Manuel GarcÃ-a LeÃ³n

List of Publications by Year
in descending order

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126 papers	2,545 citations	186265 28 h-index	276875 41 g-index
126 all docs	126 docs citations	126 times ranked	1413 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	The distribution of U, Th and 226Ra derived from the phosphate fertilizer industries on an estuarine system in Southwest Spain. Journal of Environmental Radioactivity, 1994, 22, 155-177.	1.7	82
3	Determination of 99Tc in environmental samples. Nuclear Instruments & Methods in Physics Research, 1984, 223, 204-207.	0.9	75
4	Uranium-238 and thorium-232 series concentrations in soil, radon-222 indoor and drinking water concentrations and dose assessment in the city of Aldama, Chihuahua, Mexico. Journal of Environmental Radioactivity, 2004, 77, 205-219.	1.7	68
5	On the fractionation of natural radioactivity in the production of phosphoric acid by the wet acid method. Journal of Radioanalytical and Nuclear Chemistry, 1996, 214, 77-88.	1.5	61
6	Characterization of U/Pu particles originating from the nuclear weapon accidents at Palomares, Spain, 1966 and Thule, Greenland, 1968. Science of the Total Environment, 2007, 376, 294-305.	8.0	60
7	Enhancement of natural radioactivity in soils and salt-marshes surrounding a non-nuclear industrial complex. Science of the Total Environment, 1995, 173-174, 125-136.	8.0	56
8	Plutonium measurements on the 1MV AMS system at the Centro Nacional de Aceleradores (CNA). Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4948-4954.	1.4	53
9	Status of the compact 1MV AMS facility at the Centro Nacional de Aceleradores (Spain). Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2217-2220.	1.4	52
10	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
11	Modelling the dispersion of non-conservative radionuclides in tidal watersâ€"Part 1: Conceptual and mathematical model. Journal of Environmental Radioactivity, 1996, 31, 127-141.	1.7	48
12	Radioactive impact of phosphate ore processing in a wet marshland in southwestern Spain. Journal of Environmental Radioactivity, 1997, 34, 45-57.	1.7	48
13	Dating of marine sediments by an incomplete mixing model. Journal of Environmental Radioactivity, 1992, 15, 135-151.	1.7	45
14	Transfer of natural radionuclides from soils to plants in a marsh enhanced by the operation of non-nuclear industries. Journal of Environmental Radioactivity, 1997, 35, 149-171.	1.7	44
15	Isolation of Pu-isotopes from environmental samples using ion chromatography for accelerator mass spectrometry and alpha spectrometry. Analytica Chimica Acta, 2008, 606, 239-245.	5.4	41
16	Relative influence of 129I sources in a sediment core from the Kattegat area. Science of the Total Environment, 2004, 323, 195-210.	8.0	40
17	U and Th speciation in river sediments. Science of the Total Environment, 1995, 173-174, 203-209.	8.0	38
18	Natural radioactivity enhancement by human activities in rivers of the southwest of Spain. Journal of Radioanalytical and Nuclear Chemistry, 1991, 155, 97-106.	1.5	35

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19	Determination of 226Ra and 224Ra in drinking waters by liquid scintillation counting. Applied Radiation and Isotopes, 1997, 48, 535-540.	1.5	34
20	99Tc/137Cs activity ratios in rainwater samples collected in the South of Spain. Journal of Environmental Radioactivity, 1993, 20, 49-61.	1.7	32
21	Modelling the suspended matter distribution in an estuarine system. Application to the Odiel river in southwest Spain. Ecological Modelling, 1996, 87, 169-179.	2.5	31
22	Study of colour quenching effects in the calibration of liquid scintillation counters: the case of 210Pb. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 496, 413-424.	1.6	31
23	Ra-isotopes around a phosphate fertilizer complex in an estuarine system at the Southwest of Spain. Journal of Radioanalytical and Nuclear Chemistry, 1993, 172, 71-79.	1.5	30
24	Radioactive impact of some phosphogypsum piles in soils and salt marshes evaluated by Î³-ray spectrometry. Applied Radiation and Isotopes, 1996, 47, 1069-1075.	1.5	30
