

Mark Podesta

List of Publications by Year in descending order

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23
papers

528
citations

623574

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642610

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docs citations

23
times ranked

661
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating deformable image registration and scatter correction for CBCT-based dose calculation in adaptive IMPT. <i>Medical Physics</i> , 2016, 43, 5635-5646.	1.6	92
2	Evaluation of a novel triple-channel radiochromic film analysis procedure using EBT2. <i>Physics in Medicine and Biology</i> , 2012, 57, 4353-4368.	1.6	55
3	Time dependent pre-treatment EPID dosimetry for standard and FFF VMAT. <i>Physics in Medicine and Biology</i> , 2014, 59, 4749-4768.	1.6	46
4	A combined dose calculation and verification method for a small animal precision irradiator based on onboard imaging. <i>Medical Physics</i> , 2012, 39, 4155-4166.	1.6	40
5	A fast three-dimensional gamma evaluation using a GPU utilizing texture memory for on-the-fly interpolations. <i>Medical Physics</i> , 2011, 38, 4032-4035.	1.6	34
6	Online pretreatment verification of high-dose rate brachytherapy using an imaging panel. <i>Physics in Medicine and Biology</i> , 2017, 62, 5440-5461.	1.6	31
7	Measured vs simulated portal images for low MU fields on three accelerator types: Possible consequences for 2D portal dosimetry. <i>Medical Physics</i> , 2012, 39, 7470-7479.	1.6	23
8	Time-Resolved Versus Integrated Transit Planar Dosimetry for Volumetric Modulated Arc Therapy. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, NP79-NP87.	0.8	21
9	A novel approach to EPID-based 3D volumetric dosimetry for IMRT and VMAT QA. <i>Physics in Medicine and Biology</i> , 2018, 63, 115002.	1.6	20
10	HDR ¹⁹² Ir source speed measurements using a high speed video camera. <i>Medical Physics</i> , 2015, 42, 412-415.	1.6	17
11	A novel time dependent gamma evaluation function for dynamic 2D and 3D dose distributions. <i>Physics in Medicine and Biology</i> , 2014, 59, 5973-5985.	1.6	16
12	Is integrated transit planar portal dosimetry able to detect geometric changes in lung cancer patients treated with volumetric modulated arc therapy?. <i>Acta Oncologica</i> , 2015, 54, 1501-1507.	0.8	16
13	Simulation of pseudo-CT images based on deformable image registration of ultrasound images: A proof of concept for transabdominal ultrasound imaging of the prostate during radiotherapy. <i>Medical Physics</i> , 2016, 43, 1913-1920.	1.6	16
14	A novel system for commissioning brachytherapy applicators: example of a ring applicator. <i>Physics in Medicine and Biology</i> , 2017, 62, 8360-8375.	1.6	14
15	Time-resolved versus time-integrated portal dosimetry: the role of an object's position with respect to the isocenter in volumetric modulated arc therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 3969-3984.	1.6	13
16	High dose rate and flattening filter free irradiation can be safely implemented in clinical practice. <i>International Journal of Radiation Biology</i> , 2015, 91, 778-785.	1.0	12
17	Automatic multiatlas based organ at risk segmentation in mice. <i>British Journal of Radiology</i> , 2019, 92, 20180364.	1.0	11
18	Weekly kilovoltage cone-beam computed tomography for detection of dose discrepancies during (chemo)radiotherapy for head and neck cancer. <i>Acta Oncologica</i> , 2015, 54, 1483-1489.	0.8	10

#	ARTICLE	IF	CITATIONS
19	VOXSI: A voxelized single- and dual-energy CT scenario generator for quantitative imaging. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 47-52.	1.2	10
20	The effect of different image reconstruction techniques on pre-clinical quantitative imaging and dual-energy CT. <i>British Journal of Radiology</i> , 2019, 92, 20180447.	1.0	10
21	Detection of anatomical changes in lung cancer patients with 2D time-integrated, 2D time-resolved and 3D time-integrated portal dosimetry: a simulation study. <i>Physics in Medicine and Biology</i> , 2017, 62, 6044-6061.	1.6	9
22	What Level of Accuracy Is Achievable for Preclinical Dose Painting Studies on a Clinical Irradiation Platform?. <i>Radiation Research</i> , 2015, 183, 501.	0.7	7
23	Dose rate mapping of VMAT treatments. <i>Physics in Medicine and Biology</i> , 2016, 61, 4048-4060.	1.6	5