

Ryan Flynn

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

920
citations

471509

17
h-index

477307

29
g-index

41
all docs

41
docs citations

41
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Characterization and Validation of the Dynamic Collimation System Prototype for Proton Radiotherapy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, 021013.	0.7	2
2	Reducing MRI-guided radiotherapy planning and delivery times via efficient leaf sequencing and segment shape optimization algorithms. <i>Physics in Medicine and Biology</i> , 2022, 67, 055005.	3.0	4
3	Investigating aperture-based approximations to model a focused Dynamic Collimation System for pencil beam scanning proton therapy. <i>Biomedical Physics and Engineering Express</i> , 2022, , .	1.2	2
4	Magnetic resonance imaging (MRI) of pharmacological ascorbate-induced iron redox state as a biomarker in subjects undergoing radio-chemotherapy. <i>Redox Biology</i> , 2021, 38, 101804.	9.0	14
5	AAPM Task Group 198 Report: An implementation guide for TG 142 quality assurance of medical accelerators. <i>Medical Physics</i> , 2021, 48, e830-e885.	3.0	54
6	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020, 30, 94-106.	2.2	27
7	Absorbed dose distributions from beta-decaying radionuclides: Experimental validation of Monte Carlo tools for radiopharmaceutical dosimetry. <i>Medical Physics</i> , 2020, 47, 5779-5790.	3.0	5
8	¹⁶⁹ Yb-based rotating shield brachytherapy for prostate cancer. <i>Medical Physics</i> , 2020, 47, 6430-6439.	3.0	6
9	Stereotactic radiotherapy of appropriately selected meningiomas and metastatic brain tumor beds with gamma knife icon versus volumetric modulated arc therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 246-252.	1.9	0
10	Design of a focused collimator for proton therapy spot scanning using Monte Carlo methods. <i>Medical Physics</i> , 2020, 47, 2725-2734.	3.0	17
11	Needle-free cervical cancer treatment using helical multishield intracavitary rotating shield brachytherapy with the ¹⁶⁹ Yb isotope. <i>Medical Physics</i> , 2020, 47, 2061-2071.	3.0	9
12	Dose point kernels for 2,174 radionuclides. <i>Medical Physics</i> , 2019, 46, 5284-5293.	3.0	25
13	Efficient ¹⁶⁹ Yb high-dose-rate brachytherapy source production using reactivation. <i>Medical Physics</i> , 2019, 46, 2935-2943.	3.0	15
14	An integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responses. <i>Radiotherapy and Oncology</i> , 2019, 139, 23-27.	0.6	189
15	Technical Note: Optimization of spot and trimmer position during dynamically collimated proton therapy. <i>Medical Physics</i> , 2019, 46, 1922-1930.	3.0	11
16	The commissioning and validation of Monaco treatment planning system on an Elekta Versa ^{HD} linear accelerator. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 184-193.	1.9	29
17	Image guidance doses delivered during radiotherapy: Quantification, management, and reduction: Report of the ^{AAPM} Therapy Physics Committee Task Group 180. <i>Medical Physics</i> , 2018, 45, e84-e99.	3.0	104
18	Fast dose optimization for rotating shield brachytherapy. <i>Medical Physics</i> , 2017, 44, 5384-5392.	3.0	7

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19	SBRT to adrenal metastases provides high local control with minimal toxicity. <i>Advances in Radiation Oncology</i> , 2017, 2, 581-587.	1.2	35
20	Design of a compact collimator and 3D imaging system for a scanning beam low-energy intraoperative radiation therapy system for pancreatic cancer. , 2017, 2017, 4325-4328.		0
21	Toward improved target conformity for two spot scanning proton therapy delivery systems using dynamic collimation. <i>Medical Physics</i> , 2016, 43, 1421-1427.	3.0	25
22	Technical Note: A treatment plan comparison between dynamic collimation and a fixed aperture during spot scanning proton therapy for brain treatment. <i>Medical Physics</i> , 2016, 43, 4693-4699.	3.0	31
23	Theoretical Benefits of Dynamic Collimation in Pencil Beam Scanning Proton Therapy for Brain Tumors: Dosimetric and Radiobiological Metrics. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 171-180.	0.8	42
24	Improving Head and Neck Cancer Treatments Using Dynamic Collimation in Spot Scanning Proton Therapy. <i>International Journal of Particle Therapy</i> , 2016, 2, 544-554.	1.8	20
25	A method for modeling laterally asymmetric proton beamlets resulting from collimation. <i>Medical Physics</i> , 2015, 42, 1321-1334.	3.0	23
26	Multihelix rotating shield brachytherapy for cervical cancer. <i>Medical Physics</i> , 2015, 42, 6579-6588.	3.0	18
27	Paddle-based rotating shield brachytherapy. <i>Medical Physics</i> , 2015, 42, 5992-6003.	3.0	16
28	Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. <i>Frontiers in Oncology</i> , 2015, 5, 119.	2.8	1
29	In Regard to Zhang et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 211.	0.8	1
30	Asymmetric dose-volume optimization with smoothness control for rotating shield brachytherapy. <i>Medical Physics</i> , 2014, 41, 111709.	3.0	10
31	Impact of spot size on plan quality of spot scanning proton radiosurgery for peripheral brain lesions. <i>Medical Physics</i> , 2014, 41, 121705.	3.0	37
32	Gadolinium-153 as a brachytherapy isotope. <i>Physics in Medicine and Biology</i> , 2013, 58, 957-964.	3.0	24
33	Collision indicator charts for gantry-couch position combinations for Siemens ONCOR and Elekta Infinity linacs. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 278-283.	1.9	7
34	High resolution (3 Tesla) MRI-guided conformal brachytherapy for cervical cancer: consequences of different high-risk CTV sizes. <i>Journal of Contemporary Brachytherapy</i> , 2013, 2, 101-109.	0.9	13
35	Dynamic rotating shield brachytherapy. <i>Medical Physics</i> , 2013, 40, 121703.	3.0	20
36	High-dose MVCT image guidance for stereotactic body radiation therapy. <i>Medical Physics</i> , 2012, 39, 4812-4819.	3.0	14

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37	Target volume changes through high-dose-rate brachytherapy for cervical cancer when evaluated on high resolution (3.0 Tesla) magnetic resonance imaging. <i>Practical Radiation Oncology</i> , 2012, 2, e101-e106.	2.1	10
38	Image quality improvement in megavoltage cone beam CT using an imaging beam line and a sintered pixelated array system. <i>Medical Physics</i> , 2011, 38, 5969-5979.	3.0	17
39	Loss of radiobiological effect of imaging dose in image guided radiotherapy due to prolonged imaging-to-treatment times. <i>Medical Physics</i> , 2010, 37, 2761-2769.	3.0	6
40	Dosimetric characterization and application of an imaging beam line with a carbon electron target for megavoltage cone beam computed tomography. <i>Medical Physics</i> , 2009, 36, 2181-2192.	3.0	22
41	Assessment of three dead detector correction methods for cone-beam computed tomography. <i>Medical Physics</i> , 2009, 36, 4569-4576.	3.0	8