25	Coincidence Summing Corrections in Gamma-Ray Spectrometry Using GEANT4 Code. IEEE Transactions on Nuclear Science, 2009, 56, 1531-1536.	2.0	30
26	Modelling the dispersion of non-conservative radionuclides in tidal watersâ€”Part 2: Application to 226Ra dispersion in an estuarine system. Journal of Environmental Radioactivity, 1996, 31, 253-272.	1.7	29
27	Presence of plutonium contamination in soils from Palomares (Spain). Environmental Pollution, 2006, 142, 487-492.	7.5	29
28	Measurement of plutonium isotopes, 239Pu and 240Pu, in air-filter samples from Seville (2001â€“2002). Atmospheric Environment, 2010, 44, 1851-1858.	4.1	29
29	99Tc detection in water samples by ICP-MS. Radiochimica Acta, 2004, 92, .	1.2	28
30	Status report of the 1 MV AMS facility at the Centro Nacional de Aceleradores. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 13-19.	1.4	27
31	An easy method for the determination of Ra isotopes and actinide alpha emitters from the same water sample. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1986, 37, 383-389.	0.5	26
32	Determination of U isotopic ratios in environmental samples by ICP-MS. Journal of Analytical Atomic Spectrometry, 2000, 15, 889-892.	3.0	26
33	Determination of the 240Pu/239Pu atomic ratio in soils from Palomares (Spain) by low-energy accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 768-771.	1.4	26
34	Measurements of U- and Ra-isotopes in rainwater samples. Journal of Radioanalytical and Nuclear Chemistry, 1991, 152, 37-46.	1.5	25
35	A 2D 4-phases marine dispersion model for non-conservative radionuclides. Part 1: Conceptual and computational model. Journal of Environmental Radioactivity, 1993, 20, 71-88.	1.7	25
36	Determination of in atmospheric samples by accelerator mass spectrometry. Applied Radiation and Isotopes, 1999, 51, 315-322.	1.5	24

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37	An easy method to determine 210Po and 210Pb by alpha spectrometry in marine environmental samples. Applied Radiation and Isotopes, 2002, 56, 633-636.	1.5	24
38	Determination of 129I/127I in aerosol samples in Seville (Spain). Journal of Environmental Radioactivity, 2005, 84, 103-109.	1.7	24
39	Determination and lebels of99Tc in environmental and biological samples. Journal of Radioanalytical and Nuclear Chemistry, 1990, 138, 171-179.	1.5	23
40	A modelling study of 226Ra dispersion in an estuarine system in south-west Spain. Journal of Environmental Radioactivity, 1994, 24, 159-179.	1.7	22
41	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
42	Anthropogenic emissions of210Po,210Pb and226Ra in an estuarine environment. Journal of Radioanalytical and Nuclear Chemistry, 1996, 207, 357-367.	1.5	21
43	On self-attenuation corrections in gamma-ray spectrometry. Applied Radiation and Isotopes, 1997, 48, 1125-1126.	1.5	21
44	Wet and dry deposition of 129I in Seville (Spain) measured by accelerator mass spectrometry. Journal of Environmental Radioactivity, 2001, 55, 269-282.	1.7	21
45	Levels and temporal variability of 129I concentrations and 129I/127I isotopic ratios in atmospheric samples from southern Spain. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 495-500.	1.4	21
46	Optimized background reduction in low-level gamma-ray spectrometry at a surface laboratory. Applied Radiation and Isotopes, 2006, 64, 1006-1012.	1.5	21
47	99Tc in surface air samples during the years 1965â€“1967. The International Journal of Applied Radiation and Isotopes, 1984, 35, 961-963.	0.7	20
48	A 2D 4-phases marine dispersion model for non-conservative radionuclides. Part 2: Two applications. Journal of Environmental Radioactivity, 1993, 20, 89-115.	1.7	20
49	The presence of some artificial and natural radionuclides in a Eucalyptus forest in the south of Spain. Journal of Environmental Radioactivity, 2001, 56, 309-325.	1.7	20
50	Advances on the determination of atmospheric 129I by accelerator mass spectrometry (AMS). Nuclear Instruments & Methods in Physics Research B, 2006, 249, 772-775.	1.4	20
