

Ryan Flynn

List of Publications by Year in descending order

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papers

920
citations

471509

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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. <i>Radiotherapy and Oncology</i> , 2019, 139, 23-27.	0.6	189
2	Image guidance doses delivered during radiotherapy: Quantification, management, and reduction: Report of the <sc>AAPM</sc> Therapy Physics Committee Task Group 180. <i>Medical Physics</i> , 2018, 45, e84-e99.	3.0	104
3	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
4	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
5	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
6	SBRT to adrenal metastases provides high local control with minimal toxicity. <i>Advances in Radiation Oncology</i> , 2017, 2, 581-587.	1.2	35
7	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
8	The commissioning and validation of Monaco treatment planning system on an Elekta Versa<sc>HD</sc> linear accelerator. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 184-193.	1.9	29
9	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020, 30, 94-106.	2.2	27
10	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
11	Dose point kernels for 2,174 radionuclides. <i>Medical Physics</i> , 2019, 46, 5284-5293.	3.0	25
12	Gadolinium-153 as a brachytherapy isotope. <i>Physics in Medicine and Biology</i> , 2013, 58, 957-964.	3.0	24
13	A method for modeling laterally asymmetric proton beamlets resulting from collimation. <i>Medical Physics</i> , 2015, 42, 1321-1334.	3.0	23
14	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
15	Dynamic rotating shield brachytherapy. <i>Medical Physics</i> , 2013, 40, 121703.	3.0	20
16	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
17	Multihelix rotating shield brachytherapy for cervical cancer. <i>Medical Physics</i> , 2015, 42, 6579-6588.	3.0	18
18	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

#	ARTICLE	IF	CITATIONS
19	Design of a focused collimator for proton therapy spot scanning using Monte Carlo methods. Medical Physics, 2020, 47, 2725-2734.	3.0	17
20	Paddle-based rotating shield brachytherapy. Medical Physics, 2015, 42, 5992-6003.	3.0	16
21	Efficient ¹⁶⁹ Yb high-dose-rate brachytherapy source production using reactivation. Medical Physics, 2019, 46, 2935-2943.	3.0	15
22	High-dose MVCT image guidance for stereotactic body radiation therapy. Medical Physics, 2012, 39, 4812-4819.	3.0	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.	9.0	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.	0.9	13
25	Technical Note: Optimization of spot and trimmer position during dynamically collimated proton therapy. Medical Physics, 2019, 46, 1922-1930.	3.0	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.	2.1	10
27	Asymmetric dose-volume optimization with smoothness control for rotating shield brachytherapy. Medical Physics, 2014, 41, 111709.	3.0	10
28	Needle-free cervical cancer treatment using helical multishield intracavitary rotating shield brachytherapy with the ¹⁶⁹ Yb isotope. Medical Physics, 2020, 47, 2061-2071.	3.0	9
29	Assessment of three dead detector correction methods for cone-beam computed tomography. Medical Physics, 2009, 36, 4569-4576.	3.0	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.	1.9	7
31	Fast dose optimization for rotating shield brachytherapy. Medical Physics, 2017, 44, 5384-5392.	3.0	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.	3.0	6
33	¹⁶⁹ Yb-based rotating shield brachytherapy for prostate cancer. Medical Physics, 2020, 47, 6430-6439.	3.0	6
34	Absorbed dose distributions from beta-decaying radionuclides: Experimental validation of Monte Carlo tools for radiopharmaceutical dosimetry. Medical Physics, 2020, 47, 5779-5790.	3.0	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.	3.0	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.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Investigating aperture-based approximations to model a focused Dynamic Collimation System for pencil beam scanning proton therapy. Biomedical Physics and Engineering Express, 2022, , .	1.2	2
38	Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. Frontiers in Oncology, 2015, 5, 119.	2.8	1
39	In Regard to Zhang etÂal. International Journal of Radiation Oncology Biology Physics, 2015, 93, 211.	0.8	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.	1.9	0