

Miguel Angel Respaldiza

List of Publications by Year in descending order

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73
papers

1,008
citations

430442

18
h-index

525886

27
g-index

74
all docs

74
docs citations

74
times ranked

1054
citing authors

#	ARTICLE	IF	CITATIONS
1	CNA: The first accelerator-based IBA facility in Spain. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 1137-1142.	0.6	58
2	Cadmium localization and quantification in the plant Arabidopsis thaliana using micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 2002, 189, 494-498.	0.6	56
3	Influence of oxygen and argon on the crystal quality and piezoelectric response of AlN sputtered thin films. Diamond and Related Materials, 2004, 13, 839-842.	1.8	49
4	X-ray Fluorescence analytical criteria to assess the fineness of ancient silver coins: Application on Ptolemaic coinage. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 681-690.	1.5	44
5	Study of the stoichiometry transfer in pulsed laser deposition of bioactive silica-based glasses. Thin Solid Films, 2004, 453-454, 219-223.	0.8	32
6	Comparative study of c-axis AlN films sputtered on metallic surfaces. Diamond and Related Materials, 2005, 14, 1198-1202.	1.8	29
7	Silver surface enrichment in ancient coins studied by micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 241-244.	0.6	29
8	Combining XRF and GRT for the analysis of ancient silver coins. Microchemical Journal, 2016, 126, 149-154.	2.3	26
9	Thermal and photochemical methods for the preparation of thin films of cermet materials. Journal of Materials Science, 1996, 31, 2325-2332.	1.7	25
10	External microbeam set-up at the CNA (Sevilla) and its application to the study of Tartesian jewellery. Nuclear Instruments & Methods in Physics Research B, 2001, 181, 664-669.	0.6	25
11	Title is missing!. Oxidation of Metals, 2002, 57, 33-51.	1.0	25
12	Identification of soldering and welding processes in ancient gold jewelry by micro-XRF spectroscopy. X-Ray Spectrometry, 2013, 42, 251-255.	0.9	25
13	PIXE and SEM studies of Tartesian gold artefacts. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 851-857.	0.6	22
14	TPPIXE analysis of phosphate rocks and phosphogypsum. Applied Radiation and Isotopes, 1999, 50, 445-449.	0.7	22
15	PIXE and PIGE analysis of late roman glass fragments. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 616-621.	0.6	22
16	First attempt to obtain the bulk composition of ancient silver-copper coins by using XRF and GRT. Nuclear Instruments & Methods in Physics Research B, 2015, 358, 93-97.	0.6	21
17	Reconsidering the accuracy of X-ray fluorescence and ion beam based methods when used to measure the thickness of ancient gildings. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 135, 42-47.	1.5	20
18	Influence of the target and working gas on the composition of silicon nitride thin films prepared by reactive RF-sputtering. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 199-205.	0.6	19

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19	Characterization of the new mobile confocal micro X-ray fluorescence (CXRF) system for in situ non-destructive cultural heritage analysis at the CNA: $^{114}\text{XRF-CONCHA}$. <i>Microchemical Journal</i> , 2016, 125, 62-68.	2.3	18
20	Compositional and microstructural study of joining methods in archaeological gold objects. <i>X-Ray Spectrometry</i> , 2017, 46, 123-130.	0.9	18
21	Accelerator-based research activities at "Centro Nacional de Aceleradores", Seville (Spain). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2105-2109.	0.6	17
22	Environmental impact of fertilizer industries evaluated by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 103, 477-481.	0.6	15
23	Gold and electrum jewellery in the strategic area of Gadir in Phoenician period. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 329-335.	0.6	15
24	Non-destructive micro-analytical system for the study of the manufacturing processes of a group of gold jewels from "El Carambolo" treasure. <i>Radiation Physics and Chemistry</i> , 2017, 130, 133-141.	1.4	15
25	TPPIXE analysis of Guadiamar river sediments collected before the environmental disaster of 1998. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 161-163, 825-829.	0.6	14
26	The response of several luminescent materials to keV and MeV ions. <i>Journal of Nuclear Materials</i> , 2005, 340, 291-298.	1.3	14
27	A comparative study of PIXE and XRF corrected by Gamma-Ray Transmission for the non-destructive characterization of a gilded roman railing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1920-1923.	0.6	14
28	The use of a portable energy dispersive x-ray fluorescence spectrometer for the characterization of patinas from the architectural heritage of the Iberian peninsula. <i>X-Ray Spectrometry</i> , 2008, 37, 399-409.	0.9	13
29	Effect of the substrate heterostructure on the texture of lanthanum modified lead titanate thin films. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1529-1533.	2.8	12
30	The response of a chromium doped alumina screen to keV and MeV ions. <i>Journal of Nuclear Materials</i> , 2003, 321, 78-83.	1.3	12
31	Chemical Solution Deposition of $(\text{Pb}_{1-x}\text{Ca}_x)\text{TiO}_3$ Thin Films with $x \sim 0.5$ as New Dielectrics for Tunable Components and Dynamic Random Access Memories. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3388-3396.	1.9	12
32	XRF analysis of two terracotta polychrome sculptures by Pietro Torrigiano. <i>X-Ray Spectrometry</i> , 2009, 38, 169-174.	0.9	12
33	Portable XRF study of pigments applied in Juan Hispalense's 15th century panel painting. <i>X-Ray Spectrometry</i> , 2011, 40, 96-100.	0.9	12
34	Anthropogenic contamination of an estuarine system evaluated by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 506-510.	0.6	11
35	Pigment identification using x-ray fluorescence in a polychromated sculpture by Pedro Millán. <i>X-Ray Spectrometry</i> , 2008, 37, 355-359.	0.9	11
36	IBA characterisation of glasses from the archaeological site of "La Alcazaba", Almería (Spain). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1587-1590.	0.6	11

