

# Strahil B Georgiev

## List of Publications by Year in descending order

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51  
papers

373  
citations

758635

12  
h-index

887659

17  
g-index

51  
all docs

51  
docs citations

51  
times ranked

113  
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.	0.7	40
2	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.	0.7	24
3	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.	1.2	24
4	Measurement of <sup>222</sup> Rn and <sup>226</sup> Ra in water by absorption of radon in polycarbonates and etching alpha-tracks. Radiation Measurements, 2011, 46, 119-126.	0.7	20
5	Automatic counting of chemically etched tracks by means of a computer scanner. Radiation Measurements, 2005, 39, 557-559.	0.7	19
6	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.	0.7	18
7	Radon mapping by retrospective measurements – an approach based on CDs/DVDs. Journal of Environmental Radioactivity, 2010, 101, 821-825.	0.9	17
8	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.	0.7	17
9	Determination of the diffusion coefficient and solubility of radon in plastics. Radiation Protection Dosimetry, 2011, 145, 123-126.	0.4	16
10	Laboratory facility to create reference radon+thoron atmosphere under dynamic exposure conditions. Journal of Environmental Radioactivity, 2017, 166, 181-187.	0.9	16
11	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.	0.7	12
12	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.	0.7	12
13	Determination of <sup>222</sup> Rn absorption properties of polycarbonate foils by liquid scintillation counting. Application to <sup>222</sup> Rn measurements. Applied Radiation and Isotopes, 2016, 109, 270-275.	0.7	11
14	Traceability of CDs/DVDs used as retrospective <sup>222</sup> Rn detectors to reference STAR laboratory. Radiation Measurements, 2013, 59, 165-171.	0.7	10
15	Pilot Study of the Application of Plastic Scintillation Microspheres to Rn-222 Detection and Measurement. IEEE Transactions on Nuclear Science, 2016, 63, 1209-1217.	1.2	10
16	Effective Removal of Surface Recombination Centers in Silicon Nanowires Fabricated by Metal-Assisted Chemical Etching. ACS Applied Energy Materials, 2018, 1, 3693-3701.	2.5	9
17	Logistic of surveys of retrospective radon concentrations by home-stored CDs/DVDs. Radiation Protection Dosimetry, 2011, 145, 300-304.	0.4	8
18	Pilot experiments on retrospective thoron measurements by CDs/DVDs. Radiation Measurements, 2013, 50, 218-222.	0.7	8

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19	Experimental study of the response of radon track detectors with solid absorbers as radiators. Radiation Measurements, 2013, 50, 141-144.	0.7	8
20	Diffusion lengths and partition coefficients of $^{131m}\text{Xe}$ and $^{85}\text{Kr}$ in Makrofol N and Makrofol DE polycarbonates. Applied Radiation and Isotopes, 2018, 134, 269-274.	0.7	5
21	Partition Coefficients and Diffusion Lengths of $^{222}\text{Rn}$ in Some Polymers at Different Temperatures. International Journal of Environmental Research and Public Health, 2019, 16, 4523.	1.2	5
22	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.	0.7	5
23	Retrospective Rn-220 measurements by compact discs. , 2012, , .		4
24	Novel approaches in radon and thoron dosimetry. , 2014, , .		4
25	A high-sensitivity method for the measurement of $^{222}\text{Rn}$ based on liquid scintillation counting of polycarbonate powder. Radiation Protection Dosimetry, 2014, 160, 188-191.	0.4	4
26	Synthesis and characterisation of scintillating microspheres made of polystyrene/polycarbonate for $^{222}\text{Rn}$ measurements. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 637-649.	0.7	4
27	Unperturbed, high spatial resolution measurement of Radon-222 in soil-gas depth profile. Journal of Environmental Radioactivity, 2019, 196, 253-258.	0.9	4
28	Methods for the experimental study of $^{220}\text{Rn}$ homogeneity in calibration chambers. Applied Radiation and Isotopes, 2020, 165, 109259.	0.7	4
29	Influence of the water temperature on measurements of $^{222}\text{Rn}$ in water by liquid scintillation counting of polycarbonates. , 2012, , .		3
30	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.	0.7	3
31	Optimization of etching conditions of CDs/DVDs used as detectors for $^{222}\text{Rn}$ . Radiation Measurements, 2015, 83, 36-40.	0.7	3
32	Application of scintillation counting using polycarbonates to radon measurements. Radiation Measurements, 2016, 92, 32-38.	0.7	3
33	Design and Tests of a Detector for $^{222}\text{Rn}$ in Soil-gas Measurements based on $^{222}\text{Rn}$ Absorbing Scintillating Polymers. , 2017, , .		3
34	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.	1.2	3
35	Measurements of Rn-222 in water by liquid scintillation counting of polycarbonates. , 2011, , .		2
36	Measurements of $^{131}\text{I}$ , $^{134}\text{Cs}$ and $^{137}\text{Cs}$ in environmental samples in Bulgaria after the Fukushima accident. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	Development of a portable scintillation spectrometer with alpha-/beta- and neutron-/gamma-pulse-shape discrimination capabilities. , 2018, , .		2
38	Identifying radon priority areas and dwellings with radon exceedances in Bulgaria using stored CD/DVDs. Journal of Environmental Radioactivity, 2019, 196, 274-280.	0.9	2
39	Approaches for reduction of the temperature bias on radon detectors packed in anti-thoron polymer membranes. Applied Radiation and Isotopes, 2021, 177, 109915.	0.7	2
40	Study of $^{222}\text{Rn}$ Absorption and Detection Properties of EJ-212 and BC-400 Plastic Scintillators. IEEE Transactions on Nuclear Science, 2017, , 1-1.	1.2	2
41	Tests of CDs/DVDs as passive radon and thoron detectors for mines and caves. , 2015, , .		1
42	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.	0.7	1
43	Retrospective Rn-220 Measurements by Compact Discs. IEEE Transactions on Nuclear Science, 2016, 63, 333-340.	1.2	1
44	Design and Field Tests of Scintillation Spectrometer for Continuous Radon in Soil-gas Monitoring. , 2018, , .		1
45	Investigation of LPE grown dilute nitride InGaAs(Sb)N layers for photovoltaic applications. AIP Conference Proceedings, 2019, , .	0.3	1
46	An Algorithm for Automatic Counting of Electrochemically Etched Tracks in Compact Disks Used for Retrospective Measurements of Rn-222. , 2008, , .		0
47	Measurement of Xe-133 in air by absorption in polycarbonates - detection limits and potential applications. , 2011, , .		0
48	An approach to study the distribution of radon in natural materials containing radium. , 2013, , .		0
49	Common organics as samples to measure radon after nuclear emergency. , 2015, , .		0
50	Diffusion length of Rn-222 in home-stored CDs/DVDs – influence on Rn-222 and Rn-220 measurements. , 2016, , .		0
51	RADON-222 IN SOIL-GAS MEASUREMENTS BY COMPACT DISCS. COMPARISON TO DIFFUSION CHAMBER MEASUREMENTS. Radiation Protection Dosimetry, 2018, 181, 38-41.	0.4	0