51	U and Th distribution in solution and suspended matter from rivers affected by the phosphate rock processing in southwestern Spain. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 339, 287-293.	1.6	19
52	The presence of man-made radionuclides in the marine environment in the south of Spain. Journal of Environmental Radioactivity, 1995, 28, 171-189.	1.7	18
53	Isolation of 236U and 239,240Pu from seawater samples and its determination by Accelerator Mass Spectrometry. Talanta, 2018, 178, 202-210.	5.5	18
54	Natural radioactivity in the Guadalquivir river at the South of Spain. Journal of Radioanalytical and Nuclear Chemistry, 1994, 178, 337-350.	1.5	17

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55	A method for the determination of counting efficiencies in Î³-spectrometric measurements with HPGe detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 382, 495-502.	1.6	17
56	Accelerator mass spectrometry as a powerful tool for the determination of in rainwater. Applied Radiation and Isotopes, 2000, 53, 81-85.	1.5	17
57	Accelerator-based research activities at â€œCentro Nacional de Aceleradoresâ€, Seville (Spain). Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2105-2109.	1.4	17
58	Radiocarbon Measurement Program at the Centro Nacional de Aceleradores (CNA), Spain. Radiocarbon, 2009, 51, 883-889.	1.8	17
59	Recent developments of the 1 MV AMS facility at the Centro Nacional de Aceleradores. Nuclear Instruments & Methods in Physics Research B, 2016, 375, 17-25.	1.4	17
60	Radium isotopes in suspended matter in an estuarine system in the southwest of Spain. Journal of Radioanalytical and Nuclear Chemistry, 1994, 183, 395-407.	1.5	16
61	U- and Th-isotopes in an estuarine system in southwest Spain: Tidal and seasonal variations. Applied Radiation and Isotopes, 1996, 47, 1121-1125.	1.5	16
62	Comparison of a radiation counting method and ICP-MS for the determination of99Tc in environmental samples. Journal of Radioanalytical and Nuclear Chemistry, 1998, 234, 147-151.	1.5	16
63	On the presence of enriched amounts of 235U in hot particles from the terrestrial area affected by the Palomares accident (Spain). Environmental Pollution, 2007, 145, 391-394.	7.5	16
64	Characterisation of hot particles remaining in soils from Palomares (Spain) using a nuclear microprobe. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 343-348.	1.4	16
65	Characterization of 99Tc by the shape of its plateau with a gas-flow proportional counter. The International Journal of Applied Radiation and Isotopes, 1984, 35, 195-200.	0.7	15
66	The integrated atmospheric flux effect in a radiogeochronological model. Journal of Environmental Radioactivity, 1994, 24, 65-79.	1.7	15
67	Levels and behavior of natural radioactivity in the vicinity of phosphate fertilizer plants. Journal of Radioanalytical and Nuclear Chemistry, 1995, 197, 173-184.	1.5	15
68	Transfer of natural radionuclides from soils to plants in a wet marshland. Applied Radiation and Isotopes, 1996, 47, 1103-1108.	1.5	15
69	99Tc atom counting by quadrupole ICP-MS. Optimisation of the instrumental response. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 484, 660-667.	1.6	15
70	Characterisation of the plutonium isotopic composition of a sediment core from Palomares, Spain, by low-energy AMS and alpha-spectrometry. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1273-1276.	1.4	15
71	Factor of merit and minimum detectable activity for 90Sr determinations by gas-flow proportional counting or Cherenkov counting. Applied Radiation and Isotopes, 2001, 55, 849-851.	1.5	14
72	Measurement of 239Pu in urine samples at ultra-trace levels using a 1MV compact AMS system. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1331-1333.	1.4	14

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73	A marine dispersion model for radionuckides and its calibration from non-radiological information. Journal of Environmental Radioactivity, 1992, 16, 127-146.	1.7	13
74	Identification and effects of anthropogenic emissions of U and Th on the composition of sediments in a river/estuarine system in Southern Spain. Journal of Environmental Radioactivity, 1994, 23, 231-248.	1.7	13
