Wolfgang Kainz

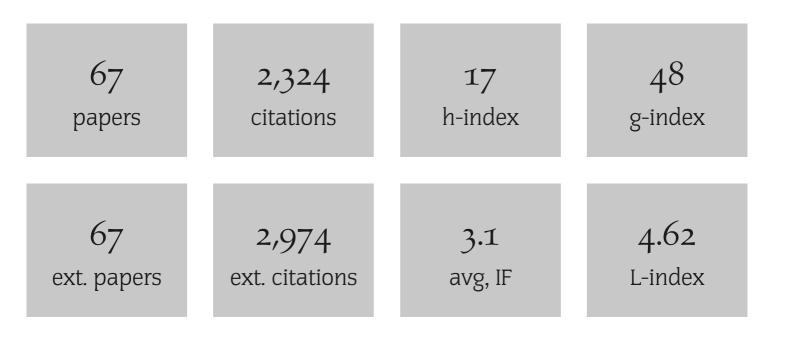
List of Publications by Year in Descending Order

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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.



#	Paper	IF	Citations
67	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
66	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
65	Correction to MRSaiFE: An Al-Based Approach Toward the Real-Time Prediction of Specific Absorption Rate (IEEE Access, 2022, 10, 19925-19925)	3.5	
64	MRSaiFE: An Al-based Approach Towards the Real-Time Prediction of Specific Absorption Rate. <i>IEEE Access</i> , 2021 , 9, 140824-140834	3.5	1
63	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1619-1630	2	17
62	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	
61	. IEEE Transactions on Electromagnetic Compatibility, 2021 , 63, 673-680	2	
60	Radiofrequency-induced heating of broken and abandoned implant leads during magnetic resonance examinations. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2156-2164	4.4	2
59	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
58	Modeling radio-frequency energy-induced heating due to the presence of transcranial electric stimulation setup at 3T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 793-80	o 7 .8	2
57	. IEEE Transactions on Instrumentation and Measurement, 2020 , 69, 6381-6389	5.2	4
56	. IEEE Transactions on Microwave Theory and Techniques, 2020 , 68, 509-515	4.1	3
55	Modeling Electromagnetic Exposure in Humans Inside a Whole-Body Birdcage Coil Excited by a Two-Channel Parallel Transmitter Operated at 123 MHz. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2020 , 4, 247-253	2.8	1
54	Erratum to MRI Heating Reduction for External Fixation Devices Using Absorption Material [Aug 15 635-642]. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 981-981	2	
53	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, 2468-240	6 8 .1	
52	Erratum to IDn the Model Validation of Active Implantable Medical Device for MRI Safety Assessment IIEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2469-2469	4.1	
51	Comparison of Different Assessment Quantities to Evaluate Lead Electromagnetic Model for Radio Frequency Energy-Induced Heating. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2020 , 4, 157-163	2.8	5

50	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
49	Modeling radiofrequency responses of realistic multi-electrode leads containing helical and straight wires. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 421-437	2.8	5
48	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
47	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, 275	54 2 76	4 ²
46	. IEEE Transactions on Electromagnetic Compatibility, 2020 , 62, 2689-2695	2	1
45	. IEEE Transactions on Microwave Theory and Techniques, 2020 , 68, 5423-5431	4.1	3
44	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
43	. IEEE Transactions on Electromagnetic Compatibility, 2020 , 62, 43-51	2	4
42	. IEEE Transactions on Electromagnetic Compatibility, 2020 , 62, 673-681	2	7
41	Influence of a Metallic Shield on RF-Induced Heating of a Lead with Straight and Helical Wires 2019,		2
40	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
39	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
38	. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019 , 3, 247-253	2.8	5
37	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
36	. IEEE Transactions on Electromagnetic Compatibility, 2019 , 61, 1423-1431	2	10
35	. IEEE Transactions on Electromagnetic Compatibility, 2019 , 61, 1726-1732	2	4
34	Anatomical Model Uncertainty for RF Safety Evaluation of Metallic Implants Under MRI Exposure. <i>Bioelectromagnetics</i> , 2019 , 40, 458-471	1.6	4
33	. IEEE Transactions on Electromagnetic Compatibility, 2019 , 61, 1432-1437	2	5

