

Martin F Fast

List of Publications by Year in descending order

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44
papers

1,222
citations

361413

20
h-index

377865

34
g-index

44
all docs

44
docs citations

44
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI-guided lung SBRT: Present and future developments. <i>Physica Medica</i> , 2017, 44, 139-149.	0.7	94
2	MRI-guidance for motion management in external beam radiotherapy: current status and future challenges. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR03.	3.0	94
3	Lung stereotactic body radiotherapy with an MR-linac – Quantifying the impact of the magnetic field and real-time tumor tracking. <i>Radiotherapy and Oncology</i> , 2016, 119, 461-466.	0.6	88
4	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. <i>Radiotherapy and Oncology</i> , 2016, 119, 159-165.	0.6	82
5	Dynamic tumor tracking using the Elekta Agility MLC. <i>Medical Physics</i> , 2014, 41, 111719.	3.0	69
6	Tumor Trailing for Liver SBRT on the MR-Linac. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 468-478.	0.8	55
7	Treating locally advanced lung cancer with a 1.5 T MR-Linac – Effects of the magnetic field and irradiation geometry on conventionally fractionated and isotoxic dose-escalated radiotherapy. <i>Radiotherapy and Oncology</i> , 2017, 125, 280-285.	0.6	52
8	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , 2021, 48, e44-e64.	3.0	49
9	Assessment of MLC tracking performance during hypofractionated prostate radiotherapy using real-time dose reconstruction. <i>Physics in Medicine and Biology</i> , 2016, 61, 1546-1562.	3.0	39
10	A Self-Sorting Coronal 4D-MRI Method for Daily Image Guidance of Liver Lesions on an MR-LINAC. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 875-884.	0.8	37
11	Real-time 4D dose reconstruction for tracked dynamic MLC deliveries for lung SBRT. <i>Medical Physics</i> , 2016, 43, 6072-6081.	3.0	34
12	Required transition from research to clinical application: Report on the 4D treatment planning workshops 2014 and 2015. <i>Physica Medica</i> , 2016, 32, 874-882.	0.7	34
13	Effect of MLC tracking latency on conformal volumetric modulated arc therapy (VMAT) plans in 4D stereotactic lung treatment. <i>Radiotherapy and Oncology</i> , 2015, 117, 491-495.	0.6	33
14	Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. <i>Physica Medica</i> , 2014, 30, 809-815.	0.7	32
15	Tumour auto-contouring on 2d cine MRI for locally advanced lung cancer: A comparative study. <i>Radiotherapy and Oncology</i> , 2017, 125, 485-491.	0.6	30
16	Using dual-energy x-ray imaging to enhance automated lung tumor tracking during real-time adaptive radiotherapy. <i>Medical Physics</i> , 2015, 42, 6987-6998.	3.0	28
17	First evaluation of the feasibility of MLC tracking using ultrasound motion estimation. <i>Medical Physics</i> , 2016, 43, 4628-4633.	3.0	27
18	MRI-guided mid-position liver radiotherapy: Validation of image processing and registration steps. <i>Radiotherapy and Oncology</i> , 2019, 138, 132-140.	0.6	26

