Hilary Byrne

List of Publications by Year
in descending order

12	284	1040056 9	1199594 12
papers	citations	h-index	g-index

13	13	13	478
all docs	docs citations	times ranked	citing authors

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