B Gino Fallone

List of Publications by Citations

59 papers	1,396 citations	16 h-index	36 g-index
62 ext. papers	1,586 ext. citations	3.6 avg, IF	4.91 L-index

#	Paper	IF	Citations
59	First MR images obtained during megavoltage photon irradiation from a prototype integrated linac-MR system. *Medical Physics*, **2009**, 36, 2084-8	4.4	258
58	The rotating biplanar linac-magnetic resonance imaging system. *Seminars in Radiation Oncology*, **2014**, 24, 200-2	5.5	182
57	Characterization, prediction, and correction of geometric distortion in 3 T MR images. *Medical Physics*, **2007**, 34, 388-99	4.4	142
56	Patient dosimetry for hybrid MRI-radiotherapy systems. *Medical Physics*, **2008**, 35, 1019-27	4.4	104
55	A two-step scheme for distortion rectification of magnetic resonance images. *Medical Physics*, **2009**, 36, 3917-26	4.4	73
54	Lung dosimetry in a linac-MRI radiotherapy unit with a longitudinal magnetic field. *Medical Physics*, **2010**, 37, 4722-32	4.4	61
53	Skin dose in longitudinal and transverse linac-MRIs using Monte Carlo and realistic 3D MRI field models. *Medical Physics*, **2012**, 39, 6509-21	4.4	47
52	Clinical evaluation of normalized metal artifact reduction in kVCT using MVCT prior images (MVCT-NMAR) for radiation therapy treatment planning. *International Journal of Radiation Oncology Biology Physics*, **2014**, 89, 682-9	4	42
51	Investigation of a 3D system distortion correction method for MR images. *Journal of Applied Clinical Medical Physics*, **2010**, 11, 2961	2.3	42
50	Design and Optimization of a Novel Bored Biplanar Permanent-Magnet Assembly for Hybrid Magnetic Resonance Imaging Systems. *IEEE Transactions on Magnetics*, **2010**, 46, 4052-4058	2	40
49	A TCP-NTCP estimation module using DVHs and known radiobiological models and parameter sets. *Journal of Applied Clinical Medical Physics*, **2004**, 5, 50-63	2.3	39
48	Design and Optimization of Superconducting MRI Magnet Systems With Magnetic Materials. *IEEE Transactions on Applied Superconductivity*, **2012**, 22, 4400107-4400107	1.8	26
47	Assessment of a commercially available automatic deformable registration system. *Journal of Applied Clinical Medical Physics*, **2010**, 11, 3175	2.3	23
46	Fundamental form of a population TCP model in the limit of large heterogeneity. *Medical Physics*, **2006**, 33, 1634-42	4.4	17
45	Three-Dimensional Nonaxisymmetric Pole Piece Shape Optimization for Biplanar Permanent-Magnet MRI Systems. *IEEE Transactions on Magnetics*, **2011**, 47, 231-238	2	16
44	Effect of J-coupling on lipid composition determination with localized proton magnetic resonance spectroscopy at 9.4 T. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1388-96	5.6	16
43	Exploiting the chemical shift displacement effect in the detection of glutamate and glutamine (Glx) with PRESS. *Journal of Magnetic Resonance*, **2008**, 191, 120-7	3	16

42	Comparison of optimized long echo time STEAM and PRESS proton MR spectroscopy of lipid olefinic protons at 3 Tesla. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 481-6	5.6	15
41	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, 2948-54	4.4	15
40	T(2) determination of the J-coupled methyl protons of lipids: In vivo ilustration with tibial bone marrow at 3 T. *Journal of Magnetic Resonance Imaging*, **2010**, 31, 1514-21	5.6	15
39	Experimental verification of SNR and parallel imaging improvements using composite arrays. *NMR in Biomedicine*, **2015**, 28, 141-53	4.4	14
38	Long echo time proton magnetic resonance spectroscopy for estimating relative measures of lipid unsaturation at 3 T. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 944-9	5.6	14
37	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, 1381-93	3.8	12
36	Nomenclature for real-time magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2019**, 81, 1483-1484	4.4	12
35	Role of serial multiparametric magnetic resonance imaging in prostate cancer active surveillance. *World Journal of Radiology*, **2016**, 8, 410-8	2.9	11
34	Spatial and temporal distribution of H2AX fluorescence in human cell cultures following synchrotron-generated X-ray microbeams: lack of correlation between persistent H2AX foci and apoptosis. *Journal of Synchrotron Radiation*, **2014**, 21, 801-10	2.4	10
33	Stray Capacitance Between Magnetic Resonance Imaging Coil Elements: Models and Application to Array Decoupling. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 4667-4677	4.1	10
32	Real-time dynamic MR image reconstruction using compressed sensing and principal component analysis (CS-PCA): Demonstration in lung tumor tracking. *Medical Physics*, **2017**, 44, 3978-3989	4.4	9
31	Technical Note: Ion chamber angular dependence in a magnetic field. *Medical Physics*, **2017**, 44, 4322-4328	4.4	9
30	Evaluation of dose-volume metrics for microbeam radiation therapy dose distributions in head phantoms of various sizes using Monte Carlo simulations. *Physics in Medicine and Biology*, **2012**, 57, 3223-48	3.8	9
29	ADC response to radiation therapy correlates with induced changes in radiosensitivity. *Medical Physics*, **2010**, 37, 3855-61	4.4	9
28	Analytic investigation into effect of population heterogeneity on parameter ratio estimates. *International Journal of Radiation Oncology Biology Physics*, **2007**, 69, 1323-30	4	8
27	LyP-1 Conjugated Nanoparticles for Magnetic Resonance Imaging of Triple Negative Breast Cancer. *Molecular Imaging and Biology*, **2018**, 20, 428-435	3.8	8
26	Experimental verification of EGSnrc Monte Carlo calculated depth doses within a realistic parallel magnetic field in a polystyrene phantom. *Medical Physics*, **2017**, 44, 4804-4815	4.4	7
25	Effect of J coupling on 1.3-ppm lipid methylene signal acquired with localised proton MRS at 3 T. *NMR in Biomedicine*, **2015**, 28, 1324-31	4.4	7

