

Luis Alves

List of Publications by Year in descending order

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217
papers

2,610
citations

279487

23
h-index

315357

38
g-index

221
all docs

221
docs citations

221
times ranked

2778
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratum Corneum Is an Effective Barrier to TiO ₂ and ZnO Nanoparticle Percutaneous Absorption. <i>Skin Pharmacology and Physiology</i> , 2009, 22, 266-275.	1.1	187
2	Distribution in Portugal of some pollutants in the lichen <i>Parmelia sulcata</i> . <i>Environmental Pollution</i> , 1999, 106, 229-235.	3.7	71
3	Optical spectroscopy of Pr ³⁺ in M:Bi(XO ₄) ₂ , M = Li or Na and X = W or Mo, locally disordered single crystals. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2139-2160.	0.7	67
4	Micron-scale analysis of SiC/SiCf composites using the new Lisbon nuclear microprobe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 161-163, 334-338.	0.6	65
5	DATPIXE, a computer package for TPIXE data analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992, 68, 300-304.	0.6	61
6	The influence of corneocyte structure on the interpretation of permeation profiles of nanoparticles across skin. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 119-123.	0.6	57
7	Lichens (<i>Parmelia sulcata</i>) time response model to environmental elemental availability. <i>Science of the Total Environment</i> , 1999, 232, 105-115.	3.9	55
8	Ancient Portuguese Ceramic Wall Tiles (Azulejos): Characterization of the Glaze and Ceramic Pigments. <i>Journal of Nano Research</i> , 0, 8, 79-88.	0.8	54
9	Bio-monitoring of trace-element air pollution in Portugal: Qualitative survey. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997, 217, 21-30.	0.7	52
10	Matrix effects correction for quantitative TPIXE analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 134-138.	0.6	48
11	Filling the gaps of dinosaur eggshell phylogeny: Late Jurassic Theropod clutch with embryos from Portugal. <i>Scientific Reports</i> , 2013, 3, 1924.	1.6	45
12	Nuclear microscopy: A tool for imaging elemental distribution and percutaneous absorption in vivo. <i>Microscopy Research and Technique</i> , 2007, 70, 302-309.	1.2	36
13	Investigation of surface silver enrichment in ancient high silver alloys by PIXE, EDXRF, LA-ICP-MS and SEM-EDS. <i>Microchemical Journal</i> , 2017, 131, 103-111.	2.3	35
14	Imaging of charge transport in polycrystalline diamond using ion-beam-induced charge microscopy. <i>Applied Physics Letters</i> , 2000, 77, 913-915.	1.5	34
15	Main atmospheric heavy metal sources in Portugal by biomonitor analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 493-497.	0.6	32
16	Elemental analysis of particulate matter and source identification in Lisbon. <i>X-Ray Spectrometry</i> , 1998, 27, 313-320.	0.9	28
17	Skin morphology and layer identification using different STIM geometries. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 231, 292-299.	0.6	28
18	Growth of Ga(1-x)InxSb alloys by Vertical Bridgman technique under alternating magnetic field. <i>Journal of Crystal Growth</i> , 2006, 287, 224-229.	0.7	28

