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 673-680		2