

Dobromir Pressyanov

List of Publications by Year in descending order

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81
papers

735
citations

471509

17
h-index

642732

23
g-index

81
all docs

81
docs citations

81
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Planning for Prostate Stereotactic Body Radiation Therapy on the 1.5 T MR-Linac. <i>Advances in Radiation Oncology</i> , 2022, 7, 100865.	1.2	16
2	New generation of highly sensitive radon detectors based on activated carbon with compensated temperature dependence. <i>Scientific Reports</i> , 2022, 12, 8479.	3.3	7
3	Theoretical investigation of the impact of different timing schemes in hypofractionated radiotherapy. <i>Medical Physics</i> , 2021, 48, 4085-4098.	3.0	5
4	The Impact of Different Timing Schedules on Prostate HDR-Mono-Brachytherapy. A TCP Modeling Investigation. <i>Cancers</i> , 2021, 13, 4899.	3.7	2
5	A Method for Identification and Assessment of Radioxenon Plumes by Absorption in Polycarbonates. <i>Sensors</i> , 2021, 21, 8107.	3.8	0
6	Adaptive SBRT by 1.5ÂT MR-linac for prostate cancer: On the accuracy of dose delivery in view of the prolonged session time. <i>Physica Medica</i> , 2020, 80, 34-41.	0.7	19
7	Methods for the experimental study of ²²⁰ Rn homogeneity in calibration chambers. <i>Applied Radiation and Isotopes</i> , 2020, 165, 109259.	1.5	4
8	Testing and Calibration of CDs as Radon Detectors at Highly Variable Radon Concentrations and Temperatures. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3038.	2.6	3
9	EP-1917 Variable versus conventional inter-fraction intervals in SBRT. <i>Radiotherapy and Oncology</i> , 2019, 133, S1042.	0.6	2
10	Modelling the effect of spread in radiosensitivity parameters and repopulation rate on the probability of tumour control. <i>Physica Medica</i> , 2019, 63, 79-86.	0.7	5
11	Identifying radon priority areas and dwellings with radon exceedances in Bulgaria using stored CD/DVDs. <i>Journal of Environmental Radioactivity</i> , 2019, 196, 274-280.	1.7	2
12	Unperturbed, high spatial resolution measurement of Radon-222 in soil-gas depth profile. <i>Journal of Environmental Radioactivity</i> , 2019, 196, 253-258.	1.7	4
13	Diffusion lengths and partition coefficients of ¹³¹ mXe and ⁸⁵ Kr in Makrofol N and Makrofol DE polycarbonates. <i>Applied Radiation and Isotopes</i> , 2018, 134, 269-274.	1.5	5
14	High Sensitivity Passive Radon Detector for Measuring Radon in Low-background Underground Nuclear/Particle Physics Laboratories. , 2018, , .		1
15	THE CD/DVD METHOD AS A TOOL FOR THE HEALTH PHYSICS SERVICE AND VENTILATION DIAGNOSTICS IN UNDERGROUND MINES. <i>Radiation Protection Dosimetry</i> , 2018, 181, 30-33.	0.8	4
16	Investigation of the effect of natural tumor cell death on radiotherapy outcomes. <i>Physics in Medicine and Biology</i> , 2018, 63, 205001.	3.0	2
17	Passive radon monitors with part-time sensitivity to radon. <i>Radiation Measurements</i> , 2018, 118, 72-76.	1.4	3
18	A NEW GENERATION OF PASSIVE RADON MONITORS: THE FILM-BADGES FOR OCCUPATIONAL EXPOSURES. <i>Radiation Protection Dosimetry</i> , 2018, 181, 15-19.	0.8	1

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19	EP-1987: TCP and Gaussian Radiosensitivities. Radiotherapy and Oncology, 2018, 127, S1080-S1081.	0.6	0
20	RADON-222 IN SOIL-GAS MEASUREMENTS BY COMPACT DISCS. COMPARISON TO DIFFUSION CHAMBER MEASUREMENTS. Radiation Protection Dosimetry, 2018, 181, 38-41.	0.8	0
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	COMPARATIVE STUDY OF RADON AND THORON MEASUREMENTS IN FOUR ROMANIAN SHOW CAVES. Radiation Protection Dosimetry, 2017, 177, 181-185.	0.8	2
23	Diffusion length of Rn-222 in home-stored CDs/DVDs – influence on Rn-222 and Rn-220 measurements. , 2016, , .		0
24	Application of scintillation counting using polycarbonates to radon measurements. Radiation Measurements, 2016, 92, 32-38.	1.4	3
25	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
26	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
27	Retrospective Rn-220 Measurements by Compact Discs. IEEE Transactions on Nuclear Science, 2016, 63, 333-340.	2.0	1
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	Common organics as samples to measure radon after nuclear emergency. , 2015, , .		0
30	Tests of CDs/DVDs as passive radon and thoron detectors for mines and caves. , 2015, , .		1
31	Energy-efficient reconstructions and indoor radon: the impact assessed by CDs/DVDs. Journal of Environmental Radioactivity, 2015, 143, 76-79.	1.7	11
32	Optimization of etching conditions of CDs/DVDs used as detectors for 222Rn. Radiation Measurements, 2015, 83, 36-40.	1.4	3
33	Novel approaches in radon and thoron dosimetry. , 2014, , .		4
34	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
35	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
36	Traceability of CDs/DVDs used as retrospective 222Rn detectors to reference STAR laboratory. Radiation Measurements, 2013, 59, 165-171.	1.4	10