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19	Optical properties of LFZ grown \hat{I}^2 -Ga ₂ O ₃ :Eu ³⁺ fibres. Applied Surface Science, 2012, 258, 9157-9161.	3.1	28
20	Hispano-Moresque ceramic tiles from the Monastery of Santa Clara-a-Velha (Coimbra, Portugal). Journal of Archaeological Science, 2014, 41, 21-28.	1.2	28
21	Comparison of EDXRF and PIXE in the analysis of ancient gold coins. Nuclear Instruments & Methods in Physics Research B, 1993, 75, 450-453.	0.6	27
22	Characterisation of corrosion products in Cr implanted Mg surfaces. Surface and Coatings Technology, 2002, 158-159, 328-333.	2.2	27
23	Corrosion of 15th and early 16th century stained glass from the monastery of Batalha studied with external ion beam. Materials Characterization, 2011, 62, 211-217.	1.9	27
24	Compositional analysis by RBS, XPS and EDX of ZnO:Al,Bi and ZnO:Ga,Bi thin films deposited by d.c. magnetron sputtering. Vacuum, 2019, 161, 268-275.	1.6	26
25	Production of Cu/diamond composites for first-wall heat sinks. Fusion Engineering and Design, 2011, 86, 2589-2592.	1.0	23
26	ION BEAM ANALYSIS OF COPPER AND COPPER ALLOY COINS. Archaeometry, 1988, 30, 187-197.	0.6	22
27	Ultrastructure of Tuta absoluta parasitized eggs and the reproductive potential of females after parasitism by Metarhizium anisopliae. Micron, 2009, 40, 255-261.	1.1	22
28	Roman and modern slag at S. Domingos mine (IPB, Portugal): compositional features and implications for their long-term stability and potential reuse. International Journal of Environment and Waste Management, 2011, 8, 133.	0.2	22
29	Characterisation of medieval yellow silver stained glass from Convento de Cristo in Tomar, Portugal. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2383-2388.	0.6	22
30	Imaging of intracellular metal partitioning in marine diatoms exposed to metal pollution: consequences to cellular toxicity and metal fate in the environment. Metallomics, 2014, 6, 1626.	1.0	22
31	Study of Iron Gall Inks, Ingredients and Paper Composition Using Non-Destructive Techniques. Heritage, 2019, 2, 2691-2703.	0.9	22
32	Electrical and optical properties of heavily Ge-doped AlGaIn. Journal Physics D: Applied Physics, 2019, 52, 125101.	1.3	22
33	Microstructural characterization of Eurofer-ODS RAFM steel in the normalized and tempered condition and after thermal aging in simulated fusion conditions. Fusion Engineering and Design, 2005, 75-79, 1061-1065.	1.0	21
34	A biocompatible hybrid material with simultaneous calcium and strontium release capability for bone tissue repair. Materials Science and Engineering C, 2016, 62, 429-438.	3.8	21
35	Air particulate matter characterisation of a rural area in Portugal. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 941-947.	0.6	20
36	High Resolution and Differential PIXE combined with RBS, EBS and AFM analysis of magnesium titanate (MgTiO ₃) multilayer structures. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1980-1985.	0.6	20

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37	Mechanical synthesis of copper-carbon nanocomposites: Structural changes, strengthening and thermal stabilization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8610-8620.	2.6	20
38	Fungal biodeterioration of stained-glass windows in monuments from Belém do Pará (Brazil). <i>International Biodeterioration and Biodegradation</i> , 2019, 138, 106-113.	1.9	20
39	Ultrafast Low-Temperature Crystallization of Solar Cell Graded Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskites Using a Reproducible Microwave-Based Process. <i>ACS Applied Energy Materials</i> , 2019, 2, 1844-1853.	2.5	20
40	Calibration of lichen transplants considering faint memory effects. <i>Environmental Pollution</i> , 2002, 120, 87-95.	3.7	19
41	Stained glasses from Monastery of Batalha: Non-destructive characterisation of glasses and glass paintings. <i>Journal of Cultural Heritage</i> , 2008, 9, e5-e9.	1.5	19
42	Ion microprobe study of the scale formed during high temperature oxidation of high silicon EN-1.4301 stainless steel. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 181, 394-398.	0.6	18
43	Hydrogenic retention of high-Z refractory metals exposed to ITER divertor-relevant plasma conditions. <i>Nuclear Fusion</i> , 2010, 50, 055004.	1.6	17
44	Characterization of mercury gilding art objects by external proton beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 3049-3053.	0.6	17
45	Mineralogy and geochemistry of tin- and germanium-bearing copper ore, Barrigão re-mobilized vein deposit, Iberian Pyrite Belt, Portugal. <i>International Geology Review</i> , 2011, 53, 1212-1238.	1.1	17
46	Facile Microwave-assisted Synthesis Manganese Doped Zinc Sulfide Nanoparticles. <i>Scientific Reports</i> , 2018, 8, 15992.	1.6	17
47	Comparison of continental Portugal and Azores Islands aerosol during a Sahara dust storm. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 272-278.	0.6	16
48	DT2, a PIXE spectra simulation and fitting package. <i>X-Ray Spectrometry</i> , 2008, 37, 100-102.	0.9	16
49	Experimental X-ray peak-shape determination for a Si(Li) detector. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 129-133.	0.6	15
50	Erosion and re-deposition processes in JET tiles studied with ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1991-1996.	0.6	15
51	Lead in liver and kidney of exposed rats: Aging accumulation study. <i>Journal of Trace Elements in Medicine and Biology</i> , 2012, 26, 285-290.	1.5	15
52	The Glaze Technology of Hispano-Moresque Ceramic Tiles: A Comparison Between Portuguese and Spanish Collections. <i>Archaeometry</i> , 2017, 59, 667-684.	0.6	15
53	An insider view of the Portuguese ion beam laboratory. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	15
54	Environmental assessment in an industrial area of Portugal. <i>Biological Trace Element Research</i> , 1999, 71-72, 273-280.	1.9	14

