Ryan Flynn

List of Publications by Year
in descending order

41 papers	920 citations	471061 17 h-index	476904 29 g-index
41 all docs	41 docs citations	41 times ranked	838 citing authors

#	Article	IF	Citations
1	An integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responses. Radiotherapy and Oncology, 2019, 139, 23-27.	0.3	189
2	Image guidance doses delivered during radiotherapy: Quantification, management, and reduction: Report of the <scp>AAPM</scp> Therapy Physics Committee Task Group 180. Medical Physics, 2018, 45, e84-e99.	1.6	104
3	AAPM Task Group 198 Report: An implementation guide for TG 142 quality assurance of medical accelerators. Medical Physics, 2021, 48, e830-e885.	1.6	54
4	Theoretical Benefits of Dynamic Collimation inÂPencil Beam Scanning Proton Therapy forÂBrain Tumors: Dosimetric and Radiobiological Metrics. International Journal of Radiation Oncology Biology Physics, 2016, 95, 171-180.	0.4	42
5	Impact of spot size on plan quality of spot scanning proton radiosurgery for peripheral brain lesions. Medical Physics, 2014, 41, 121705.	1.6	37
6	SBRT to adrenal metastases provides high local control with minimal toxicity. Advances in Radiation Oncology, 2017, 2, 581-587.	0.6	35
7	Technical Note: A treatment plan comparison between dynamic collimation and a fixed aperture during spot scanning proton therapy for brain treatment. Medical Physics, 2016, 43, 4693-4699.	1.6	31
8	The commissioning and validation of Monaco treatment planning system on an Elekta Versa<scp>HD</scp> linear accelerator. Journal of Applied Clinical Medical Physics, 2019, 20, 184-193.	0.8	29
9	Brachytherapy Future Directions. Seminars in Radiation Oncology, 2020, 30, 94-106.	1.0	27
10	Toward improved target conformity for two spot scanning proton therapy delivery systems using dynamic collimation. Medical Physics, 2016, 43, 1421-1427.	1.6	25
11	Dose point kernels for 2,174 radionuclides. Medical Physics, 2019, 46, 5284-5293.	1.6	25
12	Gadolinium-153 as a brachytherapy isotope. Physics in Medicine and Biology, 2013, 58, 957-964.	1.6	24
13	A method for modeling laterally asymmetric proton beamlets resulting from collimation. Medical Physics, 2015, 42, 1321-1334.	1.6	23
14	Dosimetric characterization and application of an imaging beam line with a carbon electron target for megavoltage cone beam computed tomography. Medical Physics, 2009, 36, 2181-2192.	1.6	22
15	Dynamic rotatingâ€shield brachytherapy. Medical Physics, 2013, 40, 121703.	1.6	20
16	Improving Head and Neck Cancer Treatments Using Dynamic Collimation in Spot Scanning Proton Therapy. International Journal of Particle Therapy, 2016, 2, 544-554.	0.9	20
17	Multihelix rotating shield brachytherapy for cervical cancer. Medical Physics, 2015, 42, 6579-6588.	1.6	18
18	Image quality improvement in megavoltage cone beam CT using an imaging beam line and a sintered pixelated array system. Medical Physics, 2011, 38, 5969-5979.	1.6	17

#	Article	IF	Citations
19	Design of a focused collimator for proton therapy spot scanning using Monte Carlo methods. Medical Physics, 2020, 47, 2725-2734.	1.6	17
20	Paddleâ€based rotatingâ€shield brachytherapy. Medical Physics, 2015, 42, 5992-6003.	1.6	16
21	Efficient ¹⁶⁹Yb highâ€doseâ€rate brachytherapy source production using reactivation. Medical Physics, 2019, 46, 2935-2943.	1.6	15
22	Highâ€dose MVCT image guidance for stereotactic body radiation therapy. Medical Physics, 2012, 39, 4812-4819.	1.6	14
23	Magnetic resonance imaging (MRI) of pharmacological ascorbate-induced iron redox state as a biomarker in subjects undergoing radio-chemotherapy. Redox Biology, 2021, 38, 101804.	3.9	14
24	High resolution (3 Tesla) MRI-guided conformal brachytherapy for cervical cancer: consequences of different high-risk CTV sizes. Journal of Contemporary Brachytherapy, 2013, 2, 101-109.	0.4	13
25	Technical Note: Optimization of spot and trimmer position during dynamically collimated proton therapy. Medical Physics, 2019, 46, 1922-1930.	1.6	11
26	Target volume changes through high-dose-rate brachytherapy for cervical cancer when evaluated on high resolution (3.0 Tesla) magnetic resonance imaging. Practical Radiation Oncology, 2012, 2, e101-e106.	1.1	10
27	Asymmetric doseâ€“volume optimization with smoothness control for rotatingâ€shield brachytherapy. Medical Physics, 2014, 41, 111709.	1.6	10
28	Needleâ€free cervical cancer treatment using helical multishield intracavitary rotating shield brachytherapy with the ¹⁶⁹Yb Isotope. Medical Physics, 2020, 47, 2061-2071.	1.6	9
29	Assessment of three dead detector correction methods for cone-beam computed tomography. Medical Physics, 2009, 36, 4569-4576.	1.6	8
30	Collision indicator charts for gantry-couch position combinations for Siemens ONCOR and Elekta Infinity linacs. Journal of Applied Clinical Medical Physics, 2013, 14, 278-283.	0.8	7
31	Fast dose optimization for rotating shield brachytherapy. Medical Physics, 2017, 44, 5384-5392.	1.6	7
32	Loss of radiobiological effect of imaging dose in image guided radiotherapy due to prolonged imaging-to-treatment times. Medical Physics, 2010, 37, 2761-2769.	1.6	6
33	¹⁶⁹Ybâ€based rotating shield brachytherapy for prostate cancer. Medical Physics, 2020, 47, 6430-6439.	1.6	6
34	Absorbed dose distributions from betaâ€decaying radionuclides: Experimental validation of Monte Carlo tools for radiopharmaceutical dosimetry. Medical Physics, 2020, 47, 5779-5790.	1.6	5
35	Reducing MRI-guided radiotherapy planning and delivery times via efficient leaf sequencing and segment shape optimization algorithms. Physics in Medicine and Biology, 2022, 67, 055005.	1.6	4
36	Mechanical Characterization and Validation of the Dynamic Collimation System Prototype for Proton Radiotherapy. Journal of Medical Devices, Transactions of the ASME, 2022, 16, 021013.	0.4	2

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37	Investigating aperture-based approximations to model a focused Dynamic Collimation System for pencil beam scanning proton therapy. Biomedical Physics and Engineering Express, 2022, , .	0.6	2
38	Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. Frontiers in Oncology, 2015, 5, 119.	1.3	1
39	In Regard to Zhang etÂal. International Journal of Radiation Oncology Biology Physics, 2015, 93, 211.	0.4	1
40	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
41	Stereotactic radiotherapy of appropriately selected meningiomas and metastatic brain tumor beds with gamma knife icon versus volumetric modulated arc therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 246-252.	0.8	0