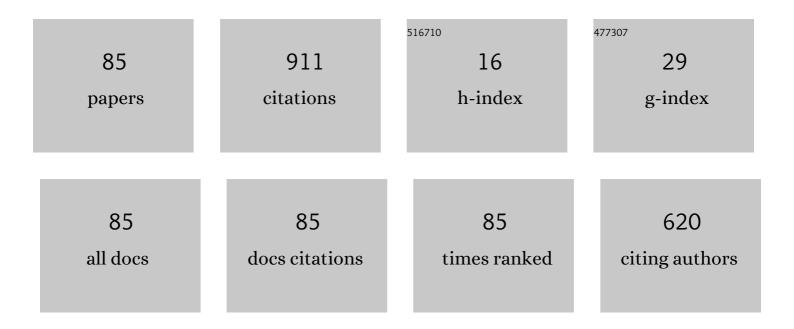
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	AGATA—Advanced GAmma Tracking Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 668, 26-58.	1.6	378
2	Sorption and desorption of radioactive noble gases in polycarbonates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 620-627.	1.6	40
3	Measurement of radon-222 in water by absorption in Makrofol. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 574, 202-204.	1.6	24
4	Automatic Counting of Electrochemically Etched Tracks in Compact Discs. Application to Retrospective Measurements of Rn-222. IEEE Transactions on Nuclear Science, 2010, 57, 300-308.	2.0	24
5	Analytical calculations of counting losses in internal gas proportional counting. Applied Radiation and Isotopes, 2002, 56, 231-236.	1.5	21
6	Measurement of 222Rn and 226Ra in water by absorption of radon in polycarbonates and etching alpha-tracks. Radiation Measurements, 2011, 46, 119-126.	1.4	20
7	Automatic counting of chemically etched tracks by means of a computer scanner. Radiation Measurements, 2005, 39, 557-559.	1.4	19
8	Evaluation of the accidental coincidence counting rates in TDCR counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 977, 164292.	1.6	19
9	Solubility of krypton, xenon and radon in polycarbonates. Application for measurement of their radioactive isotopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 629, 323-328.	1.6	18
10	Measurement of 222 Rn by absorption in plastic scintillators and alpha/beta pulse shape discrimination. Applied Radiation and Isotopes, 2016, 110, 236-243.	1.5	18
11	Measurement of and in air by absorption in Makrofol. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 657-659.	1.6	17
12	Radon mapping by retrospective measurements – an approach based on CDs/DVDs. Journal of Environmental Radioactivity, 2010, 101, 821-825.	1.7	17
13	Measurement of Rn-222 in water by absorption in polycarbonates and liquid scintillation counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 677, 31-40.	1.6	17
14	Determination of the diffusion coefficient and solubility of radon in plastics. Radiation Protection Dosimetry, 2011, 145, 123-126.	0.8	16
15	Laboratory facility to create reference radonÂ+Âthoron atmosphere under dynamic exposure conditions. Journal of Environmental Radioactivity, 2017, 166, 181-187.	1.7	16
16	Design and performance of a miniature TDCR counting system. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 583-589.	1.5	16
17	Measurement of krypton-85 in water by absorption in polycarbonates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 491-494.	1.6	12
18	Liquid scintillation counting of polycarbonates: A sensitive technique for measurement of activity concentration of some radioactive noble gases. Applied Radiation and Isotopes, 2014, 93, 87-95,	1.5	12

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19	Development and applications of a miniature TDCR acquisition system for in-situ radionuclide metrology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161202.	1.6	12
20	Determination of 222 Rn absorption properties of polycarbonate foils by liquid scintillation counting. Application to 222 Rn measurements. Applied Radiation and Isotopes, 2016, 109, 270-275.	1.5	11
21	Performance of portable TDCR systems developed at LNE-LNHB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166721.	1.6	11
22	Study of non-equilibrium electron avalanches, application to proportional counters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 672-685.	1.6	10
23	Traceability of CDs/DVDs used as retrospective 222Rn detectors to reference STAR laboratory. Radiation Measurements, 2013, 59, 165-171.	1.4	10
24	Pilot Study of the Application of Plastic Scintillation Microspheres to Rn-222 Detection and Measurement. IEEE Transactions on Nuclear Science, 2016, 63, 1209-1217.	2.0	10
25	Pilot experiments on retrospective thoron measurements by CDs/DVDs. Radiation Measurements, 2013, 50, 218-222.	1.4	8
26	Experimental study of the response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2013, 50, 141-144.	1.4	8