75	Modelling the distribution of suspended matter and the sedimentation process in a marine environment. Ecological Modelling, 1994, 71, 197-219.	2.5	13
76	The use of 99mTc as a tracer in the determination of 99Tc by ICP-mass spectrometry. Journal of Analytical Atomic Spectrometry, 2000, 15, 1369-1373.	3.0	13
77	A mathematical approach for modelling radionuclide dispersion in the marine environment. Journal of Environmental Radioactivity, 1991, 13, 39-54.	1.7	12
78	129I record in a sediment core from Tinto River (Spain). Nuclear Instruments & Methods in Physics Research B, 2007, 259, 503-507.	1.4	12
79	Analysis of 129I in lichens by accelerator mass spectrometry through a microwave-based sample preparation method. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1171-1174.	1.4	12
80	Influence of releases of 129I and 137Cs from European reprocessing facilities in Fucus vesiculosus and seawater from the Kattegat and Skagerrak areas. Chemosphere, 2014, 108, 76-84.	8.2	12
81	129I/127I ratios and 129I concentrations in a recent sea sediment core and in rainwater from Sevilla (Spain) by AMS. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 574-578.	1.4	11
82	Analysis of 36Cl in atmospheric samples from Seville (Spain) by AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 501-506.	1.4	11
83	On the measurement of 10Be on the 1MV compact AMS system at the Centro Nacional de Aceleradores (Spain). Nuclear Instruments & Methods in Physics Research B, 2010, 268, 733-735.	1.4	11
84	Anthropogenic 129I concentration and 129I/127I ratio in rainwater from Seville (Spain) in the period 2005â€“2008 as affected by airborne releases from Sellafield and La Hague facilities. Atmospheric Environment, 2012, 56, 26-32.	4.1	11
85	AMS measurements of 129I in seawater around Iceland and the Irminger Sea. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 547-551.	1.4	11
86	14C determination in different bio-based products. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 354-357.	1.4	11
87	Estimating the impact from Fukushima in Southern Spain by 131I and Accelerator Mass Spectrometry detection of 129I. Journal of Environmental Radioactivity, 2017, 166, 36-44.	1.7	11
88	90Sr in an alkaline pulp mill located in the South of Spain. Journal of Environmental Radioactivity, 1999, 46, 327-344.	1.7	10
89	Accelerator Mass Spectrometry (AMS) in Radioecology. Journal of Environmental Radioactivity, 2018, 186, 116-123.	1.7	10
90	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

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91	Radiocarbon dating of medieval manuscripts from the University of Seville. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1038-1040.	1.4	9
92	A highly sensitive method for the reassessment and quantification of 239Pu in urine samples based on a 1 MV accelerator mass spectrometry system. Journal of Analytical Atomic Spectrometry, 2010, 25, 1410.	3.0	9
93	Electrodeposition of Ra from a HCl + CH3-COONH4 aqueous solution. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1986, 37, 441-442.	0.5	8
94	Uranium and Radium Isotopes in the Guadalquivir River, Southern Spain. Radiation Protection Dosimetry, 1992, 45, 249-252.	0.8	8
95	Low-level radioactivity studies in the marine environment of the South of Spain. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 312, 231-235.	1.6	8
96	210Pb distribution in riverwaters and sediments near phosphate fertilizer factories. Applied Radiation and Isotopes, 1996, 47, 599-602.	1.5	8
97	Meteoric 10Be in aerosol filters in the city of Seville. Journal of Environmental Radioactivity, 2019, 196, 15-21.	1.7	8
98	Efficiency calibration of a liquid scintillation counter for 90Y cherenkov counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 406, 267-275.	1.6	7
99	Overcoming ICP-QMS instrumental limitations for 99Tc determination in environmental solid samples using radiochemistry. Applied Radiation and Isotopes, 2006, 64, 502-507.	1.5	7