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37	Pilot experiments on retrospective thoron measurements by CDs/DVDs. Radiation Measurements, 2013, 50, 218-222.	1.4	8
38	Experimental study of the response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2013, 50, 141-144.	1.4	8
39	Measuring radioactive noble gases by absorption in polycarbonates and other organics: From radon indoors to nuclear safety. , 2013, , .		0
40	Influence of the water temperature on measurements of Rn- ²²² in water by liquid scintillation counting of polycarbonates. , 2012, , .		3
41	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
42	Retrospective measurements of thoron and radon by CDs/DVDs: a model approach. Radiation Protection Dosimetry, 2012, 149, 464-468.	0.8	12
43	Retrospective Rn-220 measurements by compact discs. , 2012, , .		4
44	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
45	Modeling response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2011, 46, 357-361.	1.4	5
46	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
47	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
48	Determination of the diffusion coefficient and solubility of radon in plastics. Radiation Protection Dosimetry, 2011, 145, 123-126.	0.8	16
49	Measurements of Rn-222 in water by liquid scintillation counting of polycarbonates. , 2011, , .		2
50	Measurement of Xe-133 in air by absorption in polycarbonates - detection limits and potential applications. , 2011, , .		0
51	Logistic of surveys of retrospective radon concentrations by home-stored CDs/DVDs. Radiation Protection Dosimetry, 2011, 145, 300-304.	0.8	8
52	Radon mapping by retrospective measurements – an approach based on CDs/DVDs. Journal of Environmental Radioactivity, 2010, 101, 821-825.	1.7	17
53	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
54	New sensitive technique for measurement of krypton-85 based on absorption in polycarbonates and liquid scintillation counting. , 2009, , .		5

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55	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
56	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
57	MODELING A ²²² Rn MEASUREMENT TECHNIQUE BASED ON ABSORPTION IN POLYCARBONATES AND TRACK-ETCH COUNTING. Health Physics, 2009, 97, 604-612.	0.5	30
58	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
59	An Algorithm for Automatic Counting of Electrochemically Etched Tracks in Compact Disks Used for Retrospective Measurements of Rn-222. , 2008, , .		0
60	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
61	Automatic counting of chemically etched tracks by means of a computer scanner. Radiation Measurements, 2005, 39, 557-559.	1.4	19
62	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
63	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
64	THE COMPACT DISK AS RADON DETECTORâ€™A LABORATORY STUDY OF THE METHOD. Health Physics, 2003, 84, 642-651.	0.5	26
65	Short solution of the radioactive decay chain equations. American Journal of Physics, 2002, 70, 444-445.	0.7	33
66	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
67	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
68	A radon ²²² traceability chain from primary standard to field detectors. Applied Radiation and Isotopes, 2000, 52, 427-434.	1.5	23
69	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
70	Excess lung cancer incidence and radon indoors in a Bulgarian town. Journal of Epidemiology and Community Health, 1999, 53, 448-448.	3.7	2
71	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
72	Track density assessment by obstructed total internal reflection of a laser beam. Radiation Measurements, 1997, 27, 27-30.	1.4	13

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73	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
74	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
75	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
76	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
77	Integrated Measurements of ^{212}Pb and ^{212}Bi in the Air by Rotating Filters. Health Physics, 1995, 68, 261-265.	0.5	3
78	Bronchial dysplasia induced by radiation in miners exposed to ^{222}Rn progeny.. Occupational and Environmental Medicine, 1995, 52, 82-85.	2.8	6
79	Radon and radon progeny outdoors in a valley of enhanced natural radioactivity. Atmospheric Environment, 1995, 29, 3433-3439.	4.1	24
80	Integrated Measurements of Short-lived ^{222}Rn Progeny by Rotating Filters. Health Physics, 1993, 64, 522-527.	0.5	3
81	Skin Dose for Workers in Uranium Milling. Radiation Protection Dosimetry, 1991, 38, 315-318.	0.8	0