

Keith Wachowicz

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,134
citations

535685

17
h-index

445137

33
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81
all docs

81
docs citations

81
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Metabolic Changes in 1H-MRSI Predictive for Survival in Patients With Newly Diagnosed High-grade Glioma. <i>Anticancer Research</i> , 2022, 42, 2665-2673.	0.5	0
2	How thin can you go? Performance of thin copper and aluminum RF coil conductors. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2327-2333.	1.9	6
3	A Short and Light, Sparse Dipolar Halbach Magnet for MRI. <i>IEEE Access</i> , 2021, 9, 95294-95303.	2.6	11
4	The effects of axial loading on the morphometric and T2 characteristics of lumbar discs in relation to disc degeneration. <i>Clinical Biomechanics</i> , 2021, 83, 105291.	0.5	2
5	Quantification of magnetic susceptibility fingerprint of a 3D linearity medical device. <i>Physica Medica</i> , 2021, 87, 39-48.	0.4	3
6	Time domain principal component analysis for rapid, real-time 2D MRI reconstruction from undersampled data. <i>Medical Physics</i> , 2021, 48, 6724-6739.	1.6	2
7	Use of machine learning to select texture features in investigating the effects of axial loading on T2-maps from magnetic resonance imaging of the lumbar discs. <i>European Spine Journal</i> , 2021, , 1.	1.0	0
8	Could compression and traction loading improve the ability of magnetic resonance imaging to identify findings related to low back pain?. <i>Musculoskeletal Science and Practice</i> , 2020, 50, 102250.	0.6	4
9	Texture analysis in the classification of T2-weighted magnetic resonance images in persons with and without low back pain. <i>Journal of Orthopaedic Research</i> , 2020, 39, 2187-2196.	1.2	10
10	Single patient convolutional neural networks for real-time MR reconstruction: coherent low-resolution versus incoherent undersampling. <i>Physics in Medicine and Biology</i> , 2020, 65, 08NT03.	1.6	3
11	Single patient convolutional neural networks for real-time MR reconstruction: a proof of concept application in lung tumor segmentation for adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 195002.	1.6	9
12	Nomenclature for real-time magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1483-1484.	1.9	15
13	Proton beam behavior in a parallel configured MRI-proton therapy hybrid: Effects of time-varying gradient magnetic fields. <i>Medical Physics</i> , 2019, 46, 822-838.	1.6	12
14	Evaluating performance of a user-trained MR lung tumor autocontouring algorithm in the context of intra- and interobserver variations. <i>Medical Physics</i> , 2018, 45, 307-313.	1.6	8
15	On the direct acquisition of beam's-eye-view images in MRI for integration with external beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2018, 63, 125002.	1.6	6
16	Sliding window prior data assisted compressed sensing for MRI tracking of lung tumors. <i>Medical Physics</i> , 2017, 44, 84-98.	1.6	20
17	Real-time dynamic MR image reconstruction using compressed sensing and principal component analysis (CS-PCA): Demonstration in lung tumor tracking. <i>Medical Physics</i> , 2017, 44, 3978-3989.	1.6	13
18	A non-axial superconducting magnet design for optimized patient access and minimal SAD for use in a Linac-MR hybrid: proof of concept. <i>Physics in Medicine and Biology</i> , 2017, 62, N147-N160.	1.6	4

