

Arturo Vargas

List of Publications by Year in descending order

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62
papers

1,692
citations

471061

17
h-index

315357

38
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all docs

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docs citations

71
times ranked

1411
citing authors

#	ARTICLE	IF	CITATIONS
1	Intercomparison of Radon Flux Monitors at Low and at High Radium Content Areas under Field Conditions. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4213.	1.2	11
2	Low-Level Radon Activity Concentration – A MetroRADON International Intercomparison. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 5810.	1.2	4
3	Metrology for low-cost CO ₂ sensors applications: the case of a steady-state through-flow (SS-TF) chamber for CO ₂ fluxes observations. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2807-2818.	1.2	1
4	EURADOS STRATEGIC RESEARCH AGENDA 2020: VISION FOR THE DOSIMETRY OF IONISING RADIATION. <i>Radiation Protection Dosimetry</i> , 2021, 194, 42-56.	0.4	16
5	Comparison of airborne radiation detectors carried by rotary-wing unmanned aerial systems. <i>Radiation Measurements</i> , 2021, 145, 106595.	0.7	9
6	New metrology for radon at the environmental level. <i>Measurement Science and Technology</i> , 2021, 32, 124008.	1.4	19
7	Radon transport events associated with the impact of a NORM repository in the SW of Europe. <i>Environmental Pollution</i> , 2021, 289, 117963.	3.7	6
8	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3367-3405.	1.5	8
9	The Metrological Traceability, Performance and Precision of European Radon Calibration Facilities. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12150.	1.2	5
10	The European radiation dosimetry group – Review of recent scientific achievements. <i>Radiation Physics and Chemistry</i> , 2020, 168, 108514.	1.4	16
11	REFLECT – Research flight of EURADOS and CREAT: Intercomparison of various radiation dosimeters onboard aircraft. <i>Radiation Measurements</i> , 2020, 137, 106433.	0.7	16
12	Intercomparison study of atmospheric ²²² Rn and ²²² Rn progeny monitors. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2241-2255.	1.2	11
13	Applicability of the closed-circuit accumulation chamber technique to measure radon surface exhalation rate under laboratory conditions. <i>Radiation Measurements</i> , 2020, 133, 106284.	0.7	16
14	EURADOS education and training activities. <i>Journal of Radiological Protection</i> , 2019, 39, R37-R50.	0.6	3
15	Dose calculations in aircrafts after Fukushima nuclear power plant accident – Preliminary study for aviation operations. <i>Journal of Environmental Radioactivity</i> , 2019, 205-206, 24-33.	0.9	0
16	Radon behavior investigation based on cluster analysis and atmospheric modelling. <i>Atmospheric Environment</i> , 2019, 201, 50-61.	1.9	6
17	Comparison of methods for H* (10) calculation from measured LaBr 3 (Ce) detector spectra. <i>Applied Radiation and Isotopes</i> , 2018, 137, 241-249.	0.7	7
18	An Unmanned Aircraft System to Detect a Radiological Point Source Using RIMA Software Architecture. <i>Remote Sensing</i> , 2018, 10, 1712.	1.8	16

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19	Study of the daily and seasonal atmospheric CH ₄ mixing ratio variability in a rural Spanish region using ²²² Rn tracer. Atmospheric Chemistry and Physics, 2018, 18, 5847-5860.	1.9	24
20	The work programme of EURADOS on internal and external dosimetry. Annals of the ICRP, 2018, 47, 20-34.	3.0	17
21	INFLUENCE OF RADON PROGENY ON DOSE RATE MEASUREMENTS STUDIED AT PTB'S RADON REFERENCE CHAMBER. Radiation Protection Dosimetry, 2017, 177, 407-414.	0.4	4
22	Equivalence of computer codes for calculation of coincidence summing correction factors " Part II. Applied Radiation and Isotopes, 2016, 109, 482-486.	0.7	12
23	Analysis of ground-based ²²² Rn measurements over Spain: Filling the gap in southwestern Europe. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,021.	1.2	10
24	Dry deposition velocity of ¹³⁷ Cs and ¹³⁴ Cs in Spain after the Fukushima Dai-ichi Nuclear Power Plant accident. Applied Radiation and Isotopes, 2016, 109, 441-443.	0.7	5
25	Determination of LaBr ₃ (Ce) internal background using a HPGe detector and Monte Carlo simulations. Applied Radiation and Isotopes, 2016, 109, 512-517.	0.7	14
26	Effectiveness Analysis of Filters Used with Radon Detectors under Extreme Environmental Conditions for Long-term Exposures. Physics Procedia, 2015, 80, 113-116.	1.2	3
27	The role of mesoscale meteorology in modulating the ²²² Rn concentrations in Huelva (Spain) " impact of phosphogypsum piles. Journal of Environmental Radioactivity, 2015, 145, 1-9.	0.9	16
28	Analysis of the vertical radon structure at the Spanish "El Arenosillo" tower station. Journal of Environmental Radioactivity, 2015, 139, 1-17.	0.9	32
29	Studying radon exhalation rates variability from phosphogypsum piles in the SW of Spain. Journal of Hazardous Materials, 2014, 280, 464-471.	6.5	20
30	Ambient dose estimation H*(10) from LaBr ₃ (Ce) spectra. Radiation Protection Dosimetry, 2014, 160, 264-268.	0.4	15
31	Coincidence summing corrections for volume samples using the PENELOPE/penEasy Monte Carlo code. Applied Radiation and Isotopes, 2014, 87, 376-379.	0.7	6
32	Validation of aerosol low-level activities by comparison with a deep underground laboratory. Applied Radiation and Isotopes, 2014, 87, 66-69.	0.7	2
33	First estimation of CH ₄ fluxes using the ²²² Rn Tracer Method over the central Iberian Peninsula. WIT Transactions on Ecology and the Environment, 2014, , .	0.0	6
34	Xenon-133 and caesium-137 releases into the atmosphere from the Fukushima Dai-ichi nuclear power plant: determination of the source term, atmospheric dispersion, and deposition. Atmospheric Chemistry and Physics, 2012, 12, 2313-2343.	1.9	510
35	Influence of the Fukushima Dai-ichi nuclear accident on Spanish environmental radioactivity levels. Journal of Environmental Radioactivity, 2012, 114, 138-145.	0.9	38
36	Atmospheric ²²² Rn concentration and source term at El Arenosillo 100m meteorological tower in southwest Spain. Radiation Measurements, 2012, 47, 149-162.	0.7	40

