

R Jason Stafford

List of Publications by Year in descending order

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41
papers

1,500
citations

516710

16
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

2439
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting recurrent prostate Cancer using multiparametric MRI, influence of PSA and Gleason grade. Cancer Imaging, 2021, 21, 3.	2.8	11
2	AAPM Task Group 241: A medical physicist's guide to MRI-guided focused ultrasound body systems. Medical Physics, 2021, 48, e772-e806.	3.0	9
3	A dynamic susceptibility contrast MRI digital reference object for testing software with leakage correction: Effect of background simulation. Medical Physics, 2021, 48, 6051-6059.	3.0	2
4	Predictors of Local Control of Brain Metastasis Treated With Laser Interstitial Thermal Therapy. Neurosurgery, 2020, 87, 112-122.	1.1	30
5	Developing an intraoperative 3T MRI-guided brachytherapy program within a diagnostic imaging suite: Methods, process workflow, and value-based analysis. Brachytherapy, 2020, 19, 427-437.	0.5	12
6	The use of laser interstitial thermal therapy in the treatment of brain metastases: a literature review. International Journal of Hyperthermia, 2020, 37, 53-60.	2.5	11
7	Quantitative Dynamic Contrast-Enhanced MRI Identifies Radiation-Induced Vascular Damage in Patients With Advanced Osteoradionecrosis: Results of a Prospective Study. International Journal of Radiation Oncology Biology Physics, 2020, 108, 1319-1328.	0.8	13
8	Clinical utility and value contribution of an MRI-positive line marker for image-guided brachytherapy in gynecologic malignancies. Brachytherapy, 2020, 19, 305-315.	0.5	6
9	Mathematical modeling of mass and energy transport for thermoembolization. International Journal of Hyperthermia, 2020, 37, 356-365.	2.5	3
10	An information theory model for optimizing quantitative magnetic resonance imaging acquisitions. Physics in Medicine and Biology, 2020, 65, 225008.	3.0	4
11	The Role of the Medical Physicist in MR Safety. Journal of the American College of Radiology, 2019, 16, 838-839.	1.8	0
12	Temperature mapping of exothermic <i>in situ</i> chemistry: imaging of thermoembolization via MR. International Journal of Hyperthermia, 2019, 36, 729-737.	2.5	4
13	Dynamic Contrast-Enhanced MRI in Patients with Brain Metastases Undergoing Laser Interstitial Thermal Therapy: A Pilot Study. American Journal of Neuroradiology, 2019, 40, 1451-1457.	2.4	5
14	Immunotherapy response evaluation with magnetic resonance elastography (MRE) in advanced HCC. , 2019, 7, 329.		33
15	A heterogeneous tissue model for treatment planning for magnetic resonance-guided laser interstitial thermal therapy. International Journal of Hyperthermia, 2018, 34, 943-952.	2.5	9
16	Volumetric response of progressing post-SRS lesions treated with laser interstitial thermal therapy. Journal of Neuro-Oncology, 2018, 137, 57-65.	2.9	36
17	Theoretical model for laser ablation outcome predictions in brain: calibration and validation on clinical MR thermometry images. International Journal of Hyperthermia, 2018, 34, 101-111.	2.5	9
18	A methodology for thermal dose model parameter development using perioperative MRI. International Journal of Hyperthermia, 2018, 34, 687-696.	2.5	6

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19	Developing and characterizing MR/CT-visible materials used in QA phantoms for MR/gRT systems. Medical Physics, 2018, 45, 773-782.	3.0	27
20	Practical guidelines for handling head and neck computed tomography artifacts for quantitative image analysis. Computerized Medical Imaging and Graphics, 2018, 69, 134-139.	5.8	29
21	Referenceless magnetic resonance temperature imaging using Gaussian process modeling. Medical Physics, 2017, 44, 3545-3555.	3.0	3
22	Silent Sentence Completion Shows Superiority Localizing Wernicke's Area and Activation Patterns of Distinct Language Paradigms Correlate with Genomics: Prospective Study. Scientific Reports, 2017, 7, 12054.	3.3	9
23	Effect of pulse sequence parameter selection on signal strength in positive-contrast MRI markers for MRI-based prostate postimplant assessment. Medical Physics, 2016, 43, 4312-4322.	3.0	15
24	Precision Nanomedicine Using Dual PET and MR Temperature Imaging-Guided Photothermal Therapy. Journal of Nuclear Medicine, 2016, 57, 1778-1783.	5.0	18
25	Integrated nanotechnology platform for tumor-targeted multimodal imaging and therapeutic cargo release. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1877-1882.	7.1	55
26	Image-guided prostate brachytherapy should be MRI-based. Medical Physics, 2016, 43, 6213-6216.	3.0	0
27	An improved method for susceptibility and radius quantification of cylindrical objects from MRI. Magnetic Resonance Imaging, 2015, 33, 420-436.	1.8	15
28	In vitro and in vivo mapping of drug release after laser ablation thermal therapy with doxorubicin-loaded hollow gold nanoshells using fluorescence and photoacoustic imaging. Journal of Controlled Release, 2013, 172, 152-158.	9.9	78
29	Generalised polynomial chaos-based uncertainty quantification for planning MRgLITT procedures. International Journal of Hyperthermia, 2013, 29, 324-335.	2.5	17
30	TU-G-134-05: MRI Characteristics of Cobalt Dichloride N-Acetyl Cysteine (C4) as a Contrast Agent Marker for Prostate Brachytherapy. Medical Physics, 2013, 40, 461-461.	3.0	0
31	MR temperature imaging of nanoshell mediated laser ablation. International Journal of Hyperthermia, 2011, 27, 782-790.	2.5	28
32	Laser thermal therapy: Real-time MRI-guided and computer-controlled procedures for metastatic brain tumors. Lasers in Surgery and Medicine, 2011, 43, 943-950.	2.1	184
33	Quantitative comparison of thermal dose models in normal canine brain. Medical Physics, 2010, 37, 5313-5321.	3.0	46
34	Laser-Induced Thermal Therapy for Tumor Ablation. Critical Reviews in Biomedical Engineering, 2010, 38, 79-100.	0.9	189
35	Magnetic Resonance Guided, Focal Laser Induced Interstitial Thermal Therapy in a Canine Prostate Model. Journal of Urology, 2010, 184, 1514-1520.	0.4	73
36	Autoregressive moving average modeling for spectral parameter estimation from a multigradient echo chemical shift acquisition. Medical Physics, 2009, 36, 753-764.	3.0	12

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37	Dynamic chemical shift imaging for image-guided thermal therapy: Analysis of feasibility and potential. <i>Medical Physics</i> , 2008, 35, 793-803.	3.0	25
38	REAL-TIME MAGNETIC RESONANCE-GUIDED LASER THERMAL THERAPY FOR FOCAL METASTATIC BRAIN TUMORS. <i>Operative Neurosurgery</i> , 2008, 63, ONS21-ONS29.	0.8	89
39	Bifunctional Gold Nanoshells with a Superparamagnetic Iron Oxide~Silica Core Suitable for Both MR Imaging and Photothermal Therapy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6245-6251.	3.1	308
40	Magnetic Resonance Temperature Imaging for Focused Ultrasound Surgery. <i>Topics in Magnetic Resonance Imaging</i> , 2006, 17, 153-163.	1.2	14
41	Interleaved echo-planar imaging for fast multiplanar magnetic resonance temperature imaging of ultrasound thermal ablation therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 706-714.	3.4	57