

Hilary Byrne

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

284
citations

1040056

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1199594

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docs citations

13
times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Micron-Scale Radiotherapy Dose Deposition in the Lung: Effect of Magnetic Field and Nanoparticlesâ€™a Monte Carlo Simulation. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	2
2	Investigating the use of machine learning to generate ventilation images from CT scans. <i>Medical Physics</i> , 2022, 49, 5258-5267.	3.0	4
3	Enhanced MRI-guided radiotherapy with gadolinium-based nanoparticles: preclinical evaluation with an MRI-linac. <i>Cancer Nanotechnology</i> , 2020, 11, .	3.7	9
4	Roadmap for metal nanoparticles in radiation therapy: current status, translational challenges, and future directions. <i>Physics in Medicine and Biology</i> , 2020, 65, 21RM02.	3.0	101
5	Radio-enhancement by gold nanoparticles and their impact on water radiolysis for x-ray, proton and carbon-ion beams. <i>Physics in Medicine and Biology</i> , 2019, 64, 175005.	3.0	36
6	Technical Note: The first live treatment on a 1.0 Tesla inline <scp>MRI</scp>â€™linac. <i>Medical Physics</i> , 2019, 46, 3254-3258.	3.0	13
7	IMPACT OF NANOPARTICLE CLUSTERING ON DOSE RADIO-ENHANCEMENT. <i>Radiation Protection Dosimetry</i> , 2019, 183, 50-54.	0.8	10
8	Impact of fluorescence emission from gold atoms on surrounding biological tissueâ€™implications for nanoparticle radio-enhancement. <i>Physics in Medicine and Biology</i> , 2017, 62, 3097-3110.	3.0	11
9	Dose enhancement effects to the nucleus and mitochondria from gold nanoparticles in the cytosol. <i>Physics in Medicine and Biology</i> , 2016, 61, 5993-6010.	3.0	49
10	The cytoplasm as a radiation target: an in silico study of microbeam cell irradiation. <i>Physics in Medicine and Biology</i> , 2015, 60, 2325-2337.	3.0	10
11	Radiation damage on sub-cellular scales: beyond DNA. <i>Physics in Medicine and Biology</i> , 2013, 58, 1251-1267.	3.0	24
12	<i>In Silico</i> Nanodosimetry: New Insights into Nontargeted Biological Responses to Radiation. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	1.3	15