27	In quest of the optimal coincidence resolving time in TDCR LSC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164846.	1.6	6
28	SUâ€GGâ€lâ€109: Using EGSnrc Within GATE to Improve the Efficiency Of positron Emission Tomography Simulations. Medical Physics, 2008, 35, 2667-2667.	3.0	6
29	New sensitive technique for measurement of krypton-85 based on absorption in polycarbonates and liquid scintillation counting. , 2009, , .		5
30	Diffusion lengths and partition coefficients of 131mXe and 85Kr in Makrofol N and Makrofol DE polycarbonates. Applied Radiation and Isotopes, 2018, 134, 269-274.	1.5	5
31	Study of two different coincidence counting algorithms in TDCR measurements. Applied Radiation and Isotopes, 2019, 154, 108895.	1.5	5
32	Partition Coefficients and Diffusion Lengths of 222Rn in Some Polymers at Different Temperatures. International Journal of Environmental Research and Public Health, 2019, 16, 4523.	2.6	5
33	Evaluation of synthesis conditions for plastic scintillation foils used to measure alpha- and beta-emitting radionuclides. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 135-145.	1.5	5
34	Retrospective Rn-220 measurements by compact discs. , 2012, , .		4
35	Novel approaches in radon and thoron dosimetry. , 2014, , .		4
36	A high-sensitivity method for the measurement of 222Rn based on liquid scintillation counting of polycarbonate powder. Radiation Protection Dosimetry, 2014, 160, 188-191.	0.8	4

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37	Metrological tests of a 200 L calibration source for HPGE detector systems for assay of radioactive waste drums. Applied Radiation and Isotopes, 2016, 109, 114-117.	1.5	4
38	Synthesis and characterisation of scintillating microspheres made of polystyrene/polycarbonate for 222Rn measurements. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 637-649.	1.5	4
39	Unperturbed, high spatial resolution measurement of Radon-222 in soil-gas depth profile. Journal of Environmental Radioactivity, 2019, 196, 253-258.	1.7	4
40	Methods for the experimental study of 220Rn homogeneity in calibration chambers. Applied Radiation and Isotopes, 2020, 165, 109259.	1.5	4
41	A fast technique for Monte Carlo simulation of the process of gas multiplication in cylindrical proportional counters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 161-164.	1.6	3
42	Detecting visual differences in reconstructed images using a region-based test for outliers. , 2010, , .		3
43	Influence of the water temperature on measurements of Rn- <sup>222</sup> in water by liquid scintillation counting of polycarbonates. , 2012, , .		3
44	Numerical modelling of the activity concentration measurements of beta-radioactive noble gases by absorption in polycarbonates and external beta-counting. Radiation Measurements, 2012, 47, 303-310.	1.4	3
45	Optimization of etching conditions of CDs/DVDs used as detectors for 222Rn. Radiation Measurements, 2015, 83, 36-40.	1.4	3
46	Application of scintillation counting using polycarbonates to radon measurements. Radiation Measurements, 2016, 92, 32-38.	1.4	3
47	Testing and Calibration of CDs as Radon Detectors at Highly Variable Radon Concentrations and Temperatures. International Journal of Environmental Research and Public Health, 2019, 16, 3038.	2.6	3
48	Radioactive Noble Gas Detection and Measurement with Plastic Scintillators. Topics in Applied Physics, 2021, , 385-423.	0.8	3
49	Time-domain based evaluation of detection efficiency in liquid scintillation counting. Scientific Reports, 2021, 11, 12424.	3.3	3
50	Measurement of the half-life of excited nuclear states using liquid scintillation counting. Applied Radiation and Isotopes, 2021, 176, 109845.	1.5	3
51	SU-E-I-112: New Algorithm for Identification of Differences between Noisy Medical Images. Medical Physics, 2011, 38, 3421-3421.	3.0	3
52	Measurements of Rn-222 in water by liquid scintillation counting of polycarbonates. , 2011, , .		2
53	Measurements of <sup>131</sup> I, <sup>134</sup> Cs and <sup>137</sup> Cs in environmental samples in Bulgaria after the Fukushima accident. , 2011, ,		2
54	Influence of photon energy cuts on PET Monte Carlo simulation results. Medical Physics, 2012, 39, 4175-4186.	3.0	2

