

Dobromir Pressyanov

List of Publications by Year in descending order

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81
papers

735
citations

471509

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23
g-index

81
all docs

81
docs citations

81
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Indoor radon detected by compact discs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 457, 665-666.	1.6	35
3	Short solution of the radioactive decay chain equations. American Journal of Physics, 2002, 70, 444-445.	0.7	33
4	Integrated measurements of ²²² Rn by absorption in Makrofol. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 516, 203-208.	1.6	30
5	MODELING A ²²² Rn MEASUREMENT TECHNIQUE BASED ON ABSORPTION IN POLYCARBONATES AND TRACK-ETCH COUNTING. Health Physics, 2009, 97, 604-612.	0.5	30
6	THE COMPACT DISK AS RADON DETECTOR – A LABORATORY STUDY OF THE METHOD. Health Physics, 2003, 84, 642-651.	0.5	26
7	Radon and radon progeny outdoors in a valley of enhanced natural radioactivity. Atmospheric Environment, 1995, 29, 3433-3439.	4.1	24
8	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
9	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
10	A radon ²²² traceability chain from primary standard to field detectors. Applied Radiation and Isotopes, 2000, 52, 427-434.	1.5	23
11	Measurement of ²²² Rn and ²²⁶ Ra in water by absorption of radon in polycarbonates and etching alpha-tracks. Radiation Measurements, 2011, 46, 119-126.	1.4	20
12	Polycarbonates: a long-term highly sensitive radon monitor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 619-621.	1.6	19
13	Automatic counting of chemically etched tracks by means of a computer scanner. Radiation Measurements, 2005, 39, 557-559.	1.4	19
14	Adaptive SBRT by 1.5 Å MR-linac for prostate cancer: On the accuracy of dose delivery in view of the prolonged session time. Physica Medica, 2020, 80, 34-41.	0.7	19
15	Radon progeny deposition in track-detection diffusion chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 509-513.	1.6	18
16	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
17	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
18	Radon mapping by retrospective measurements – an approach based on CDs/DVDs. Journal of Environmental Radioactivity, 2010, 101, 821-825.	1.7	17

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19	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
20	Determination of the diffusion coefficient and solubility of radon in plastics. Radiation Protection Dosimetry, 2011, 145, 123-126.	0.8	16
21	Laboratory facility to create reference radon+thoron atmosphere under dynamic exposure conditions. Journal of Environmental Radioactivity, 2017, 166, 181-187.	1.7	16
22	Automated Planning for Prostate Stereotactic Body Radiation Therapy on the 1.5 T MR-Linac. Advances in Radiation Oncology, 2022, 7, 100865.	1.2	16
23	Track density assessment by obstructed total internal reflection of a laser beam. Radiation Measurements, 1997, 27, 27-30.	1.4	13
24	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
25	Retrospective measurements of thoron and radon by CDs/DVDs: a model approach. Radiation Protection Dosimetry, 2012, 149, 464-468.	0.8	12
26	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
27	Energy-efficient reconstructions and indoor radon: the impact assessed by CDs/DVDs. Journal of Environmental Radioactivity, 2015, 143, 76-79.	1.7	11
28	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
29	Traceability of CDs/DVDs used as retrospective ²²² Rn detectors to reference STAR laboratory. Radiation Measurements, 2013, 59, 165-171.	1.4	10
30	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
31	Logistic of surveys of retrospective radon concentrations by home-stored CDs/DVDs. Radiation Protection Dosimetry, 2011, 145, 300-304.	0.8	8
32	Pilot experiments on retrospective thoron measurements by CDs/DVDs. Radiation Measurements, 2013, 50, 218-222.	1.4	8
33	Experimental study of the response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2013, 50, 141-144.	1.4	8
34	Radon progeny distribution in cylindrical diffusion chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 446-450.	1.6	7
35	New generation of highly sensitive radon detectors based on activated carbon with compensated temperature dependence. Scientific Reports, 2022, 12, 8479.	3.3	7
36	Bronchial dysplasia induced by radiation in miners exposed to ²²² Rn progeny.. Occupational and Environmental Medicine, 1995, 52, 82-85.	2.8	6

