Earl Zastrow

List of Publications by Year
in descending order

14	561	1040056 9	1125743 13
papers	citations	h-index	g-index

14	14	14	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Induced radiofrequency fields in patients undergoing MR examinations: insights for risk assessment. Physics in Medicine and Biology, 2021, 66, 185014.	3.0	7
2	Efficient and Reliable Assessment of the Maximum Local Tissue Temperature Increase at the Electrodes of Medical Implants under MRI Exposure. Bioelectromagnetics, 2019, 40, 422-433.	1.6	5
3	Anatomical Model Uncertainty for RF Safety Evaluation of Metallic Implants Under MRI Exposure. Bioelectromagnetics, 2019, 40, 458-471.	1.6	12
4	Novel mechanistic model and computational approximation for electromagnetic safety evaluations of electrically short implants. Physics in Medicine and Biology, 2018, 63, 225015.	3.0	11
5	Dataâ€Driven Experimental Evaluation Method for the Safety Assessment of Implants With Respect to RFâ€Induced Heating During MRI. Radio Science, 2018, 53, 700-709.	1.6	8
6	On the estimation of the worst-case implant-induced RF-heating in multi-channel MRI. Physics in Medicine and Biology, 2017, 62, 4711-4727.	3.0	9
7	Virtual populationâ€based assessment of the impact of 3 Tesla radiofrequency shimming and thermoregulation on safety and B₁+ uniformity. Magnetic Resonance in Medicine, 2016, 76, 986-997.	3.0	42
8	Heating and Safety Concerns of the Radio-Frequency Field in MRI. Current Radiology Reports, 2015, 3, 1.	1.4	24
9	Convex optimization of MRI exposure for mitigation of RF-heating from active medical implants. Physics in Medicine and Biology, 2015, 60, 7293-7308.	3.0	18
10	Time-Multiplexed Beamforming for Noninvasive Microwave Hyperthermia Treatment. IEEE Transactions on Biomedical Engineering, 2011, 58, 1574-1584.	4.2	47
11	3D computational study of non-invasive patient-specific microwave hyperthermia treatment of breast cancer. Physics in Medicine and Biology, 2010, 55, 3611-3629.	3.0	73
12	Development of Anatomically Realistic Numerical Breast Phantoms With Accurate Dielectric Properties for Modeling Microwave Interactions With the Human Breast. IEEE Transactions on Biomedical Engineering, 2008, 55, 2792-2800.	4.2	254
13	A Computational Study of Time Reversal Techniques for Ultra-Wideband Microwave Hyperthermia Treatment of Breast Cancer. , 2007, , .		20
14	Safety assessment of breast cancer detection via ultrawideband microwave radar operating in pulsed-radiation mode. Microwave and Optical Technology Letters, 2007, 49, 221-225.	1.4	31