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55	Synthesis of ZnO nanocrystals in sapphire by ion implantation and vacuum annealing. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 515-518.	0.6	14
56	Hydrogenic retention in tungsten exposed to ITER divertor relevant plasma flux densities. Journal of Nuclear Materials, 2009, 390-391, 610-613.	1.3	14
57	Paintings on copper by the Flemish artist Frans Francken II: PIXE characterization by external microbeam. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 291-295.	0.6	14
58	High quality ion-induced secondary electron imaging for MeV nuclear microprobe applications. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 560.	1.6	13
59	Structural and optical properties of Zn _{0.9} Mn _{0.1} O/ZnO core-shell nanowires designed by pulsed laser deposition. Journal of Applied Physics, 2009, 106, .	1.1	13
60	High airborne PM _{2.5} chlorine concentrations link to diabetes surge in Portugal. Science of the Total Environment, 2009, 407, 5726-5734.	3.9	13
61	Stained glasses under the nuclear microprobe: A window into history. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2260-2264.	0.6	13
62	An integrated approach for assessing the bioreceptivity of glazed tiles to phototrophic microorganisms. Biofouling, 2016, 32, 243-259.	0.8	13
63	Enhanced X-ray yields from insulating samples. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 837-840.	0.6	12
64	Morphologic characterisation and elemental distribution of Octopus vulgaris Cuvier, 1797 vestigial shell. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 345-349.	0.6	12
65	Microstructural characterization of the ODS Eurofer 97 EU-batch. Fusion Engineering and Design, 2011, 86, 2386-2389.	1.0	12
66	Microprobe analysis, iono- and photo-luminescence of Mn ²⁺ activated ZnGa ₂ O ₄ fibres. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 195-200.	0.6	12
67	On the influence of silica type on the structural integrity of dense La _{9.33} Si ₂ Ge ₄ O ₂₆ electrolytes for SOFCs. Journal of the European Ceramic Society, 2013, 33, 2251-2258.	2.8	12
68	Doping of Ga ₂ O ₃ bulk crystals and NWs by ion implantation. Proceedings of SPIE, 2014, , .	0.8	12
69	A comparison of quantitative reconstruction techniques for PIXE-tomography analysis applied to biological samples. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 248-252.	0.6	12
70	Imaging of charge transport properties in polycrystalline CVD diamond using IBIC and IBIL microscopy. Nuclear Instruments & Methods in Physics Research B, 2001, 181, 219-224.	0.6	11
71	Microscopic evaluation of spatial variations in material and charge transport properties of CdZnTe radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 427-432.	0.7	11
72	HYPOGENE TITANIAN, VANADIAN MAGHEMITE IN REWORKED OXIDE CUMULATES IN THE BEJA LAYERED GABBRO COMPLEX, ODIVELAS, SOUTHEASTERN PORTUGAL. Canadian Mineralogist, 2003, 41, 1105-1124.	0.3	11