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19	Retrospective self-sorted 4D-MRI for the liver. <i>Radiotherapy and Oncology</i> , 2018, 127, 474-480.	0.6	25
20	Multileaf collimator tracking integrated with a novel x-ray imaging system and external surrogate monitoring. <i>Physics in Medicine and Biology</i> , 2012, 57, 2425-2439.	3.0	24
21	First experimental exploration of real-time cardiorespiratory motion management for future stereotactic arrhythmia radioablation treatments on the MR-linac. <i>Physics in Medicine and Biology</i> , 2022, 67, 065003.	3.0	22
22	Position detection accuracy of a novel linac-mounted intrafractional x-ray imaging system. <i>Medical Physics</i> , 2011, 39, 109-118.	3.0	20
23	Performance characteristics of a novel megavoltage cone-beam-computed tomography device. <i>Physics in Medicine and Biology</i> , 2012, 57, N15-N24.	3.0	20
24	Dosimetric evaluation of MRI-guided multi-leaf collimator tracking and trailing for lung stereotactic body radiation therapy. <i>Medical Physics</i> , 2021, 48, 1520-1532.	3.0	20
25	Actively triggered 4d cone-beam CT acquisition. <i>Medical Physics</i> , 2013, 40, 091909.	3.0	19
26	First experimental demonstration of VMAT combined with MLC tracking for single and multi fraction lung SBRT on an MR-linac. <i>Radiotherapy and Oncology</i> , 2022, 174, 149-157.	0.6	18
27	Correcting geometric image distortions in slice-based 4D-MRI on the MR-linac. <i>Medical Physics</i> , 2019, 46, 3044-3054.	3.0	17
28	Online dose reconstruction for tracked volumetric arc therapy: Real-time implementation and offline quality assurance for prostate SBRT. <i>Medical Physics</i> , 2017, 44, 5997-6007.	3.0	16
29	A hybrid 2D/4D-MRI methodology using simultaneous multislice imaging for radiotherapy guidance. <i>Medical Physics</i> , 2022, 49, 6068-6081.	3.0	13
30	Validation of a 4D-MRI guided liver stereotactic body radiation therapy strategy for implementation on the MR-linac. <i>Physics in Medicine and Biology</i> , 2021, 66, 105010.	3.0	12
31	The impact of 2D cine MR imaging parameters on automated tumor and organ localization for MR-guided real-time adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2018, 63, 235005.	3.0	10
32	Real-time energy/mass transfer mapping for online 4D dose reconstruction. <i>Scientific Reports</i> , 2018, 8, 3662.	3.3	10
33	Investigating the impact of patient arm position in an MR-linac on liver SBRT treatment plans. <i>Medical Physics</i> , 2019, 46, 5144-5151.	3.0	10
34	Simultaneous multi-slice accelerated 4D-MRI for radiotherapy guidance. <i>Physics in Medicine and Biology</i> , 2021, 66, 095014.	3.0	10
35	Evaluation of three presets for four-dimensional cone beam CT in lung radiotherapy verification by visual grading analysis. <i>British Journal of Radiology</i> , 2016, 89, 20150933.	2.2	9
36	Real-time auto-adaptive margin generation for MLC-tracked radiotherapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 186-201.	3.0	9

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37	A kernel-based dose calculation algorithm for kV photon beams with explicit handling of energy and material dependencies. British Journal of Radiology, 2017, 90, 20160426.	2.2	9
38	Automated marker tracking using noisy X-ray images degraded by the treatment beam. Zeitschrift Fur Medizinische Physik, 2015, 25, 123-134.	1.5	8
39	Finding an improved amorphous-silicon x-ray flat-panel detector configuration for the in-line geometry. Physics in Medicine and Biology, 2013, 58, 2305-2324.	3.0	5
40	Feasibility of cardiac-synchronized quantitative T1 and T2 mapping on a hybrid 1.5 Tesla magnetic resonance imaging and linear accelerator system. Physics and Imaging in Radiation Oncology, 2022, 21, 153-159.	2.9	5
41	Towards mid-position based Stereotactic Body Radiation Therapy using online magnetic resonance imaging guidance for central lung tumours. Physics and Imaging in Radiation Oncology, 2022, 23, 24-31.	2.9	5
42	A multivariable study of deformable image registration evaluation metrics in 4DCT of thoracic cancer patients. Physics in Medicine and Biology, 2021, 66, 035019.	3.0	3
43	Bestrahlungsverfahren. , 2018, , 525-577.		0
44	High-Field MRI In-Room Guidance for Radiotherapy Adaptation. Medical Radiology, 2020, , 107-128.	0.1	0