24	Detection of glutamate and glutamine (Glx) by turbo spectroscopic imaging. *Journal of Magnetic Resonance*, **2009**, 196, 170-7	3	7
23	Single patient convolutional neural networks for real-time MR reconstruction: a proof of concept application in lung tumor segmentation for adaptive radiotherapy. *Physics in Medicine and Biology*, **2019**, 64, 195002	3.8	5
22	Probability dynamics of a repopulating tumor in case of fractionated external radiotherapy. *Physica Medica*, **2009**, 25, 181-91	2.7	5
21	Incorporating homonuclear polarization transfer into PRESS for proton spectral editing: illustration with lactate and glutathione. *Journal of Magnetic Resonance*, **2007**, 188, 111-21	3	5
20	Evaluating performance of a user-trained MR lung tumor autocontouring algorithm in the context of intra- and interobserver variations. *Medical Physics*, **2018**, 45, 307-313	4.4	5
19	Corrigendum to "Stability analysis of a deterministic dose calculation for MRI-guided radiotherapy". *Physics in Medicine and Biology*, **2018**,	3.8	4
18	Population TCP estimators in case of heterogeneous irradiation: a new discussion of an old problem. *Acta Oncologica*, **2010**, 49, 1293-303	3.2	4
17	A non-axial superconducting magnet design for optimized patient access and minimal SAD for use in a Linac-MR hybrid: proof of concept. *Physics in Medicine and Biology*, **2017**, 62, N147-N160	3.8	3
16	Prostate positioning errors associated with two automatic registration based image guidance strategies. *Journal of Applied Clinical Medical Physics*, **2009**, 10, 165-176	2.3	3
15	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. *Medical Physics*, **2021**, 48, 4523-4531	4.4	3
14	Design and simulation of a short, variable-energy 4 to 10 MV S-band linear accelerator waveguide. *Medical Physics*, **2017**, 44, 2124-2131	4.4	2
13	Impact of a parallel magnetic field on radiation dose beneath thin copper and aluminum foils. *Biomedical Physics and Engineering Express*, **2020**, 6, 037002	1.5	2
12	Efficient multichannel coil data compression: A prospective study for distributed detection in wireless high-density arrays **2011**, 39B, 64-77		2
11	How thin can you go? Performance of thin copper and aluminum RF coil conductors. *Magnetic Resonance in Medicine*, **2021**, 85, 2327-2333	4.4	2
10	Tracking tumor boundary using point correspondence for adaptive radio therapy. *Computer Methods and Programs in Biomedicine*, **2018**, 165, 187-195	6.9	2
9	A system for automated noise parameter measurements on MR preamplifiers and application to high B(0) fields. *NMR in Biomedicine*, **2014**, 27, 926-38	4.4	1
8	Technical Note: Experimental verification of EGSnrc calculated depth dose within a parallel magnetic field in a lung phantom. *Medical Physics*, **2018**, 45, 5653-5658	4.4	1
7	Technical Note: EPIDs response to 6 MV photons in a strong, parallel magnetic field. *Medical Physics*, **2019**, 46, 340-344	4.4	1

6	Clinical Outcomes of the CHIRP Trial: A Phase II Prospective Randomized Trial of Conventionally Fractionated Versus Moderately Hypofractionated Prostate and Pelvic Nodal Radiation Therapy in Patients With High-Risk Prostate Cancer. *Practical Radiation Oncology*, **2021**, 11, 384-393	2.8	1
5	Technical Note: Sensitive volume effects on ion chamber responses in longitudinal magnetic fields. *Medical Physics*, **2019**, 46, 3306-3310	4.4	
4	PRESS timings for resolving C -glutamate H signal at 9.4 T: Demonstration in rat with uniformly labelled C-glucose. *NMR in Biomedicine*, **2019**, 32, e4180	4.4	
3	Comment on "Monte Carlo evaluation of the convolution/superposition algorithm of Hi-Art tomotherapy in heterogeneous phantoms and clinical cases" [Med. Phys. 36, 1566-1575 (2009)]. *Medical Physics*, **2009**, 36, 3856; author reply 3857	4.4	
2	Optimized PRESS sequence timings for measuring glycine at 9.4 T: demonstration in vivo in rat brain. *Biomedical Physics and Engineering Express*, **2016**, 2, 027003	1.5	
1	Time domain principal component analysis for rapid, real-time 2D MRI reconstruction from undersampled data. *Medical Physics*, **2021**, 48, 6724-6739	4.4	