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	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
2	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
3	Time-Multiplexed Beamforming for Noninvasive Microwave Hyperthermia Treatment. IEEE Transactions on Biomedical Engineering, 2011, 58, 1574-1584.	4.2	47
4	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
5	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
6	Heating and Safety Concerns of the Radio-Frequency Field in MRI. Current Radiology Reports, 2015, 3, 1.	1.4	24
7	A Computational Study of Time Reversal Techniques for Ultra-Wideband Microwave Hyperthermia Treatment of Breast Cancer. , 2007, , .		20
8	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
9	Anatomical Model Uncertainty for RF Safety Evaluation of Metallic Implants Under MRI Exposure. Bioelectromagnetics, 2019, 40, 458-471.	1.6	12
10	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
11	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
12	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
13	Induced radiofrequency fields in patients undergoing MR examinations: insights for risk assessment. Physics in Medicine and Biology, 2021, 66, 185014.	3.0	7
14	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