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73	Elemental distributions in femoral bone of rat under osteoporosis preventive treatments. <i>Journal of Microscopy</i> , 2006, 224, 298-305.	0.8	11
74	Phase relations of the Eu-Zn-Al system at 400°C from 0 to 33.3at.% Eu. <i>Journal of Alloys and Compounds</i> , 2010, 495, 39-44.	2.8	11
75	Formation and delamination of beryllium carbide films. <i>Journal of Nuclear Materials</i> , 2013, 442, S320-S324.	1.3	11
76	Tin determination in fistula seals from Conimbriga and Augusta Emerita. <i>Microchemical Journal</i> , 2016, 124, 540-546.	2.3	11
77	Nanotechnology in Roman Opaque Red Glass from the 2nd Century AD. Archaeometric Investigation in Red Sectilia from the Decoration of the Lucius Verus Villa in Rome. <i>Heritage</i> , 2019, 2, 2597-2611.	0.9	11
78	Castanea sativa shells and fruits: Compositional analysis by proton induced X-ray emission. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 477, 98-103.	0.6	11
79	Debitus grisailles for stained-glass conservation: an analytical study. <i>Conservar Patrimonio</i> , 2020, 34, 65-72.	0.5	11
80	Early Iron Age gold buttons from South-Western Iberian Peninsula. Identification of a gold metallurgical workshop. <i>Trabajos De Prehistoria</i> , 2010, 67, 501-510.	0.2	11
81	Quantitative elemental analysis of thick samples by XRF and PIXE. <i>X-Ray Spectrometry</i> , 1989, 18, 157-164.	0.9	10
82	Anomalous X-ray yields from insulating samples bombarded by ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 161-163, 120-124.	0.6	10
83	Study of the crystalline quality of exfoliated surfaces in hydrogen-implanted silicon. <i>Applied Physics Letters</i> , 2000, 77, 268-270.	1.5	10
84	Growth of concentrated GaInSb alloys with improved chemical homogeneity at low and variable pulling rates. <i>Journal of Crystal Growth</i> , 2005, 283, 124-133.	0.7	10
85	The earrings of Pancas treasure: Analytical study by X-ray based techniques – A first approach. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 306, 236-240.	0.6	10
86	Fast simulation of Proton Induced X-Ray Emission Tomography using CUDA. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 306, 109-112.	0.6	10
87	Li ceramic pebbles chemical compatibility with Eurofer samples in fusion relevant conditions. <i>Journal of Nuclear Materials</i> , 2004, 329-333, 1295-1299.	1.3	9
88	Optical and structural behaviour of Cu-implanted sapphire. <i>Surface and Coatings Technology</i> , 2007, 201, 8190-8196.	2.2	9
89	Micro-scale elemental distribution in the thallus of <i>Flavoparmelia caperata</i> transplanted to polluted site. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 281, 205-210.	0.7	9
90	Using the exhaled breath condensate as a tool for non-invasive evaluation of pollutant exposure. <i>International Journal of Environment and Health</i> , 2010, 4, 293.	0.3	9

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91	Comparative study of fusion relevant properties of Be12V and Be12Ti. Fusion Engineering and Design, 2011, 86, 2454-2457.	1.0	9
92	Tritium permeation, retention and release properties of beryllium pebbles. Fusion Engineering and Design, 2011, 86, 2338-2342.	1.0	9
93	Magnetic and electrical characterization of TiO2 single crystals co-implanted with iron and cobalt. Journal of Magnetism and Magnetic Materials, 2014, 364, 106-116.	1.0	9
94	Characterization of the glaze and in-glaze pigments of the nineteenth-century relief tiles from the Pena National Palace, Sintra, Portugal. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	9
95	Christian-Muslim contacts across the Mediterranean: Byzantine glass mosaics in the Great Umayyad Mosque of Córdoba (Spain). Journal of Archaeological Science, 2021, 129, 105370.	1.2	9
96	Elemental composition in sediments and water in the Trancão river basin. A preliminary study. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1005-1012.	0.6	8
97	Historical impact in an estuary of some mining and industrial activities evaluated through the analysis by TPIXE of a dated sediment core. Nuclear Instruments & Methods in Physics Research B, 2002, 189, 153-157.	0.6	8
98	Structural and optical properties of Er ³⁺ ion in sol-gel grown LiNbO ₃ . Journal of Physics Condensed Matter, 2007, 19, 016213.	0.7	8
99	Electrochemical behaviour of chromium-implanted magnesium in hydroxide, chloride and sulphate solutions. Surface and Coatings Technology, 2008, 202, 4086-4093.	2.2	8
100	Growth of GaInSb concentrated alloys under alternating magnetic field. Journal of Crystal Growth, 2008, 310, 1424-1432.	0.7	8
101	k ₀ -INAA performance in the measurement of filters sampled in an industry with high loadings of metals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 453-455.	0.7	8
102	Nitrogen and argon doped zinc oxide. Journal of Physics Condensed Matter, 2010, 22, 346005.	0.7	8
103	A comparative study of photo-, cathodo- and ionoluminescence of GaN nanowires implanted with rare earth ions. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 201-206.	0.6	8
104	Towards the understanding of the intentionally induced yellow luminescence in GaN nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 667-672.	0.8	8
105	Swiss Stained-Glass Panels: An Analytical Study. Microscopy and Microanalysis, 2017, 23, 878-890.	0.2	8
106	Radiation sensors based on GaN microwires. Journal Physics D: Applied Physics, 2018, 51, 175105.	1.3	8
107	Crisailles: Reconstruction and characterization of historical recipes. International Journal of Applied Glass Science, 2020, 11, 756-773.	1.0	8
108	Surface analysis of corroded XV th -XVI century copper coins by ¹³⁷ Cs-XRF and ¹³⁷ Cs-PIXE/ ¹³⁷ Cs-EBS self-consistent analysis. Materials Characterization, 2020, 161, 110170.	1.9	8