32	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering - A Topical Review. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 1-23	4.2	31
31	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
30	. IEEE Transactions on Electromagnetic Compatibility, 2018 , 60, 598-604	2	17
29	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
28	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
27	Functionalized Anatomical Models for Computational Life Sciences. Frontiers in Physiology, 2018 , 9, 159	44.6	13
26	Lead Electromagnetic Model to Evaluate RF-Induced Heating of a Coax Lead: A Numerical Case Study at 128 MHz. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2018 , 2, 286-293	2.8	13
25	Novel mechanistic model and computational approximation for electromagnetic safety evaluations of electrically short implants. <i>Physics in Medicine and Biology</i> , 2018 , 63, 225015	3.8	4
24	Pregnant women models analyzed for RF exposure and temperature increase in 3T RF shimmed birdcages. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 2048-2056	4.4	34
23	The Role of Computational Modeling and Simulation in the Total Product Life Cycle of Peripheral Vascular Devices. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017 , 11,	1.3	24
22	. IEEE Transactions on Electromagnetic Compatibility, 2017 , 59, 805-812	2	8
21	Sensitivity of the transfer function of a helix lead on the dielectric properties of the surrounding media: A case study 2017 ,		7
20	Impacts of RF shimming on MRI induced heating of implantable medical lead in 3T birdcage coil 2017 ,		4
19	Virtual population-based assessment of the impact of 3 Tesla radiofrequency shimming and thermoregulation on safety and B1 + uniformity. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 986-97	4.4	32
18	Functionalized anatomical models for EM-neuron Interaction modeling. <i>Physics in Medicine and Biology</i> , 2016 , 61, 4390-401	3.8	17
17	Numerical study of SAR for multi-component orthopaedic hip replacement system during MRI 2016		10
16	. IEEE Transactions on Electromagnetic Compatibility, 2015 , 57, 635-642	2	16
15	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. <i>PLoS ONE</i> , 2015 , 10, e0124126	3.7	127

LIST OF PUBLICATIONS

14	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
13	Whole-body and local RF absorption in human models as a function of anatomy and position within 1.5T MR body coil. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 839-45	4.4	43
12	Thermal tissue damage model analyzed for different whole-body SAR and scan durations for standard MR body coils. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 421-31	4.4	61
11	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
10	Development of a new generation of high-resolution anatomical models for medical device evaluation: the Virtual Population 3.0. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5287-303	3.8	221
9	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
8	Efficient evaluation of MRI-induced electric fields in the vicinity of implantable lead 2013,		4
7	Evaluation of the RF heating of a generic deep brain stimulator exposed in 1.5 T magnetic resonance scanners. <i>Bioelectromagnetics</i> , 2013 , 34, 104-13	1.6	50
6	Computational study of external fixation devices surface heating in MRI RF environment 2012,		6
5	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. <i>Physiological Measurement</i> , 2012 , 33, 117-30	2.9	18
4	The Virtual Familydevelopment 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
3	Complexity of MRI induced heating on metallic leads: experimental measurements of 374 configurations. <i>BioMedical Engineering OnLine</i> , 2008 , 7, 11	4.1	110
2	Comparisons of Computed Mobile Phone Induced SAR in the SAM Phantom to That in Anatomically Correct Models of the Human Head. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006 , 48, 397-4	10 ² 7	115
1	Dosimetric comparison of the specific anthropomorphic mannequin (SAM) to 14 anatomical head models using a novel definition for the mobile phone positioning. <i>Physics in Medicine and Biology</i> , 2005, 50, 3423-45.	3.8	81