Maria Amor Duch

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparison of dose calculation algorithms in phantoms with lung equivalent heterogeneities under conditions of lateral electronic disequilibrium. Medical Physics, 2004, 31, 2899-2911.	3.0	179
2	SBRT of lung tumours: Monte Carlo simulation with PENELOPE of dose distributions including respiratory motion and comparison with different treatment planning systems. Physics in Medicine and Biology, 2007, 52, 4265-4281.	3.0	64
3	Dose distributions in SBRT of lung tumors: Comparison between two different treatment planning algorithms and Monte-Carlo simulation including breathing motions. Acta Oncológica, 2006, 45, 978-988.	1.8	60
4	Performance of several active personal dosemeters in interventional radiology and cardiology. Radiation Measurements, 2011, 46, 1266-1270.	1.4	53
5	Comparison of dose calculation algorithms in slab phantoms with cortical bone equivalent heterogeneities. Medical Physics, 2007, 34, 3323-3333.	3.0	50
6	Eye lens dose in interventional cardiology. Radiation Protection Dosimetry, 2015, 165, 289-293.	0.8	38
7	Influence of dosemeter position for the assessment of eye lens dose during interventional cardiology. Radiation Protection Dosimetry, 2015, 164, 79-83.	0.8	35
8	Measurements of eye lens doses in interventional cardiology using OSL and electronic dosemeters. Radiation Protection Dosimetry, 2014, 162, 569-576.	0.8	32
9	Thermoluminescence dosimetry applied to in vivo dose measurements for total body irradiation techniques. Radiotherapy and Oncology, 1998, 47, 319-324.	0.6	27
10	Monte Carlo simulation of MOSFET detectors for high-energy photon beams using the PENELOPE code. Physics in Medicine and Biology, 2007, 52, 303-316.	3.0	25
11	An algorithm to assess the need for clinical Monte Carlo dose calculation for small proton therapy fields based on quantification of tissue heterogeneity. Medical Physics, 2013, 40, 081704.	3.0	24
12	Midplane dose determination during total body irradiation using in vivo dosimetry. Radiotherapy and Oncology, 1998, 49, 91-98.	0.6	22
13	Influence of long-range atmospheric transport pathways and climate teleconnection patterns on the variability of surface 210Pb and 7Be concentrations in southwestern Europe. Journal of Environmental Radioactivity, 2016, 165, 103-114.	1.7	16
14	Material characterization and Monte Carlo simulation of lead and non-lead X-Ray shielding materials. Radiation Physics and Chemistry, 2020, 174, 108892.	2.8	16
15	Dose evaluation in lung-equivalent media in high-energy photon external radiotherapy. Radiation Protection Dosimetry, 2006, 120, 43-47.	0.8	14
16	The use of different types of thermoluminescent dosimeters to measure extremity doses in nuclear medicine. Radiation Measurements, 2011, 46, 1835-1838.	1.4	13
17	Comparison of TLD-100 and MCP-Ns for use as an extremity dosemeter for PET nuclear medicine staff. Radiation Measurements, 2008, 43, 607-610.	1.4	11
18	AIR KERMA TO <i>H</i> _p (3) CONVERSION COEFFICIENTS FOR IEC 61267 RQR X-RAY RADIATION QUALITIES: APPLICATION TO DOSE MONITORING OF THE LENS OF THE EYE IN MEDICAL DIAGNOSTICS. Radiation Protection Dosimetry, 2016, 170, 45-48.	0.8	10

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19	Validation of the MC-GPU Monte Carlo code against the PENELOPE/penEasy code system and benchmarking against experimental conditions for typical radiation qualities and setups in interventional radiology and cardiology. Physica Medica, 2021, 82, 64-71.	0.7	10
20	A parametric study of occupational radiation dose in interventional radiology by Monte-Carlo simulations. Physica Medica, 2020, 78, 58-70.	0.7	9
21	The effect of tungsten particle sizes on X-ray attenuation properties. Radiation Physics and Chemistry, 2021, 187, 109586.	2.8	9
22	Field correction factors for a PTW-31016 Pinpoint ionization chamber for both flattened and unflattened beams. Study of the main sources of uncertainties. Medical Physics, 2017, 44, 1930-1938.	3.0	8
23	EURADOS intercomparison of passive H*(10) area dosemeters 2014. Radiation Measurements, 2017, 106, 229-234.	1.4	8
24	Medically-derived radionuclides levels in seven heterogeneous urban wastewater treatment plants: The role of operating conditions and catchment area. Science of the Total Environment, 2019, 663, 818-829.	8.0	8
25	Comparison of two extremity dosemeters based on LiF:Mg,Cu,P thin detectors for mixed beta–gamma fields. Radiation Protection Dosimetry, 2006, 120, 316-320.	0.8	7
26	On the suitability of ultrathin detectors for absorbed dose assessment in the presence of highâ€density heterogeneities. Medical Physics, 2014, 41, 081710.	3.0	7
27	Natural and artificial radionuclides in sludge, sand, granular activated carbon and reverse osmosis brine from a metropolitan drinking water treatment plant. Journal of Environmental Radioactivity, 2017, 177, 233-240.	1.7	7
28	Long-term intercomparison of Spanish environmental dosimetry services. Study of transit dose estimations. Radiation Measurements, 2008, 43, 576-579.	1.4	6
29	Coincidence summing corrections for volume samples using the PENELOPE/penEasy Monte Carlo code. Applied Radiation and Isotopes, 2014, 87, 376-379.	1.5	6
30	Comparison of different sampling methods for the determination of low-level radionuclides in air. Applied Radiation and Isotopes, 2016, 109, 456-459.	1.5	6
31	Status of passive environmental dosimetry in Europe. Radiation Measurements, 2017, 106, 242-245.	1.4	5
32	Experimental verification of Acuros XB in the presence of lung-equivalent heterogeneities. Radiation Measurements, 2017, 106, 357-360.	1.4	5
33	Determining the probability of locating peaks using computerized peak-location methods in gamma-ray spectra as a function of the relative peak-area uncertainty. Applied Radiation and Isotopes, 2020, 155, 108920.	1.5	3
34	Validation of aerosol low-level activities by comparison with a deep underground laboratory. Applied Radiation and Isotopes, 2014, 87, 66-69.	1.5	2
35	Validation of organ dose calculations with PyMCGPU-IR in realistic interventional set-ups. Physica Medica, 2022, 93, 29-37.	0.7	2
36	Systematic influences on the areas of peaks in gamma-ray spectra that have a large statistical uncertainty. Applied Radiation and Isotopes, 2018, 134, 51-55.	1.5	1

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37	Dose assessment at a phosphate industry landfill using solid state detectors. Radiation Measurements, 2008, 43, 664-667.	1.4	0
38	Impact of Region-of-Interest Delineation Methods, Reconstruction Algorithms, and Intra- and Inter-Operator Variability on Internal Dosimetry Estimates Using PET. Molecular Imaging and Biology, 2017, 19, 305-314.	2.6	0
39	Dose calculations in aircrafts after Fukushima nuclear power plant accident – Preliminary study for aviation operations. Journal of Environmental Radioactivity, 2019, 205-206, 24-33.	1.7	0
40	SU-E-T-290: Dosimetric Verification of Helical Tomotherapy against Experimental Measurements for Head and Neck Treatments. Medical Physics, 2012, 39, 3770-3770.	3.0	0
41	MO-F-BRB-03: A Method to Assess the Need for Clinical Monte Carlo Dose Calculations for Small Proton Therapy Fields. Medical Physics, 2012, 39, 3874-3874.	3.0	0