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37	New sensitive technique for measurement of krypton-85 based on absorption in polycarbonates and liquid scintillation counting. , 2009, , .		5
38	Modeling response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2011, 46, 357-361.	1.4	5
39	Diffusion lengths and partition coefficients of ^{131m} Xe and ⁸⁵ Kr in Makrofol N and Makrofol DE polycarbonates. Applied Radiation and Isotopes, 2018, 134, 269-274.	1.5	5
40	Modelling the effect of spread in radiosensitivity parameters and repopulation rate on the probability of tumour control. Physica Medica, 2019, 63, 79-86.	0.7	5
41	Theoretical investigation of the impact of different timing schemes in hypofractionated radiotherapy. Medical Physics, 2021, 48, 4085-4098.	3.0	5
42	Retrospective Rn-220 measurements by compact discs. , 2012, , .		4
43	Novel approaches in radon and thoron dosimetry. , 2014, , .		4
44	A high-sensitivity method for the measurement of ²²² Rn based on liquid scintillation counting of polycarbonate powder. Radiation Protection Dosimetry, 2014, 160, 188-191.	0.8	4
45	THE CD/DVD METHOD AS A TOOL FOR THE HEALTH PHYSICS SERVICE AND VENTILATION DIAGNOSTICS IN UNDERGROUND MINES. Radiation Protection Dosimetry, 2018, 181, 30-33.	0.8	4
46	Unperturbed, high spatial resolution measurement of Radon-222 in soil-gas depth profile. Journal of Environmental Radioactivity, 2019, 196, 253-258.	1.7	4
47	Methods for the experimental study of ²²⁰ Rn homogeneity in calibration chambers. Applied Radiation and Isotopes, 2020, 165, 109259.	1.5	4
48	Integrated Measurements of Short-lived ²²² Rn Progeny by Rotating Filters. Health Physics, 1993, 64, 522-527.	0.5	3
49	Integrated Measurements of ²¹² Pb and ²¹² Bi in the Air by Rotating Filters. Health Physics, 1995, 68, 261-265.	0.5	3
50	Measurement of ²²² Rn in soil gas by combination of thermoluminescent and solid-state nuclear track detectors. Environment International, 1996, 22, 491-493.	10.0	3
51	Influence of the water temperature on measurements of Rn- ²²² in water by liquid scintillation counting of polycarbonates. , 2012, , .		3
52	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
53	Optimization of etching conditions of CDs/DVDs used as detectors for ²²² Rn. Radiation Measurements, 2015, 83, 36-40.	1.4	3
54	Application of scintillation counting using polycarbonates to radon measurements. Radiation Measurements, 2016, 92, 32-38.	1.4	3

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55	Passive radon monitors with part-time sensitivity to radon. Radiation Measurements, 2018, 118, 72-76.	1.4	3
56	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
57	Statistical precision of integrated measurements of ^{222}Rn and ^{220}Rn decay products in the air by a rotating filter device. Environment International, 1996, 22, 607-610.	10.0	2
58	Excess lung cancer incidence and radon indoors in a Bulgarian town. Journal of Epidemiology and Community Health, 1999, 53, 448-448.	3.7	2
59	Measurements of Rn-222 in water by liquid scintillation counting of polycarbonates. , 2011, , .		2
60	COMPARATIVE STUDY OF RADON AND THORON MEASUREMENTS IN FOUR ROMANIAN SHOW CAVES. Radiation Protection Dosimetry, 2017, 177, 181-185.	0.8	2
61	Investigation of the effect of natural tumor cell death on radiotherapy outcomes. Physics in Medicine and Biology, 2018, 63, 205001.	3.0	2
62	EP-1917 Variable versus conventional inter-fraction intervals in SBRT. Radiotherapy and Oncology, 2019, 133, S1042.	0.6	2
63	Identifying 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
64	The Impact of Different Timing Schedules on Prostate HDR-Mono-Brachytherapy. A TCP Modeling Investigation. Cancers, 2021, 13, 4899.	3.7	2
65	Integrated measurements of ^{218}Po , ^{214}Pb and in air under environmental concentrations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 397, 448-454.	1.6	1
66	Integrated measurements of ^{218}Po , ^{214}Pb and in air under environmental concentrations "mathematical supplement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 397, 455-457.	1.6	1
67	Tests of CDs/DVDs as passive radon and thoron detectors for mines and caves. , 2015, , .		1
68	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
69	Retrospective Rn-220 Measurements by Compact Discs. IEEE Transactions on Nuclear Science, 2016, 63, 333-340.	2.0	1
70	High Sensitivity Passive Radon Detector for Measuring Radon in Low-background Underground Nuclear/Particle Physics Laboratories. , 2018, , .		1
71	A NEW GENERATION OF PASSIVE RADON MONITORS: THE FILM-BADGES FOR OCCUPATIONAL EXPOSURES. Radiation Protection Dosimetry, 2018, 181, 15-19.	0.8	1
72	Skin Dose for Workers in Uranium Milling. Radiation Protection Dosimetry, 1991, 38, 315-318.	0.8	0

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73	Short-lived Alpha Sources of Energies 6.0 MeV and 7.69 MeV for Calibration Purposes. Radiation Protection Dosimetry, 2001, 94, 281-285.	0.8	0
74	An Algorithm for Automatic Counting of Electrochemically Etched Tracks in Compact Disks Used for Retrospective Measurements of Rn-222. , 2008, , .		0
75	Measurement of Xe-133 in air by absorption in polycarbonates - detection limits and potential applications. , 2011, , .		0
76	Measuring radioactive noble gases by absorption in polycarbonates and other organics: From radon indoors to nuclear safety. , 2013, , .		0
77	Common organics as samples to measure radon after nuclear emergency. , 2015, , .		0
78	Diffusion length of Rn-222 in home-stored CDs/DVDs " influence on Rn-222 and Rn-220 measurements. , 2016, , .		0
79	EP-1987: TCP and Gaussian Radiosensitivities. Radiotherapy and Oncology, 2018, 127, S1080-S1081.	0.6	0
80	RADON-222 IN SOIL-GAS MEASUREMENTS BY COMPACT DISCS. COMPARISON TO DIFFUSION CHAMBER MEASUREMENTS. Radiation Protection Dosimetry, 2018, 181, 38-41.	0.8	0
81	A Method for Identification and Assessment of Radon Plumes by Absorption in Polycarbonates. Sensors, 2021, 21, 8107.	3.8	0