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55	Portal image registration using the phase correlation method. , 2013, , .		2
56	Development of a portable scintillation spectrometer with alpha-/beta- and neutron-/gamma- pulse-shape discrimination capabilities. , 2018, , .		2
57	ldentifying radon priority areas and dwellings with radon exceedances in Bulgaria using stored CD/DVDs. Journal of Environmental Radioactivity, 2019, 196, 274-280.	1.7	2
58	Tuning the decay time of liquid scintillators. Journal of Luminescence, 2021, 235, 118021.	3.1	2
59	Approaches for reduction of the temperature bias on radon detectors packed in anti-thoron polymer membranes. Applied Radiation and Isotopes, 2021, 177, 109915.	1.5	2
60	Study of <formula> <tex>\$^{222}\$</tex> </formula> Rn Absorption and Detection Properties of EJ-212 and BC-400 Plastic Scintillators. IEEE Transactions on Nuclear Science, 2017, , 1-1.	2.0	2
61	Significance of the corrections for accidental coincidences in liquid scintillation counting measurements. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 3303-3311.	1.5	2
62	A Monte Carlo Simulation of PET of a Real Patient with GATE. , 2010, , .		1
63	Design, production, metrological tests and certification of a large-volume (200L) calibration source for gamma-spectrometry systems for assay of radioactive waste drums. , 2010, , .		1
64	On the possibility to detect some radioactive noble gases by Cherenkov counting of polycarbonates. , 2013, , .		1
65	Influence of the type of CD case on the track density distribution in CDs exposed to thoron. Applied Radiation and Isotopes, 2016, 109, 393-396.	1.5	1
66	Retrospective Rn-220 Measurements by Compact Discs. IEEE Transactions on Nuclear Science, 2016, 63, 333-340.	2.0	1
67	Electronic circuits for the high voltage supply and additional sensors for the polyphemus 222Rn in soil-gas scintillation detector. , 2017, , .		1
68	Design and Field Tests of Scintillation Spectrometer for Continuous Radon in Soil-gas Monitoring. , 2018, , .		1
69	SU-FF-I-147: Monte Carlo Based Evaluation of 3D PET Quantification Inaccuracy for the Lung. Medical Physics, 2009, 36, 2468-2469.	3.0	1
70	Results of the CCRI(II)-K2. H-3 key comparison 2018: measurement of the activity concentration of a tritiated-water source. Metrologia, 2020, 57, 06004.	1.2	1
71	An Algorithm for Automatic Counting of Electrochemically Etched Tracks in Compact Disks Used for Retrospective Measurements of Rn-222. , 2008, , .		0
72	Efficient photon transport in positron emission tomography simulations using VMC++. Journal of Physics: Conference Series, 2008, 102, 012014.	0.4	0

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73	Study of the influence of photon energy cuts on the PET simulation results. , 2009, , .		0
74	A GATE Simulation of a GE Discovery LS PET Scanner with NEMA Image Quality Phantom. , 2010, , .		0
75	Monte Carlo simulations and experimental study of a symmetric AGATA prototype detector. , 2011, , .		0
76	Measurement of Xe-133 in air by absorption in polycarbonates - detection limits and potential applications. , 2011, , .		0
77	NUMERICS: An online image registration and image comparison platform. , 2012, , .		0
78	A synthetic image phantom for evaluation of the performance of numerical algorithms for comparison of noisy medical images. , 2012, , .		0
79	Determination of scaling factors for low and intermediate level dry radioactive waste from kozloduy nuclear power plant. , 2012, , .		0
80	Quantitative comparison of liquid scintillation counting spectra. , 2013, , .		0
81	An approach to study the distribution of radon in natural materials containing radium. , 2013, , .		0
82	Common organics as samples to measure radioxenon after nuclear emergency. , 2015, , .		0
83	High Voltage Power Supply for Photomultipliers with Extended Functionality. , 2018, , .		0
84	Characterization of filters for efficiency variation in TDCR. , 2018, , .		0
85	RADON-222 IN SOIL-GAS MEASUREMENTS BY COMPACT DISCS. COMPARISON TO DIFFUSION CHAMBER MEASUREMENTS. Radiation Protection Dosimetry, 2018, 181, 38-41.	0.8	Ο