

# Alejandro Martin Sanchez

## List of Publications by Year in descending order

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105  
papers

1,218  
citations

361413

20  
h-index

526287

27  
g-index

106  
all docs

106  
docs citations

106  
times ranked

719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical techniques applied to the study of mortars and coatings from the Tartessic archaeological site of El Turuñuelo (Spain). <i>Radiation Physics and Chemistry</i> , 2020, 167, 108341.	2.8	3
2	Techniques and applications for the study and preservation of the cultural heritage of Extremadura (Spain). <i>Rendiconti Lincei</i> , 2020, 31, 761-772.	2.2	1
3	Spectroscopic analysis of polychromic sculptures belonging to the cultural heritage of Extremadura (Spain). <i>X-Ray Spectrometry</i> , 2019, 48, 490-498.	1.4	2
4	Study of the $^{243}\text{Am}$ decay. <i>Applied Radiation and Isotopes</i> , 2018, 134, 410-415.	1.5	0
5	Análisis espectroscópicos de restos arqueológicos provenientes de yacimientos romanos de Medellín (Badajoz) y su entorno. <i>DigitAR - Revista Digital De Arqueología Arquitectura E Artes</i> , 2018, , 103-110.	0.0	0
6	Study about the radionuclides implanted on glass surfaces for the estimation of retrospective indoor radon concentrations. <i>Applied Radiation and Isotopes</i> , 2017, 126, 13-15.	1.5	2
7	Actions for remediation in cases with large concentration of radon indoor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1219-1225.	1.5	3
8	Spectroscopic analysis of decorated vestiges found in the Roman Theatre of Medellín, Badajoz, Spain. <i>Microchemical Journal</i> , 2016, 124, 675-681.	4.5	6
9	Pigments Used in Rock Paintings from the East and West of the Iberian Peninsula Analysed by X-ray Fluorescence. , 2016, , 31-40.		1
10	Radon in underground waters as a natural analogue to study the escape of $\text{CO}_2$ in geological repositories. <i>Radiation Protection Dosimetry</i> , 2015, 167, 143-146.	0.8	0
11	Measuring radon concentrations and estimating dose in tourist caves. <i>Radiation Protection Dosimetry</i> , 2015, 167, 279-283.	0.8	3
12	Experimental studies about the ratio between $^{210}\text{Po}$ deposited on surfaces and retrospective indoor $^{222}\text{Rn}$ concentrations. <i>Radiation Protection Dosimetry</i> , 2014, 160, 206-209.	0.8	4
13	Improvements to alpha-particle spectrometry techniques. <i>Applied Radiation and Isotopes</i> , 2014, 87, 328-330.	1.5	6
14	Diamond detector for alpha-particle spectrometry. <i>Applied Radiation and Isotopes</i> , 2014, 90, 177-180.	1.5	13
15	ALFITeX: a new code for the deconvolution of complex alpha-particle spectra. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 1247-1252.	1.5	8
16	On the use of different scintillation cocktails for determining gross alpha and beta activities in water samples. <i>Applied Radiation and Isotopes</i> , 2013, 81, 175-178.	1.5	2
17	Late Pleistocene and Holocene mid-latitude palaeoclimatic and palaeoenvironmental reconstruction: an approach based on the isotopic record from a travertine formation in the Guadix-Baza basin, Spain. <i>Geological Magazine</i> , 2013, 150, 602-625.	1.5	17
18	Influence of source composition and particle energy on the determination of gross alpha activity. <i>Applied Radiation and Isotopes</i> , 2013, 82, 376-381.	1.5	3