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109	Enhancing the luminescence yield of Cr ³⁺ in α -Ga ₂ O ₃ by proton irradiation. Applied Physics Letters, 2022, 120, .	1.5	8
110	A photomultiplier-based secondary electron imaging system for a nuclear microprobe. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 146-150.	0.6	7
111	Using skin to assess iron accumulation in human metabolic disorders. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 697-701.	0.6	7
112	Particulate matter in exhaled breath condensate: A promising indicator of environmental conditions. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2404-2408.	0.6	7
113	Effect of rapid thermal annealing on the composition of Au/Ti/Al/Ti ohmic contacts for GaN-based microdevices. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 212-217.	0.6	7
114	Wine Bottles From Lisbon: Archaeometric Studies Of Two Archaeological Sites Dated From The 17th To The 19th Century. Archaeometry, 2017, 59, 852-873.	0.6	7
115	Simultaneous use and self-consistent analyses of 24 PIXE and 24 EBS for the characterization of corrosion layers grown on ancient coins. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 324-328.	0.6	7
116	In Situ Characterization and Modification of α -Ga ₂ O ₃ Flakes Using an Ion Microprobe. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800190.	0.8	7
117	Microanalytical study of copper ores from the Chalcolithic settlement of São Pedro (Portugal): Copper production in the south-western Iberian Peninsula. Archaeometry, 2020, 62, 314-328.	0.6	7
118	Imaging and quantification of trace metals in thin biological specimens using microprobe techniques: Synchrotron induced X-ray fluorescence microprobe and nuclear microprobe. European Physical Journal Special Topics, 2003, 104, 321-324.	0.2	7
119	Influence of Temperature and Pressure on the Beryllium Pebbles Bed Electrical Resistivity. Fusion Science and Technology, 2000, 38, 320-325.	0.6	6
120	Surface studies of SiC/SiCf composites exposed to relevant fusion reactor conditions. Surface and Interface Analysis, 2000, 30, 98-100.	0.8	6
121	Ion beam analysis of GaInAsSb films grown by MOVPE on GaSb. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 326-330.	0.6	6
122	Ion beam characterisation of ODS steel samples after long term annealing conditions. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 493-496.	0.6	6
123	Surface composition and morphology changes of JET tiles under plasma interactions. Fusion Engineering and Design, 2011, 86, 2557-2560.	1.0	6
124	Analysis of surface stains on modern gold coins. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 232-235.	0.6	6
125	Microdistribution of major to trace elements between roots of Halimione portulacoides and host sediments (Tagus estuary marsh, Portugal). Plant and Soil, 2014, 376, 129-137.	1.8	6
126	Optical performance of thin films produced by the pulsed laser deposition of SiAlON and Er targets. Applied Surface Science, 2015, 336, 274-277.	3.1	6

