S Hurtado

List of Publications by Year in descending order

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52 papers	973 citations	430874 18 h-index	477307 29 g-index
53 all docs	53 docs citations	53 times ranked	845 citing authors

#	Article	IF	Citations
1	GEANT4 code for simulation of a germanium gamma-ray detector and its application to efficiency calibration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 764-774.	1.6	129
2	An intercomparison of Monte Carlo codes used in gamma-ray spectrometry. Applied Radiation and Isotopes, 2008, 66, 764-768.	1.5	59
3	Contamination and restoration of an estuary affected by phosphogypsum releases. Science of the Total Environment, 2009, 408, 69-77.	8.0	52
4	Monte Carlo simulation of the response of a germanium detector for low-level spectrometry measurements using GEANT4. Applied Radiation and Isotopes, 2004, 61, 139-143.	1.5	49
5	Radioactivity contents in dicalcium phosphate and the potential radiological risk to human populations. Journal of Hazardous Materials, 2009, 170, 814-823.	12.4	42
6	Intercomparison of methods for coincidence summing corrections in gamma-ray spectrometry. Applied Radiation and Isotopes, 2010, 68, 1407-1412.	1.5	40
7	Intercomparison of methods for coincidence summing corrections in gamma-ray spectrometryâ€”part II (volume sources). Applied Radiation and Isotopes, 2012, 70, 2112-2118.	1.5	38
8	Uranium pollution in an estuary affected by pyrite acid mine drainage and releases of naturally occurring radioactive materials. Marine Pollution Bulletin, 2011, 62, 1521-1529.	5.0	35
9	Coincidence Summing Corrections in Gamma-Ray Spectrometry Using GEANT4 Code. IEEE Transactions on Nuclear Science, 2009, 56, 1531-1536.	2.0	30
10	Calibration and measurement of using two independent techniques. Radiation Measurements, 2007, 42, 1552-1560.	1.4	27
11	Comparison of solvent extraction and extraction chromatography resin techniques for uranium isotopic characterization in high-level radioactive waste and barrier materials. Applied Radiation and Isotopes, 2018, 137, 177-183.	1.5	26
12	Environmental Impact of Phosphogypsum-Derived Building Materials. International Journal of Environmental Research and Public Health, 2020, 17, 4248.	2.6	25
13	Radionuclide activities and metal concentrations in sediments of the Sebou Estuary, NW Morocco, following a flooding event. Environmental Monitoring and Assessment, 2013, 185, 5019-5029.	2.7	23
14	determination in lead shields for low-level Î³-spectrometry applying two independent radiometric techniques. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 497, 381-388.	1.6	22
15	Optimized background reduction in low-level gamma-ray spectrometry at a surface laboratory. Applied Radiation and Isotopes, 2006, 64, 1006-1012.	1.5	21
16	Radiological impact of cement, concrete and admixtures in Spain. Radiation Measurements, 2011, 46, 734-735.	1.4	21
17	Application of gamma-ray spectrometry in a NORM industry for its radiometrical characterization. Radiation Physics and Chemistry, 2015, 116, 78-81.	2.8	20
18	An intercomparison of Monte Carlo codes used for in-situ gamma-ray spectrometry. Radiation Measurements, 2010, 45, 923-927.	1.4	18