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19	Measurements of alpha-gamma coincidences with an optimized dual-parameter multichannel system. Applied Radiation and Isotopes, 2013, 82, 308-313.	1.5	3
20	Additional contamination when radon is in excess. Applied Radiation and Isotopes, 2013, 81, 212-215.	1.5	15
21	Gross alpha and beta indices in water samples revisited. Applied Radiation and Isotopes, 2013, 81, 136-139.	1.5	3
22	Sample quality index to preselect suitable carbonate samples for alpha spectrometry U/Th dating. Applied Radiation and Isotopes, 2013, 73, 32-43.	1.5	3
23	Determination of alpha activity in solid samples by leaching or digestion. Applied Radiation and Isotopes, 2013, 81, 49-52.	1.5	3
24	ALFITeX: A code introducing improvements in the analysis of alpha spectra. , 2013, , .		0
25	Portable alpha spectrometer. Applied Radiation and Isotopes, 2012, 70, 2267-2269.	1.5	10
26	Assembly of an alpha-gamma coincidence measuring device for checking alpha decay schemes. Applied Radiation and Isotopes, 2012, 70, 2263-2266.	1.5	7
27	Estimating retrospective indoor radon concentrations with a new device. Applied Radiation and Isotopes, 2012, 70, 2742-2745.	1.5	3
28	<i>In situ</i> energy dispersive X-ray fluorescence analysis of rock art pigments from the "Abrigo dos Gaivões"™ and "Igreja dos Mouros"™ caves (Portugal). X-Ray Spectrometry, 2012, 41, 1-5.	1.4	17
29	Radon in workplaces in Extremadura (Spain). Journal of Environmental Radioactivity, 2012, 107, 86-91.	1.7	26
30	Radon: Risks and Applications. Nuclear Physics News, 2011, 21, 17-22.	0.4	1
31	Application of XRF spectrometry to the study of pigments in glazed ceramic pots. Applied Radiation and Isotopes, 2011, 69, 574-579.	1.5	16
32	SOLANG: A user-friendly code to calculate the geometry factor using Monte Carlo simulations. Application to alpha-particle spectrometry. Applied Radiation and Isotopes, 2011, 69, 822-824.	1.5	13
33	A method to reproduce alpha-particle spectra measured with semiconductor detectors. Applied Radiation and Isotopes, 2010, 68, 941-945.	1.5	9
34	Alpha-particle emission probabilities in the decay of <sup>240</sup> Pu. Applied Radiation and Isotopes, 2010, 68, 1459-1466.	1.5	18
35	Study of self-absorption for the determination of gross alpha and beta activities in water and soil samples. Applied Radiation and Isotopes, 2009, 67, 817-820.	1.5	15
36	Present status of <sup>222</sup> Rn in groundwater in Extremadura. Journal of Environmental Radioactivity, 2008, 99, 1539-1543.	1.7	34

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37	Design and construction of a new chamber for measuring the thickness of alpha-particle sources. Applied Radiation and Isotopes, 2008, 66, 804-807.	1.5	5
38	Multi-technique characterization of a nuclearbomb particle from the Palomares accident. Journal of Environmental Radioactivity, 2006, 90, 15-28.	1.7	26
39	$\hat{\alpha}$ -particle emission probabilities in the decay of $^{235}\text{U}$ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 581-592.	1.6	20
40	Estimates of the dose due to $^{222}\text{Rn}$ concentrations in water. Radiation Protection Dosimetry, 2004, 111, 3-7.	0.8	22
41	Application of ion transport simulation to the backscattering in $\hat{\alpha}$ -particle sources. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 129-133.	1.4	16
42	Isotopic uranium and plutonium analysis by alpha-particle spectrometry. Nuclear Instruments & Methods in Physics Research B, 2004, 213, 429-433.	1.4	20
43	Application of ultra-low level liquid scintillation to the determination of $^{222}\text{Rn}$ in groundwater. Journal of Radioanalytical and Nuclear Chemistry, 2004, 261, 631-636.	1.5	18
44	$^{210}\text{Pb}$ and $^{210}\text{Po}$ determination in environmental samples using liquid scintillation counting and alpha spectrometry. European Physical Journal D, 2003, 53, A25-A30.	0.4	2
45	Application of atomic and nuclear techniques to the study of inhomogeneities in electrodeposited $\hat{\alpha}$ -particle sources. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 747-750.	1.4	5
46	Study of the peak shape in alpha spectra measured by liquid scintillation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 485, 444-452.	1.6	11
47	Study of inhomogeneities in sources prepared for $\hat{\alpha}$ -particle spectrometry using scanning probe microscopy. Applied Radiation and Isotopes, 2002, 56, 31-36.	1.5	9
48	The effect of energy losses in $\hat{\alpha}$ -particle sources on the shape of peaks in spectra obtained with wide-angle geometry. Applied Radiation and Isotopes, 2002, 56, 51-55.	1.5	5
49	Plutonium contamination from accidental release or simply fallout: study of soils at Palomares (Spain). Journal of Environmental Radioactivity, 2001, 55, 157-165.	1.7	23
50	Activity of $^{239+240}\text{Pu}$ and $^{238}\text{Pu}$ in atmospheric deposits. Applied Radiation and Isotopes, 2001, 55, 97-102.	1.5	7
51	Monte Carlo Simulation as an Aid to Alpha-Particle Spectrometry. , 2001, , 1145-1150.		1
52	Uranium isotopic data in uraninite spent fuel from the BangombÃ© natural nuclear reactor (Gabon) and its surroundings. Applied Radiation and Isotopes, 2000, 53, 91-96.	1.5	7
53	Analysis of plutonium in soil samples. Applied Radiation and Isotopes, 2000, 53, 259-264.	1.5	24
54	Computer simulation of backscattered alpha particles. Applied Radiation and Isotopes, 2000, 52, 341-346.	1.5	15