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19	SNR efficiency of combined bipolar gradient echoes: Comparison of three-dimensional FLASH, MPRAGE, and multiparameter mapping with VFA-FLASH and MP2RAGE. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2186-2202.	1.9	11
20	Analytical corrections of banding artifacts in driven equilibrium single pulse observation of T2 (DESPOT2). <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1790-1804.	1.9	4
21	Improved lung tumor autocontouring algorithm for intrafractional tumor tracking using 0.5 T linac-MR. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 067004.	0.6	9
22	Correlation between k -space sampling pattern and MTF in compressed sensing MRSI. <i>Medical Physics</i> , 2016, 43, 5626-5634.	1.6	1
23	Minimal skin dose increase in longitudinal rotating biplanar linac-MR systems: examination of radiation energy and flattening filter design. <i>Physics in Medicine and Biology</i> , 2016, 61, 3527-3539.	1.6	24
24	CNR considerations for rapid real-time MRI tumor tracking in radiotherapy hybrid devices: Effects of B_0 field strength. <i>Medical Physics</i> , 2016, 43, 4903-4914.	1.6	12
25	213: Serial Magnetic Resonance Spectroscopy Imaging Predicts Clinical Outcomes in High-Grade Glioma During and After Post-Operative Radiotherapy. <i>Radiotherapy and Oncology</i> , 2016, 120, S78.	0.3	0
26	Role of serial multiparametric magnetic resonance imaging in prostate cancer active surveillance. <i>World Journal of Radiology</i> , 2016, 8, 410.	0.5	12
27	SU-G-JeP2-09: Minimal Skin Dose Increase in Longitudinal Rotating Biplanar Linac-MR Systems: Examination of Radiation Energy and Flattening Filter Design. <i>Medical Physics</i> , 2016, 43, 3661-3661.	1.6	0
28	SU-G-JeP1-15: Sliding Window Prior Data Assisted Compressed Sensing for MRI Lung Tumor Tracking. <i>Medical Physics</i> , 2016, 43, 3651-3651.	1.6	0
29	TU-H-BRA-09: Relationship Between B_0 and the Contrast-To-Noise Ratio (CNR) of Tumour to Background for MRI/Radiotherapy Hybrids. <i>Medical Physics</i> , 2016, 43, 3770-3770.	1.6	1
30	TU-H-BRA-04: A Novel Superconducting Magnet Design for Optimized Patient Access and Minimal SSD for Use in a Linac-MR Hybrid. <i>Medical Physics</i> , 2016, 43, 3769-3769.	1.6	0
31	SU-G-JeP2-15: Proton Beam Behavior in the Presence of Realistic Magnet Fields. <i>Medical Physics</i> , 2016, 43, 3662-3662.	1.6	0
32	Neural network based autocontouring algorithm for intrafractional lung tumor tracking using Linac-MR. <i>Medical Physics</i> , 2015, 42, 2296-2310.	1.6	37
33	Prior data assisted compressed sensing: A novel MR imaging strategy for real time tracking of lung tumors. <i>Medical Physics</i> , 2014, 41, 082301.	1.6	18
34	Multi-wavelength photoacoustic imaging of inducible tyrosinase reporter gene expression in xenograft tumors. <i>Scientific Reports</i> , 2014, 4, 5329.	1.6	62
35	MTF behavior of compressed sensing MR spectroscopic imaging. <i>Medical Physics</i> , 2013, 40, 052302.	1.6	5
36	First demonstration of intrafractional tumor tracked irradiation using 2D phantom MR images on a prototype linac-MR. <i>Medical Physics</i> , 2013, 40, 051718.	1.6	62

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37	Characterization of tissue magnetic susceptibility-induced distortions for MRIgRT. Medical Physics, 2012, 39, 7185-7193.	1.6	82
38	Sci-Thur PM: YIS - 06: Effect of the k-space sampling pattern on the MTF of compressed sensing MRSI. Medical Physics, 2012, 39, 4623-4623.	1.6	1
39	Geometric distortion and shimming considerations in a rotating MR-linac design due to the influence of low-level external magnetic fields. Medical Physics, 2012, 39, 2659-2668.	1.6	8
40	Effect of radiation induced current on the quality of MR images in an integrated linac-MR system. Medical Physics, 2012, 39, 6139-6147.	1.6	19
41	Evaluation of a lung tumor autocontouring algorithm for intrafractional tumor tracking using low-field MRI: A phantom study. Medical Physics, 2012, 39, 1481-1494.	1.6	34
42	TH-E-BRA-09: Radiation Induced Current Effects on MR Images from an Integrated Linac-MR System. Medical Physics, 2012, 39, 4013-4013.	1.6	0
43	SU-E-J-151: Evaluation of a Real Time Tumour Autocontouring Algorithm Using In-Vivo Lung MR Images with Various Contrast to Noise Ratios. Medical Physics, 2012, 39, 3687-3687.	1.6	1
44	480 poster QUANTIFICATION OF MR IMAGE SUSCEPTIBILITY DISTORTIONS FOR IGRT. Radiotherapy and Oncology, 2011, 99, S195.	0.3	0
45	Tyrosinase as a dual reporter gene for both photoacoustic and magnetic resonance imaging. Biomedical Optics Express, 2011, 2, 771.	1.5	81
46	Diffusion Weighted and Dynamic Contrast Enhanced MRI of Prostate in Response to RT. International Journal of Radiation Oncology Biology Physics, 2011, 81, S386.	0.4	0
47	SU-E-J-81: MR-Based Prostate Radiotherapy Treatment Planning: An Investigation of the Dosimetric Consequences of Distortion Correction. Medical Physics, 2011, 38, 3460-3460.	1.6	0
48	WE-G-214-04: MR Simulation Environment for MR-Guided Radiation Therapy. Medical Physics, 2011, 38, 3831-3831.	1.6	0
49	SU-E-J-83: Feasibility of Real Time Tumour Tracking in Low Field MRI - A Phantom Study. Medical Physics, 2011, 38, 3461-3461.	1.6	0
50	Implications of tissue magnetic susceptibility-related distortion on the rotating magnet in an MR-linac design. Medical Physics, 2010, 37, 1714-1721.	1.6	25
51	Investigation of a 3D system distortion correction method for MR images. Journal of Applied Clinical Medical Physics, 2010, 11, 200-216.	0.8	49
52	Monitoring T2 and ADC at 9.4 T following fractionated external beam radiation therapy in a mouse model. Physics in Medicine and Biology, 2010, 55, 1381-1393.	1.6	13
53	MO-204-09: Characterization of ADC and T2 Responses of Tumor Tissue to Radiation with Histological Interpretation. Medical Physics, 2010, 37, 3343-3343.	1.6	0
54	SU-CC-CA-11: Contrast to Noise Ratio Measurements for Real Time MR Lung Tumour Imaging Sequences at Lower Fields - A Phantom Study. Medical Physics, 2010, 37, 3147-3147.	1.6	0

