

# Maria Amor Duch

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41  
papers

651  
citations

13  
h-index

25  
g-index

41  
ext. papers

736  
ext. citations

2.4  
avg, IF

3.37  
L-index

#	Paper	IF	Citations
41	Validation of organ dose calculations with PyMCGPU-IR in realistic interventional set-ups.. <i>Physica Medica</i> , <b>2021</b> , 93, 29-37	2.7	0
40	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> , <b>2021</b> , 82, 64-71	2.7	3
39	The effect of tungsten particle sizes on X-ray attenuation properties. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 187, 109586	2.5	1
38	A parametric study of occupational radiation dose in interventional radiology by Monte-Carlo simulations. <i>Physica Medica</i> , <b>2020</b> , 78, 58-70	2.7	2
37	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> , <b>2020</b> , 155, 108920	1.7	1
36	Material characterization and Monte Carlo simulation of lead and non-lead X-Ray shielding materials. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 174, 108892	2.5	4
35	Dose calculations in aircrafts after Fukushima nuclear power plant accident - Preliminary study for aviation operations. <i>Journal of Environmental Radioactivity</i> , <b>2019</b> , 205-206, 24-33	2.4	
34	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> , <b>2019</b> , 663, 818-829	10.2	6
33	Systematic influences on the areas of peaks in gamma-ray spectra that have a large statistical uncertainty. <i>Applied Radiation and Isotopes</i> , <b>2018</b> , 134, 51-55	1.7	1
32	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> , <b>2017</b> , 44, 1930-1938	4.4	7
31	Status of passive environmental dosimetry in Europe. <i>Radiation Measurements</i> , <b>2017</b> , 106, 242-245	1.5	5
30	Experimental verification of Acuros XB in the presence of lung-equivalent heterogeneities. <i>Radiation Measurements</i> , <b>2017</b> , 106, 357-360	1.5	4
29	Impact of Region-of-Interest Delineation Methods, Reconstruction Algorithms, and Intra- and Inter-Operator Variability on Internal Dosimetry Estimates Using PET. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 305-314	3.8	
28	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> , <b>2017</b> , 177, 233-240	2.4	7
27	EURADOS intercomparison of passive H*(10) area dosimeters 2014. <i>Radiation Measurements</i> , <b>2017</b> , 106, 229-234	1.5	5
26	Comparison of different sampling methods for the determination of low-level radionuclides in air. <i>Applied Radiation and Isotopes</i> , <b>2016</b> , 109, 456-459	1.7	4
25	AIR KERMA TO Hp(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> , <b>2016</b> , 170, 45-8	0.9	9

24	Influence of long-range atmospheric transport pathways and climate teleconnection patterns on the variability of surface Pb and Be concentrations in southwestern Europe. <i>Journal of Environmental Radioactivity</i> , <b>2016</b> , 165, 103-114	2.4	14
23	Influence of dosimeter position for the assessment of eye lens dose during interventional cardiology. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 164, 79-83	0.9	28
22	Eye lens dose in interventional cardiology. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 165, 289-93	0.9	27
21	Measurements of eye lens doses in interventional cardiology using OSL and electronic dosimeters. <i>Radiation Protection Dosimetry</i> , <b>2014</b> , 162, 569-76	0.9	29
20	Validation of aerosol low-level activities by comparison with a deep underground laboratory. <i>Applied Radiation and Isotopes</i> , <b>2014</b> , 87, 66-9	1.7	2
19	On the suitability of ultrathin detectors for absorbed dose assessment in the presence of high-density heterogeneities. <i>Medical Physics</i> , <b>2014</b> , 41, 081710	4.4	5
18	Coincidence summing corrections for volume samples using the PENELOPE/penEasy Monte Carlo code. <i>Applied Radiation and Isotopes</i> , <b>2014</b> , 87, 376-9	1.7	5
17	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> , <b>2013</b> , 40, 081704	4.4	23
16	SU-E-T-290: Dosimetric Verification of Helical Tomotherapy against Experimental Measurements for Head and Neck Treatments. <i>Medical Physics</i> , <b>2012</b> , 39, 3770	4.4	
15	MO-F-BRB-03: A Method to Assess the Need for Clinical Monte Carlo Dose Calculations for Small Proton Therapy Fields. <i>Medical Physics</i> , <b>2012</b> , 39, 3874	4.4	
14	Performance of several active personal dosimeters in interventional radiology and cardiology. <i>Radiation Measurements</i> , <b>2011</b> , 46, 1266-1270	1.5	51
13	The use of different types of thermoluminescent dosimeters to measure extremity doses in nuclear medicine. <i>Radiation Measurements</i> , <b>2011</b> , 46, 1835-1838	1.5	10
12	Comparison of TLD-100 and MCP-Ns for use as an extremity dosimeter for PET nuclear medicine staff. <i>Radiation Measurements</i> , <b>2008</b> , 43, 607-610	1.5	11
11	Long-term intercomparison of Spanish environmental dosimetry services. Study of transit dose estimations. <i>Radiation Measurements</i> , <b>2008</b> , 43, 576-579	1.5	3
10	Dose assessment at a phosphate industry landfill using solid state detectors. <i>Radiation Measurements</i> , <b>2008</b> , 43, 664-667	1.5	
9	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> , <b>2007</b> , 52, 4265-81	3.8	55
8	Monte Carlo simulation of MOSFET detectors for high-energy photon beams using the PENELOPE code. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 303-16	3.8	20
7	Comparison of dose calculation algorithms in slab phantoms with cortical bone equivalent heterogeneities. <i>Medical Physics</i> , <b>2007</b> , 34, 3323-33	4.4	42

6	Dose evaluation in lung-equivalent media in high-energy photon external radiotherapy. <i>Radiation Protection Dosimetry</i> , <b>2006</b> , 120, 43-7	0.9	13
5	Dose distributions in SBRT of lung tumors: Comparison between two different treatment planning algorithms and Monte-Carlo simulation including breathing motions. <i>Acta Oncologica</i> , <b>2006</b> , 45, 978-88	3.2	51
4	Comparison of two extremity dosimeters based on LiF:Mg,Cu,P thin detectors for mixed beta-gamma fields. <i>Radiation Protection Dosimetry</i> , <b>2006</b> , 120, 316-20	0.9	6
3	Comparison of dose calculation algorithms in phantoms with lung equivalent heterogeneities under conditions of lateral electronic disequilibrium. <i>Medical Physics</i> , <b>2004</b> , 31, 2899-911	4.4	156
2	Thermoluminescence dosimetry applied to in vivo dose measurements for total body irradiation techniques. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 47, 319-24	5.3	23
1	Midplane dose determination during total body irradiation using in vivo dosimetry. <i>Radiotherapy and Oncology</i> , <b>1998</b> , 49, 91-8	5.3	18