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19	Equivalence of computer codes for calculation of coincidence summing correction factors. Applied Radiation and Isotopes, 2014, 87, 336-341.	1.5	18
20	Rapid determination of 210 Pb and 210 Po in water and application to marine samples. Talanta, 2016, 160, 28-35.	5.5	18
21	Isolation of 236U and 239,240Pu from seawater samples and its determination by Accelerator Mass Spectrometry. Talanta, 2018, 178, 202-210.	5.5	18
22	Determination of trace element concentrations and stable lead, uranium and thorium isotope ratios by quadrupole-ICP-MS in NORM and NORM-polluted sample leachates. Journal of Hazardous Materials, 2012, 205-206, 198-207.	12.4	17
23	A sequential determination of 90Sr and 210Po in food samples. Food Chemistry, 2017, 229, 159-164.	8.2	15
24	Numerical analysis of alpha spectra using two different codes. Applied Radiation and Isotopes, 2008, 66, 808-812.	1.5	14
25	Radioanalytical determination of actinoids in refractory matrices by alkali fusion. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 557-563.	1.5	14
26	Natural and artificial radionuclides in a marine core. First results of 236 U in North Atlantic Ocean sediments. Journal of Environmental Radioactivity, 2018, 186, 152-160.	1.7	14
27	Quantification and comparison of the reaction properties of FEBEX and MX-80 clays with saponite: Europium immobilisers under subcritical conditions. Applied Clay Science, 2014, 101, 10-15.	5.2	13
28	A self-sufficient and general method for self-absorption correction in gamma-ray spectrometry using GEANT4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 234-237.	1.6	12
29	Equivalence of computer codes for calculation of coincidence summing correction factors â€“ Part II. Applied Radiation and Isotopes, 2016, 109, 482-486.	1.5	12
30	A benchmark for Monte Carlo simulation in gamma-ray spectrometry. Applied Radiation and Isotopes, 2019, 154, 108850.	1.5	11
31	Baseline activity concentration of 210Po and 210Pb and dose assessment in bivalve molluscs at the Andalusian coast. Marine Pollution Bulletin, 2018, 133, 711-716.	5.0	10
32	Levels of radionuclide concentrations in benthic invertebrate species from the Balearic Islands, Western Mediterranean, during 2012â€“2018. Marine Pollution Bulletin, 2019, 149, 110519.	5.0	10
33	Geographical origin of bivalve molluscs in coastal areas using natural radioactivity fingerprinting and multivariate statistical analyses: Andalusian coast as case of study. Journal of Hazardous Materials, 2019, 367, 706-714.	12.4	10
34	The effects of combining virtual laboratory and advanced technology research laboratory on university studentsâ€™ conceptual understanding of electron microscopy. Interactive Learning Environments, 2023, 31, 1126-1141.	6.4	10
35	A revision of energy and resolution calibration method of Ge detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 564, 295-299.	1.6	9
36	²³⁹Pu, ²⁴⁰Pu, and ²⁴¹Am Determination in Hot Particles by Low Level Gamma-Spectrometry. Environmental Science & Technology, 2010, 44, 4247-4252.	10.0	9

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37	Interaction of Eu-isotopes with saponite as a component of the engineered barrier. Applied Clay Science, 2011, 52, 253-257.	5.2	9
38	Consistency test of coincidence-summing calculation methods for extended sources. Applied Radiation and Isotopes, 2020, 155, 108921.	1.5	9
39	Uranium immobilization by FEBEX bentonite and steel barriers in hydrothermal conditions. Chemical Engineering Journal, 2015, 269, 279-287.	12.7	8
40	Competitive effect of the metallic canister and clay barrier on the sorption of Eu3+ under subcritical conditions. Applied Geochemistry, 2014, 40, 25-31.	3.0	7
41	Comparison and validation of methods for the determination of 90Sr by Cerenkov counting in biological and sediment samples, including green chemistry metrics. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 109-122.	1.5	6
42	Simulation of the response of a PIPS detector using GEANT4 code. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 875, 21-26.	1.6	5
43	A fitting algorithm based on simulated annealing techniques for efficiency calibration of HPGe detectors using different mathematical functions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 594, 362-367.	1.6	4
44	Effect of clays and metal containers in retaining Sm3+ and ZrO2+ and the process of reversibility. American Mineralogist, 2014, 99, 696-703.	1.9	4
45	Determination of ²¹⁰Po in low-level wild bilberries reference material for quality control assurance in environmental analysis using extraction chromatography and Î±-particle spectroscopy. Radiochimica Acta, 2020, 108, 99-103.	1.2	3
46	Characterization and radioactive evaluation of the concrete from a radiotherapy bunker. Structural Concrete, 2022, 23, 3102-3113.	3.1	3
47	Time Evolution of Activity Concentration of Natural Emitters in a Scenario Affected By Previous Phosphogypsum Contamination. AIP Conference Proceedings, 2008, , .	0.4	2
48	GEANT4 simulation of the response of a liquid scintillation counter. Journal of Instrumentation, 2017, 12, P09021-P09021.	1.2	1
49	Correlation of phytoplankton satellite observations and radiological doses in molluscs. Marine Pollution Bulletin, 2021, 172, 112911.	5.0	1
50	Measurement of [sup 210]Pb and its Application to Evaluate Contamination in an Area Affected by NORM Releases. AIP Conference Proceedings, 2008, , .	0.4	0
51	Geochronology of recent sediments from the Cariaco Trench (Venezuela) by Alpha Spectrometry of [sup 210]Pb ([sup 210]Po).. , 2010, , .		0
52	Gender equality in five- to six-year-old preschoolersâ€™ early competences in science do not protect schoolgirls from gender stereotypes. European Early Childhood Education Research Journal, 2021, 29, 479-500.	1.9	0