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37	Tracking of Airborne Radionuclides from the Damaged Fukushima Dai-Ichi Nuclear Reactors by European Networks. Environmental Science & Technology, 2011, 45, 7670-7677.	4.6	333
38	Inter-comparison of different direct and indirect methods to determine radon flux from soil. Radiation Measurements, 2011, 46, 112-118.	0.7	32
39	Analysis of radon origin by backward atmospheric transport modelling. Atmospheric Environment, 2010, 44, 494-502.	1.9	23
40	Activity size distributions for long-lived radon decay products in aerosols collected in Barcelona (Spain). Applied Radiation and Isotopes, 2009, 67, 872-875.	0.7	15
41	Analysis of outdoor radon progeny concentration measured at the Spanish radioactive aerosol automatic monitoring network. Applied Radiation and Isotopes, 2009, 67, 833-838.	0.7	21
42	Short- versus long-term radon detectors: a comparative study in Galicia, NW Spain. Journal of Environmental Radioactivity, 2008, 99, 1121-1126.	0.9	14
43	Dose assessment at a phosphate industry landfill using solid state detectors. Radiation Measurements, 2008, 43, 664-667.	0.7	0
44	Influence of natural radioactive aerosols on artificial radioactivity detection in the Spanish surveillance networks. Applied Radiation and Isotopes, 2008, 66, 1627-1631.	0.7	7
45	Application of Back Trajectories Using Flextra to Identify the Origin of ¹³⁷ Cs Measured in the City of Barcelona. NATO Security Through Science Series C: Environmental Security, 2008, , 661-662.	0.1	0
46	Influence of environmental changes on integrating radon detectors: results of an intercomparison exercise. Radiation Protection Dosimetry, 2007, 123, 529-536.	0.4	42
47	Development and operational performance of a single calibration chamber for radon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 1135-1140.	0.7	8
48	Radon activity concentration "a Euromet and BIPM supplementary comparison. Applied Radiation and Isotopes, 2006, 64, 1102-1107.	0.7	17
49	Influence of environmental changes on continuous radon monitors. results of a Spanish intercomparison exercise. Radiation Protection Dosimetry, 2006, 121, 303-309.	0.4	22
50	Analysis of the natural radon progeny contribution to radioactive aerosol monitoring in the automatic Spanish surveillance network. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	1
51	Intercomparison exercise of calibration facilities for radon gas activity concentration. Radioactivity in the Environment, 2005, , 306-313.	0.2	1
52	Comparison of calibration facilities for radon activity concentration: Euromet Project 657. Metrologia, 2005, 42, 06003-06003.	0.6	3
53	Determination of ²¹⁸ Po nanometer size distribution in a controlled environment by two new systems. Radioactivity in the Environment, 2005, 7, 361-370.	0.2	3
54	Traceability of radon-222 activity concentration in the radon chamber at the technical university of Catalonia (Spain). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 526, 501-509.	0.7	19

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55	Uncertainty Analysis of the Weighted Equivalent Lung Dose per Unit Exposure to Radon Progeny in the Home. <i>Radiation Protection Dosimetry</i> , 2002, 102, 229-248.	0.4	57
56	The influence of non-uniform particle deposition on the ^{218}Po diffusion coefficient measured with the "two-filter" method. <i>Journal of Aerosol Science</i> , 2001, 32, 1389-1395.	1.8	1
57	Dose Conversion Factor for Radon Concentration in Indoor Environments Using A New Equation for the F-fP Correlation. <i>Health Physics</i> , 2000, 78, 80-85.	0.3	12
58	Intercomparison of Approximation Algorithms for the Determination of the Size Distribution of the "Unattached" Fraction of Radon Progeny. <i>Aerosol Science and Technology</i> , 2000, 33, 261-273.	1.5	3
59	Characteristics and temporal variation of airborne radon decay progeny in the indoor environment in Catalonia (Spain). <i>Environment International</i> , 1996, 22, 149-159.	4.8	12
60	Study of the variation of ^{222}Rn indoor concentration with several passive detectors and an active detection system. <i>Environment International</i> , 1996, 22, 601-606.	4.8	1
61	Lagrangian Models for Nuclear Studies: Examples and Applications. <i>Geophysical Monograph Series</i> , 0, , 329-348.	0.1	4
62	Radon metrology for use in climate change observation and radiation protection at the environmental level. <i>Advances in Geosciences</i> , 0, 57, 37-47.	12.0	8