

# Maria Amor Duch

## List of Publications by Year in descending order

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41  
papers

798  
citations

623699

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501174

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times ranked

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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. <i>Medical Physics</i> , 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. <i>Physics in Medicine and Biology</i> , 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. <i>Acta OncolÁgica</i> , 2006, 45, 978-988.	1.8	60
4	Performance of several active personal dosimeters in interventional radiology and cardiology. <i>Radiation Measurements</i> , 2011, 46, 1266-1270.	1.4	53
5	Comparison of dose calculation algorithms in slab phantoms with cortical bone equivalent heterogeneities. <i>Medical Physics</i> , 2007, 34, 3323-3333.	3.0	50
6	Eye lens dose in interventional cardiology. <i>Radiation Protection Dosimetry</i> , 2015, 165, 289-293.	0.8	38
7	Influence of dosimeter position for the assessment of eye lens dose during interventional cardiology. <i>Radiation Protection Dosimetry</i> , 2015, 164, 79-83.	0.8	35
8	Measurements of eye lens doses in interventional cardiology using OSL and electronic dosimeters. <i>Radiation Protection Dosimetry</i> , 2014, 162, 569-576.	0.8	32
9	Thermoluminescence dosimetry applied to in vivo dose measurements for total body irradiation techniques. <i>Radiotherapy and Oncology</i> , 1998, 47, 319-324.	0.6	27
10	Monte Carlo simulation of MOSFET detectors for high-energy photon beams using the PENELOPE code. <i>Physics in Medicine and Biology</i> , 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. <i>Medical Physics</i> , 2013, 40, 081704.	3.0	24
12	Midplane dose determination during total body irradiation using in vivo dosimetry. <i>Radiotherapy and Oncology</i> , 1998, 49, 91-98.	0.6	22
13	Influence of long-range atmospheric transport pathways and climate teleconnection patterns on the variability of surface <sup>210</sup> Pb and <sup>7</sup> Be concentrations in southwestern Europe. <i>Journal of Environmental Radioactivity</i> , 2016, 165, 103-114.	1.7	16
14	Material characterization and Monte Carlo simulation of lead and non-lead X-Ray shielding materials. <i>Radiation Physics and Chemistry</i> , 2020, 174, 108892.	2.8	16
15	Dose evaluation in lung-equivalent media in high-energy photon external radiotherapy. <i>Radiation Protection Dosimetry</i> , 2006, 120, 43-47.	0.8	14
16	The use of different types of thermoluminescent dosimeters to measure extremity doses in nuclear medicine. <i>Radiation Measurements</i> , 2011, 46, 1835-1838.	1.4	13
17	Comparison of TLD-100 and MCP-Ns for use as an extremity dosimeter for PET nuclear medicine staff. <i>Radiation Measurements</i> , 2008, 43, 607-610.	1.4	11
18	AIR KERMA TO<i>H</i><sub>p</sub>(3) CONVERSION COEFFICIENTS FOR IEC 61267 RQR X-RAY RADIATION QUALITIES: APPLICATION TO DOSE MONITORING OF THE LENS OF THE EYE IN MEDICAL DIAGNOSTICS. <i>Radiation Protection Dosimetry</i> , 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. <i>Physica Medica</i> , 2021, 82, 64-71.	0.7	10
20	A parametric study of occupational radiation dose in interventional radiology by Monte-Carlo simulations. <i>Physica Medica</i> , 2020, 78, 58-70.	0.7	9
21	The effect of tungsten particle sizes on X-ray attenuation properties. <i>Radiation Physics and Chemistry</i> , 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. <i>Medical Physics</i> , 2017, 44, 1930-1938.	3.0	8
23	EURADOS intercomparison of passive H*(10) area dosimeters 2014. <i>Radiation Measurements</i> , 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. <i>Science of the Total Environment</i> , 2019, 663, 818-829.	8.0	8
25	Comparison of two extremity dosimeters based on LiF:Mg,Cu,P thin detectors for mixed beta+gamma fields. <i>Radiation Protection Dosimetry</i> , 2006, 120, 316-320.	0.8	7
26	On the suitability of ultrathin detectors for absorbed dose assessment in the presence of high-density heterogeneities. <i>Medical Physics</i> , 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. <i>Journal of Environmental Radioactivity</i> , 2017, 177, 233-240.	1.7	7
28	Long-term intercomparison of Spanish environmental dosimetry services. Study of transit dose estimations. <i>Radiation Measurements</i> , 2008, 43, 576-579.	1.4	6
29	Coincidence summing corrections for volume samples using the PENELOPE/penEasy Monte Carlo code. <i>Applied Radiation and Isotopes</i> , 2014, 87, 376-379.	1.5	6
30	Comparison of different sampling methods for the determination of low-level radionuclides in air. <i>Applied Radiation and Isotopes</i> , 2016, 109, 456-459.	1.5	6
31	Status of passive environmental dosimetry in Europe. <i>Radiation Measurements</i> , 2017, 106, 242-245.	1.4	5
32	Experimental verification of Acuros XB in the presence of lung-equivalent heterogeneities. <i>Radiation Measurements</i> , 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. <i>Applied Radiation and Isotopes</i> , 2020, 155, 108920.	1.5	3
34	Validation of aerosol low-level activities by comparison with a deep underground laboratory. <i>Applied Radiation and Isotopes</i> , 2014, 87, 66-69.	1.5	2
35	Validation of organ dose calculations with PyMCGPU-IR in realistic interventional set-ups. <i>Physica Medica</i> , 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. <i>Applied Radiation and Isotopes</i> , 2018, 134, 51-55.	1.5	1

#	ARTICLE	IF	CITATIONS
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