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37	Environmental control of Tinto and Odiel river basins by PIXE. Nuclear Instruments & Methods in Physics Research B, 1993, 75, 334-337.	0.6	10
38	Rutherford backscattering spectrometry (RBS) characterization of oxide scale formed on (AISI-304) steel after surface deposition of lanthanum. Acta Materialia, 1996, 44, 675-681.	3.8	10
39	Influence of the mining activity on sediments from the Odiel river (sw of Spain) analyzed by TTPIXE. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1000-1004.	0.6	10
40	External-beam PIXE spectrometry for the study of Punic jewellery (SW Spain): The geographical provenance of the palladium-bearing gold. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 622-627.	0.6	10
41	Combining PIXE and XRF with gamma-ray transmission to get accurate analysis of archaeological bronzes. Nuclear Instruments & Methods in Physics Research B, 1990, 50, 226-230.	0.6	9
42	The state of the Guadamar riverbed after the environmental disaster of 1998 analysed by TTPIXE. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 102-105.	0.6	9
43	Compositional characterization of silicon nitride thin films prepared by RF-sputtering. Vacuum, 2002, 67, 513-518.	1.6	9
44	PIXE analysis of a Visigothic gold cross. Nuclear Instruments & Methods in Physics Research B, 2004, 226, 199-207.	0.6	9
45	Multi-technique characterization of gold electroplating on silver substrates for cultural heritage applications. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 318-323.	0.6	9
46	Determination of nitrogen in metallic phases using the $(d, p^{13})^{15}N$ nuclear reaction. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 96-101.	0.6	8
47	Historical impact in an estuary of some mining and industrial activities evaluated through the analysis by TTPIXE of a dated sediment core. Nuclear Instruments & Methods in Physics Research B, 2002, 189, 153-157.	0.6	8
48	Compositional and structural study of ferroelectric multilayer $(Pb,La)TiO_3/(Pb,Ca)TiO_3$ sol-gel thin films. Journal of the European Ceramic Society, 2004, 24, 1615-1619.	2.8	8
49	X-ray and gamma-ray based spectroscopic analysis of a millefiori Roman glass fragment: degradation of sunken glass from a shipwreck. Journal of Analytical Atomic Spectrometry, 2016, 31, 773-779.	1.6	8
50	Non-destructive analysis of archaeological bronzes by nuclear techniques. Nuclear Instruments & Methods in Physics Research B, 1994, 89, 109-113.	0.6	7
51	High energy ion characterization of sputtered AlN thin films. Diamond and Related Materials, 2003, 12, 1157-1161.	1.8	7
52	Feasibility of different cleaning methods for silver-copper alloys by X-ray fluorescence: Application to ancient Greek silver coins. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 116, 85-91.	1.5	7
53	Technical characterization of the necklace of El Carambolo hoard (Camas, Seville, Spain). Microchemical Journal, 2018, 139, 401-409.	2.3	7
54	Elemental composition of sediments determined by TTPIXE. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 175-179.	0.6	6

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55	In-situ non-destructive analysis of Etruscan gold jewels with the micro-XRF transportable spectrometer from CNA. <i>Journal of Archaeological Science: Reports</i> , 2017, 16, 185-193.	0.2	6
56	Quality control by PEEXE of Al/Si alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 28, 67-75.	0.6	5
57	TTPIXE analysis of Al/Si alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 22, 446-449.	0.6	5
58	Determination by PIXE of the elemental distribution in a lake. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992, 64, 538-541.	0.6	5
59	Analysis of the elements sputtered during the lanthanum implantation in stainless steels. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 139, 344-349.	0.6	5
60	PIXE studies of osteoporosis preventive treatments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 431-436.	0.6	5
61	Identifying elements in rocks from the Dry Valleys desert (Antarctica) by ion beam proton induced X-ray emission. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 571-574.	0.6	4
62	Combining non-destructive nuclear techniques to study Roman leaded copper coins from Ilipa (Ilâ€™I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	4
63	Non-destructive XRF analysis of selected Flemish panel paintings in the Fine Arts Museum of Seville. <i>Journal of the Institute of Conservation</i> , 2014, 37, 136-151.	0.2	4
64	Anthropogenic contamination analyzed by TTPIXE in samples from the Odiel salt marsh at the SW Spain. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997, 223, 33-40.	0.7	3
65	Red layered medieval stained glass window characterization by means of micro-PIXE technique. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2378-2382.	0.6	3
66	Non-destructive analysis of pigments in a triptych by Marten de Vos. <i>Spectroscopy Letters</i> , 2016, 49, 30-36.	0.5	3
67	Sputtering studies during lanthanum implantation in stainless steels. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 127-128, 791-795.	0.6	2
68	Oxide scale depth profiling of lanthanum-deposited AISI-304: An ion beam analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 136-138, 1045-1051.	0.6	2
69	Use of nuclear microanalysis to study the oxygenation mechanism of Y1Ba2Cu3O7âˆ™x thin films: estimation of the oxygen diffusion coefficients. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 190, 661-666.	0.6	2
70	Nitrogen determination in micas of metamorphic rocks. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 642-645.	0.6	2
71	Characterization of glaze ceramics from the archaeological site of La Alcazaba, AlmerÃa (Spain). <i>Microchemical Journal</i> , 2018, 138, 72-81.	2.3	2
72	Ion beam analysis techniques in interdisciplinary applications. , 1999, , .		0

#	ARTICLE	IF	CITATIONS
73	Noninvasive Imaging and Spectroscopic Techniques Applied In Situ in Museums. , 2022, , 641-672.		0