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55	MRI of prostate brachytherapy seeds at high field: A study in phantom. Medical Physics, 2009, 36, 5228-5234.	1.6	14
56	Temporal and dose dependence of T2 and ADC at 9.4 T in a mouse model following single fraction radiation therapy. Medical Physics, 2009, 36, 2948-2954.	1.6	16
57	Assessing Cardiac Sparing in Breast Radiotherapy using MR and CT Breath-hold Imaging. International Journal of Radiation Oncology Biology Physics, 2009, 75, S214-S215.	0.4	0
58	78 COMBINED MR AND CT IMAGING FOR ASSESSING CARDIAC SPARING IN BREAST CANCER TREATMENTS. Radiotherapy and Oncology, 2009, 92, S25.	0.3	0
59	22 HYPOFRACTIONATED DYNAMIC INTENSITY MODULATED RADIOTHERAPY WITH CONCURRENT AND ADJUVANT TEMOZOLOMIDE FOR PATIENTS WITH GLIOBLASTOMA UTILIZING MAGNETIC RESONANCE SPECTROSCOPIC IMAGING TO PREDICT TREATMENT RESPONSE. Radiotherapy and Oncology, 2009, 92, S7-S8.	0.3	0
60	A two-step scheme for distortion rectification of magnetic resonance images. Medical Physics, 2009, 36, 3917-3926.	1.6	90
61	Developments in MRI-based radiation treatment planning. IFMBE Proceedings, 2009, , 821-824.	0.2	1
62	WE-C-BRB-04: MR Image Susceptibility Distortions: Quantification of Impact On the Radiation Treatment Planning of Cancer Sites. Medical Physics, 2009, 36, 2758-2758.	1.6	0
63	Poster - Wed Eye-50: Correcting for Fat-Shift Artifacts in Magnetic Resonance Images. Medical Physics, 2009, 36, 4313-4313.	1.6	0
64	Sci-Thurs AM: YIS-08: Temporal and Dose Dependence of T2 and ADC at 9.4T in a Mouse Model Following External Beam Radiation Therapy. Medical Physics, 2009, 36, 4316-4316.	1.6	0
65	A phantom to assess the accuracy of tumor delineation using MRSI. Radiology and Oncology, 2008, 42, .	0.6	5
66	Sci-Fri PM: Planning-02: MRI-based radiation treatment planning for an MRI-linac system. Medical Physics, 2008, 35, 3412-3412.	1.6	1
67	Sci-Fri AM: YIS-01: Comprehensive MR distortion correction: Phantom validation and in-vivo application. Medical Physics, 2008, 35, 3410-3410.	1.6	0
68	Sci-Sat AM(1): Imaging-06: Proximity-based modification to an automatic method for tumor delineation using MRSI. Medical Physics, 2008, 35, 3415-3415.	1.6	0
69	Characterization, prediction, and correction of geometric distortion in 3T MR images. Medical Physics, 2007, 34, 388-399.	1.6	165
70	Acute Toxicity Results Using Dynamic Intensity Modulated Radiotherapy (dIMRT) in High-Risk Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2007, 69, S365.	0.4	1
71	TU-C&M100F&O1: Development of a Linac&MRI System for Real-time ART. Medical Physics, 2007, 34, 2547-2547.		48
72	109 Magnetization transfer analysis of the parotid gland with MRI: A pilot study. Radiotherapy and Oncology, 2006, 80, S32-S33.	0.3	0

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73	153 High field strength MR imaging of permanent-seed prostate brachytherapy (PSPB) implants. Radiotherapy and Oncology, 2006, 80, S45.	0.3	0
74	Characterization of the susceptibility artifact around a prostate brachytherapy seed in MRI. Medical Physics, 2006, 33, 4459-4467.	1.6	44
75	A continuous-flow perfusion system for the maintenance and NMR study of small tissue samples in vitro. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 35-40.	1.1	2
76	47 Tomotherapy Treatment Planning Improves Therapeutic Ratio Using 3T MRI Imaging in Cervical Cancer. Radiotherapy and Oncology, 2005, 76, S14-S15.	0.3	0
77	Sci-AM1 Sat - 08: Towards MR-based treatment planning: Characterisation of geometric distortion in 3T MR images. Medical Physics, 2005, 32, 2424-2424.	1.6	1
78	Sci-YIS Fri - 06: High spatial resolution magnetic resonance spectroscopic imaging of the brain at 3T for external beam radiation therapy planning. Medical Physics, 2005, 32, 2419-2419.	1.6	0
79	Assignment of the T2 components of amphibian peripheral nerve to their microanatomical compartments. Magnetic Resonance in Medicine, 2002, 47, 239-245.	1.9	39
80	Identifying micro-anatomical compartments of mammalian optic nerve based on NMR T/sub 2/-relaxation analysis. , 0, , .		0
81	Evaluation of active and passive shimming in magnetic resonance imaging. Research and Reports in Nuclear Medicine, 0, , 1.	1.0	8