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127	First archaeometric study on medieval glass found in Beja (Southern Portugal). <i>Journal of Medieval Iberian Studies</i> , 2016, 8, 148-175.	0.2	6
128	Study of In distribution on GaInSb:Al crystals by ion beam techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 278-282.	0.6	6
129	3D map distribution of metallic nanoparticles in whole cells using MeV ion microscopy. <i>Journal of Microscopy</i> , 2017, 267, 227-236.	0.8	6
130	PIXE studies of osteoporosis preventive treatments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 431-436.	0.6	5
131	Synthesis and characterisation of GaSb and GaInSb feed materials. <i>Journal of Crystal Growth</i> , 2005, 275, e601-e607.	0.7	5
132	Electrochemical behaviour of uranium (IV) in DMF at vitreous carbon. <i>Electrochimica Acta</i> , 2009, 54, 7318-7323.	2.6	5
133	Damage recovery and optical activity in europium implanted wide gap oxides. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 3137-3141.	0.6	5
134	Micro-scale elemental partition in tissues of the aquatic plant <i>Lemna minor</i> L. exposed to highway drainage water. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 306, 150-152.	0.6	5
135	Provenance studies on faïence-de-Venise glass excavated in Portugal. <i>Journal of Archaeological Science: Reports</i> , 2016, 7, 437-448.	0.2	5
136	Fensterbierscheiben in the Pena National Palace collection - chemical and iconographic relations. <i>X-Ray Spectrometry</i> , 2016, 45, 308-317.	0.9	5
137	Electrical characterization of molybdenum oxide lamellar crystals irradiated with UV light and proton beams. <i>Surface and Coatings Technology</i> , 2018, 355, 50-54.	2.2	5
138	From beams to glass: determining compositions to study provenance and production techniques. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	5
139	Modelling the uptake of suspended materials and salts in nearshore waters by plastics using nuclear microscopy and depth profiling analytical tools. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 451, 127-134.	0.6	5
140	The Composition of the São Brãs Copper Hoard in Relation to the Bell Beaker Metallurgy in the Southwestern Iberian Peninsula. <i>Archaeometry</i> , 2019, 61, 392-405.	0.6	5
141	A transparent dialogue between iconography and chemical characterisation: a set of foreign stained glasses in Portugal. <i>Heritage Science</i> , 2021, 9, .	1.0	5
142	Biological monitoring of toxic metals – steel workers respiratory health survey. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 150, 185-192.	0.6	4
143	Elemental characterisation of beryllium and electrical behaviour of their pebbles beds. <i>Journal of Nuclear Materials</i> , 2002, 307-311, 643-646.	1.3	4
144	Integration Of SIMS Into A General Purpose IBA Data Analysis Code. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	4

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145	Characterization of PE-g-HEMA films prepared by gamma irradiation through nuclear microprobe techniques. Radiation Physics and Chemistry, 2012, 81, 1319-1323.	1.4	4
146	AlN content influence on the properties of Al _x Ga _{1-x} N doped with Pr ions. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 149-152.	0.6	4
147	New gas detector setup for on-axis STIM tomography experiments. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 104-108.	0.6	4
148	Elemental distribution in human femoral head. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 266-270.	0.6	4
149	Depth profile by Total IBA in perovskite active layers for solar cells. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 211-218.	0.6	4
150	Provenance studies of 18th century potassium-rich archaeological glass from Portugal. Journal of Archaeological Science: Reports, 2017, 13, 185-198.	0.2	4
151	Lithium dilution in Li-Sn alloys. Nuclear Materials and Energy, 2020, 25, 100783.	0.6	4
152	Arduino-controlled Reflectance Transformation Imaging to the study of cultural heritage objects. SN Applied Sciences, 2020, 2, 1.	1.5	4
153	Chemical, physical and mineralogical characterisation of the Hispano-Moresque tile collection from Lisbon Roman Theatre Museum. Conservar Património, 2018, 29, 25-39.	0.5	4
154	Pollution assessment in the Trancão river basin (Portugal) by PIXE, EDXRF and isotopic analysis. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 306-311.	0.6	3
155	Airborne particulate matter localisation in the human respiratory system. Nuclear Instruments & Methods in Physics Research B, 1999, 158, 499-504.	0.6	3
156	Comparison between vertical Bridgman and feeding techniques for GaInSb alloy growths. Journal of Crystal Growth, 2005, 275, e537-e542.	0.7	3
157	Compositional and structural characterisation of GaSb and GaInSb. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 360-364.	0.6	3
158	Rediscovering the materials of Arraiolos tapestries: fibre and mordant analysis by SEM-EDS and ¹⁴ C-PIXE. Microscopy and Microanalysis, 2008, 14, 91-94.	0.2	3
159	Imaging iron in skin and liver: Non-invasive tools for hemochromatosis therapy. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2140-2143.	0.6	3
160	Iron and cobalt co-doping of single crystalline titanium dioxide. Journal of Physics: Conference Series, 2010, 200, 062028.	0.3	3
161	IBIXFIT: A Tool For The Analysis Of Microcalorimeter PIXE Spectra. , 2011, , .		3
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