

Jeffrey W Hand

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

698
citations

623734

14
h-index

642732

23
g-index

26
all docs

26
docs citations

26
times ranked

697
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and observation of temperature changes in Vivo using MRI. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 358-369.	3.0	110
2	Focusing of High-Intensity Ultrasound Through the Rib Cage Using a Therapeutic Random Phased Array. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 888-906.	1.5	91
3	Observation by MR Imaging of In Vivo Temperature Changes Induced by Radio Frequency Hyperthermia. <i>Journal of Computer Assisted Tomography</i> , 1990, 14, 430-436.	0.9	78
4	Electromagnetic and thermal modeling of SAR and temperature fields in tissue due to an RF decoupling coil. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 183-192.	3.0	55
5	In-fibre Bragg gratings for ultrasonic medical applications. <i>Measurement Science and Technology</i> , 1997, 8, 1050-1054.	2.6	48
6	Thermal modelling using discrete vasculature for thermal therapy: A review. <i>International Journal of Hyperthermia</i> , 2013, 29, 336-345.	2.5	41
7	Mechanical Testing of Human Cardiac Tissue: Some Implications for MRI Safety. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005, 7, 835-840.	3.3	38
8	Experimental verification of numerically predicted electric field distributions produced by a radiofrequency coil. <i>Physics in Medicine and Biology</i> , 1997, 42, 1395-1402.	3.0	29
9	Heating of biological tissues by two-dimensional phased arrays with random and regular element distributions. <i>Acoustical Physics</i> , 2004, 50, 222-231.	1.0	24
10	Specific absorption rate in neonates undergoing magnetic resonance procedures at 1.5 T and 3 T. <i>NMR in Biomedicine</i> , 2015, 28, 344-352.	2.8	23
11	SAR and Temperature Changes in the Leg Due to an RF Decoupling Coil at Frequencies Between 64 and 213 MHz. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 68-74.	3.4	22
12	Assessment of magnetic field (4.7 T) induced forces on prosthetic heart valves and annuloplasty rings. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 311-317.	3.4	22
13	Comparison between simulated decoupling regimes for specific absorption rate prediction in parallel transmit MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1423-1434.	3.0	21
14	Numerical prediction of temperature elevation induced around metallic hip prostheses by traditional, split, and uniplanar gradient coils. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 272-279.	3.0	19
15	Combined ultrasound and temperature sensor using a fibre Bragg grating. <i>Optics Communications</i> , 1999, 171, 225-231.	2.1	12
16	Specific absorption rate and temperature in neonate models resulting from exposure to a 7T head coil. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1299-1313.	3.0	12
17	Design and calibration of electric field probes in the range 10 - 120 MHz. <i>Physics in Medicine and Biology</i> , 1997, 42, 1387-1394.	3.0	11
18	Translational and rotational forces on heart valve prostheses subjected ex vivo to a 4.7-T MR system. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 653-659.	3.4	11

#	ARTICLE	IF	CITATIONS
19	Hyperthermia Therapy Physics. Medical Radiology, 1995, , 315-363.	0.1	10
20	An investigation into the combined effects of X-irradiation and microwave heating on pig skin. International Journal of Radiation Oncology Biology Physics, 1980, 6, 59-66.	0.8	5
21	Pre-clinical evaluation of a two-channel microwave hyperthermia system with adaptive phase control in a large animal. International Journal of Hyperthermia, 1999, 15, 495-507.	2.5	5
22	Ultrasound hyperthermia and the prediction of heating. , 0, , .		5
23	Evaluation of specific absorption rate and heating in children exposed to a <scp>7T MRI</scp> head coil. Magnetic Resonance in Medicine, 2022, 88, 1434-1449.	3.0	4
24	Rapporteur report: Basics and technology and metrology and standards. Progress in Biophysics and Molecular Biology, 2007, 93, 192-194.	2.9	1
25	Metrology for MRI Safety. , 2015, , .		1