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55	Radioactivity in bottled mineral waters. <i>Applied Radiation and Isotopes</i> , 1999, 50, 1049-1055.	1.5	53
56	Simplifying data fitting using branching ratios as constraints in alpha spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 420, 481-488.	1.6	19
57	Extractive procedure for uranium determination in water samples by liquid scintillation counting. <i>Applied Radiation and Isotopes</i> , 1998, 49, 875-883.	1.5	24
58	Ion beam analysis and alpha spectrometry of sources electrodeposited on several backings. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1998, 136-138, 290-296.	1.4	10
59	Semipermeable membrane to retain platinum atoms in the electrodeposition process of alpha spectrometry sources. <i>Applied Radiation and Isotopes</i> , 1998, 49, 1269-1272.	1.5	7
60	Experimental study of the curve-shape variations in alpha-particle spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 414, 265-273.	1.6	9
61	Distribution of uranium and thorium in sediments and plants from a granitic fluvial area. <i>Applied Radiation and Isotopes</i> , 1997, 48, 1137-1143.	1.5	26
62	Characterization of alpha sources prepared by direct evaporation using Rutherford backscattering spectrometry. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 132, 501-506.	1.4	4
63	Experimental studies of self-absorption and backscattering in alpha-particle sources. <i>Applied Radiation and Isotopes</i> , 1997, 48, 1215-1220.	1.5	20
64	Gross alpha- and beta-activities in rainwater and airborne particulate samples. Influence of rainfall and radon. <i>Journal of Environmental Radioactivity</i> , 1996, 31, 273-285.	1.7	11
65	Fitting of alpha spectra. Application to low-level measurements. <i>Applied Radiation and Isotopes</i> , 1996, 47, 899-903.	1.5	18
66	FITBOR: a new program for the analysis of complex alpha spectra. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 593-596.	1.6	36
67	Characterization of alpha sources by Rutherford backscattering spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 603-607.	1.6	12
68	Determination of $^{222}\text{Rn}$ and $^{226}\text{Ra}$ in aqueous samples using a low-level liquid scintillation counter. <i>Applied Radiation and Isotopes</i> , 1996, 47, 861-867.	1.5	35
69	Energy resolution, yield and radon diffusion in the electrodeposition of radium. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 364, 349-353.	1.6	7
70	Gamma and alpha spectrometry for natural radioactive nuclides in the spa waters of Extremadura (Spain). <i>Journal of Environmental Radioactivity</i> , 1995, 28, 209-220.	1.7	14
71	A simple proof for a simple rule. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 355, 663-664.	1.6	2
72	Optimizing the results in alpha-spectrometry of very low-level activity samples when the spike used is present in the sample. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1995, 196, 345-351.	1.5	4