100	Comparison of methods and application of alpha spectrometry and mass spectrometry techniques for 239Pu determination in biological samples. Journal of Analytical Atomic Spectrometry, 2011, 26, 1509.	3.0	7
101	On the determination of 99Tc in environmental waters. The International Journal of Applied Radiation and Isotopes, 1984, 35, 957-960.	0.7	6
102	Pre- and post-Chernobyl accident levels of 129I and 137Cs in the Southern Baltic Sea by brown seaweed Fucus vesiculosus. Journal of Environmental Radioactivity, 2013, 115, 134-142.	1.7	6
103	Measurements of 99Tc in biological samples: Problems with the evaluation of radiochemical yield. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1986, 37, 438-440.	0.5	5
104	Analysis of99Tc atmospheric samples. Journal of Radioanalytical and Nuclear Chemistry, 1987, 115, 377-388.	1.5	5
105	Artificial long-lived radionuclides (137Cs, 90Sr) in an alkaline pulp mill located in the South of Spain. Applied Radiation and Isotopes, 1996, 47, 1097-1102.	1.5	5
106	Some comments on the presence of Chernobyl derived 137Cs and 99Tc in the stratosphere. Applied Radiation and Isotopes, 1997, 48, 653-656.	1.5	5
107	Characterization of terrestrial hot particles from the Palomares accident using destructive and non-destructive analytical techniques. Radioprotection, 2009, 44, 345-350.	1.0	5
108	Determination of denudation rates by the measurement of meteoric 10Be in Guadiana river sediment samples (Spain) by low-energy AMS. Journal of Environmental Radioactivity, 2018, 189, 227-235.	1.7	5

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109	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
110	Presence of plutonium isotopes, 239Pu and 240Pu, in soils from Chile. Nuclear Instruments & Methods in Physics Research B, 2011, , .	1.4	4
111	Levels, distribution and bioavailability of transuranic elements released in the Palomares accident (Spain). Applied Radiation and Isotopes, 2008, 66, 1679-1682.	1.5	3
112	41 Ca measurements on the 1â€MV AMS facility at the Centro Nacional de Aceleradores (CNA, Spain). Nuclear Instruments & Methods in Physics Research B, 2017, 413, 13-18.	1.4	3
113	Radiological impact of fallout 99Tc in Seville, 1965â€“1967. The International Journal of Applied Radiation and Isotopes, 1985, 36, 129-131.	0.7	2
114	Radioactive discharges from an alkaline pulp mill located in the South of Spain. Journal of Environmental Radioactivity, 2001, 52, 91-97.	1.7	2
115	Reassessment of 239Pu on planchets from human urine samples at ultra-trace levels using Aridus-ICPSFMS and AMS. Radiation Protection Dosimetry, 2012, 152, 296-303.	0.8	2
116	Long-lived radionuclides in residues from operation and decommissioning of nuclear power plants. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 647-651.	1.4	2
117	Factors related to 41K interference on 41Ca AMS measurements. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 193-197.	1.4	2
118	226Ra determination by electrodeposition. Science of the Total Environment, 1988, 69, 225-238.	8.0	1
119	Enhanced U and Th concentrations in soils from a wet Marshland washed by contaminated riverwaters. Applied Radiation and Isotopes, 1996, 47, 1081-1087.	1.5	1
120	Natural radionuclides in an eucalyptus forest located in the south of Spain. Radiation Physics and Chemistry, 2001, 61, 707-708.	2.8	1
121	Modelling radionuclide distributions in marine and lacustrine sediments. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1993, 25, 262-265.	0.1	0
122	210Pb enhancement in rivers affected by the phosphate rock processing in southwestern Spain. Studies in Environmental Science, 1997, 68, 291-297.	0.0	0
123	Modelling 226Ra dispersion in an estuarine system at the southwest of Spain. Studies in Environmental Science, 1997, , 461-470.	0.0	0
124	Behaviour and levels of natural radioactivity in sediments from the Odiel River. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1998, 26, 893-895.	0.1	0
125	On the Applications of IBA Techniques to Biological Samples Analysis: PIXE and RBS. AIP Conference Proceedings, 2008, , .	0.4	0
126	99Tc in Environmental Waters. , 1986, , 169-177.		0