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73	Constraints on uncertainties and their application to the emission probabilities of alpha-particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 340, 509-513.	1.6	7
74	A method for removing the emissions of natural uranium in the analysis of thorium alpha spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 346, 298-305.	1.6	9
75	SIMPLEX method for optimization of experiments Application to electrodeposition in alpha spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 348, 183-187.	1.6	44
76	An experimental study of symmetric and asymmetric peak-fitting parameters for alpha-particle spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 339, 127-130.	1.6	8
77	Yields and losses at each step in preparing uranium and thorium samples for alpha spectrometry. Applied Radiation and Isotopes, 1994, 45, 449-452.	1.5	16
78	Solution of the anharmonic quartic potential oscillator problem. Journal of Sound and Vibration, 1993, 161, 19-31.	3.9	9
79	Energy levels of the quartic double well using a phase-integral method. Physical Review A, 1993, 48, 3478-3485.	2.5	20
80	Some educational applications of alpha spectrometry. European Journal of Physics, 1992, 13, 257-263.	0.6	0
81	Uranium Contamination due to Nuclear Power Plants. Radiochimica Acta, 1992, 58-59, 311-314.	1.2	2
82	An observed correlation between alpha-particle peak-fitting parameters. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1992, 43, 223-227.	0.5	4
83	A rapid method for determination of the isotopic composition of uranium samples by alpha spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 313, 219-226.	1.6	18
84	GASP: a general-purpose program for environmental alpha spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 312, 211-216.	1.6	4
85	Optimal parameters for the electrodeposition of uranium. Journal of Radioanalytical and Nuclear Chemistry, 1992, 164, 23-28.	1.5	5
86	Optimizing the parameters affecting the yield and energy resolution in the electrodeposition of uranium. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1991, 42, 135-140.	0.5	46
87	Using $^{232}\text{U}$ as a yield monitor in assaying natural uranium by alpha-spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 1990, 141, 69-74.	1.5	6
88	Recent measurements of $^{228}\text{Th}$ activity by alpha-beta coincidence counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 273-275.	1.6	2
89	Improvement of the simple method of analysing alpha spectra of natural uranium samples spiked with $^{232}\text{U}$ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 450-452.	1.6	5
90	A direct measurement of $^{228}\text{Th}$ activity by alpha-beta coincidence counting. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 286, 375-378.	1.6	4

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91	Study of the energy resolution and yield of several methods for preparing uranium samples for alpha spectrometry. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1990, 41, 449-452.	0.5	14
92	Structure and melting of lead overlayers on Cu(100) studied with thermal-energy atom scattering. Physical Review B, 1989, 39, 5778-5786.	3.2	44
93	Generalized Fourier transforms for nonlinear systems. Journal of Mathematical Physics, 1989, 30, 1871-1876.	1.1	7
94	Seasonal variation of activity ratios for natural uranium in surface waters. Journal of Radioanalytical and Nuclear Chemistry, 1989, 134, 73-86.	1.5	4
95	A simple method of analysing alpha spectra of environmental natural uranium samples. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 276, 289-296.	1.6	21
96	A weighted mean-square method of "cubication" for non-linear oscillators. Journal of Sound and Vibration, 1989, 134, 423-433.	3.9	20
97	Generalized Fourier series for non-linear systems. Journal of Sound and Vibration, 1989, 134, 333-341.	3.9	7
98	Comment on "General relativistic perihelia precession and the anharmonic oscillator," by M. G. Olsson [Am. J. Phys. 56, 89-91 (1988)]. American Journal of Physics, 1989, 57, 1151-1152.	0.7	0
99	Activity ratios of natural uranium in surface waters. Journal of Radioanalytical and Nuclear Chemistry, 1988, 126, 419-427.	1.5	7
100	Generalized exponential, circular, and hyperbolic functions for nonlinear wave equations. Journal of Mathematical Physics, 1988, 29, 1847-1853.	1.1	10
101	Transmission coefficients in anharmonic symmetrical potentials. Journal of Mathematical Physics, 1987, 28, 636-642.	1.1	8
102	Natural isotopic separation of uranium in the Guadiana basin. Journal of Radioanalytical and Nuclear Chemistry, 1987, 118, 291-298.	1.5	9
103	Quantum anharmonic symmetrical oscillators using elliptic functions. Journal of Physics A, 1986, 19, 887-902.	1.6	26
104	Anharmonic asymmetric oscillator: A classical and quantum treatment. Journal of Chemical Physics, 1986, 85, 5128-5131.	3.0	14
105	Radioanalytical method for the determination of Sr in soil samples by yttrium solvent extraction and cerenkov counting. Special Publication - Royal Society of Chemistry, 0, , 307-312.	0.0	0