

# Javier Miranda

## List of Publications by Citations

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101  
papers

1,355  
citations

19  
h-index

32  
g-index

110  
ext. papers

1,486  
ext. citations

2.7  
avg, IF

4.12  
L-index

#	Paper	IF	Citations
101	Proinflammatory and cytotoxic effects of Mexico City air pollution particulate matter in vitro are dependent on particle size and composition. <i>Environmental Health Perspectives</i> , <b>2003</b> , 111, 1289-93	8.4	212
100	Motor alterations associated with exposure to manganese in the environment in Mexico. <i>Science of the Total Environment</i> , <b>2006</b> , 368, 542-56	10.2	88
99	Induction of IL-6 and inhibition of IL-8 secretion in the human airway cell line Calu-3 by urban particulate matter collected with a modified method of PM sampling. <i>Environmental Research</i> , <b>2009</b> , 109, 528-35	7.9	64
98	A receptor model for atmospheric aerosols from a southwestern site in Mexico City. <i>Atmospheric Environment</i> , <b>1996</b> , 30, 3471-3479	5.3	64
97	Determination of elemental concentrations in atmospheric aerosols in Mexico City using proton induced x-ray emission, proton elastic scattering, and laser absorption. <i>Atmospheric Environment</i> , <b>1994</b> , 28, 2299-2306	5.3	54
96	Organic compounds of PM <sub>2.5</sub> in Mexico Valley: spatial and temporal patterns, behavior and sources. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 1453-65	10.2	50
95	In vitro biological effects of airborne PM <sub>10</sub> and PM <sub>2.5</sub> from a semi-desert city on the Mexico-US border. <i>Chemosphere</i> , <b>2011</b> , 83, 618-26	8.4	50
94	Experimental cross sections for L-shell x-ray production and ionization by protons. <i>Atomic Data and Nuclear Data Tables</i> , <b>2014</b> , 100, 651-780	2	40
93	Cytoplasmic p21(CIP1/WAF1), ERK1/2 activation, and cytoskeletal remodeling are associated with the senescence-like phenotype after airborne particulate matter (PM <sub>10</sub> ) exposure in lung cells. <i>Toxicology Letters</i> , <b>2014</b> , 225, 12-9	4.4	27
92	TWO YEAR STUDY OF ELEMENTAL COMPOSITION OF ATMOSPHERIC AEROSOLS IN MEXICO CITY. <i>International Journal of PIXE</i> , <b>1991</b> , 01, 373-388	0.1	25
91	DEVELOPMENT OF AN X-RAY FLUORESCENCE SPECTROMETER FOR ENVIRONMENTAL SCIENCE APPLICATIONS. <i>Instrumentation Science and Technology</i> , <b>2012</b> , 40, 603-617	1.4	24
90	Airborne particulate matter in vitro exposure induces cytoskeleton remodeling through activation of the ROCK-MYPT1-MLC pathway in A549 epithelial lung cells. <i>Toxicology Letters</i> , <b>2017</b> , 272, 29-37	4.4	23
89	Measurement of L X-ray production cross sections by 400-700 keV proton impact on rare earth elements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1993</b> , 75, 49-53	1.2	23
88	Absolute principal component analysis of atmospheric aerosols in Mexico City. <i>Environmental Science and Pollution Research</i> , <b>2000</b> , 7, 14-18	5.1	22
87	Uses of PIXE at low proton energies. <i>Applied Surface Science</i> , <b>1990</b> , 45, 155-166	6.7	21
86	PIXE analysis of atmospheric aerosols from three sites in Mexico City. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 157-160	1.2	20
85	Effect of atomic parameters on L-shell X-ray production cross-sections by proton impact with energies below 1 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 189, 21-26	1.2	20

84	Measurement of M-shell X-ray production induced by protons of 0.30.7 MeV on W, Au, Pb, Bi, Th and U. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 189, 27-32	1.2	20
83	Low energy PIXE: advantages, drawbacks, and applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 118, 346-351	1.2	20
82	Ice-nucleating particles in a coastal tropical site. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6147-61656.8	19	
81	The oxidative potential and biological effects induced by PM10 obtained in Mexico City and at a receptor site during the MILAGRO Campaign. <i>Environmental Pollution</i> , <b>2011</b> , 159, 3446-54	9.3	16
80	K X-ray emission induced by 12C4+ and 16O5+ ion impact on selected lanthanoids. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 1767-1771	1.2	15
79	Multiple ionization effects on total L-shell X-ray production cross sections by proton impact. <i>Radiation Physics and Chemistry</i> , <b>2004</b> , 69, 257-263	2.5	15
78	PIXE analysis of atmospheric aerosols in Mexico City. <i>X-Ray Spectrometry</i> , <b>2005</b> , 34, 315-319	0.9	15
77	SURVEY OF PIXE PROGRAMS ¶ 991. <i>International Journal of PIXE</i> , <b>1991</b> , 01, 297-310	0.1	15
76	Measurement of L X-ray production cross sections by impact of proton beams on Hf, Ir, and Tl. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 316, 113-122	1.2	14
75	Total elemental composition of soils contaminated with wastewater irrigation by combining IBA techniques. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 189, 158-162	1.2	14
74	Atmospheric PM Mercury in the Metropolitan Area of Mexico City. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2018</b> , 100, 588-592	2.7	12
73	L-shell X-ray production cross section measured by heavy ion impact on selected rare earth elements. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2004</b> , 262, 391-401	1.5	12
72	Characterization of pre-Hispanic pottery from Teotihuacan, Mexico, by a combined PIXE/RBS and XRD analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 150, 591-596	1.2	12
71	Recognition of the importance of geogenic sources in the content of metals in PM collected in the Mexico City Metropolitan Area. <i>Environmental Monitoring and Assessment</i> , <b>2018</b> , 190, 83	3.1	11
70	Ion beam analysis of pottery from Teotihuacan, Mexico. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2000</b> , 161-163, 762-768	1.2	11
69	Simultaneous PIXE and XRF elemental analysis of atmospheric aerosols. <i>Microchemical Journal</i> , <b>2015</b> , 120, 40-44	4.8	10
68	A comparison between pixe and rbs thin film thickness measurements in binary targets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1987</b> , 29, 521-526	1.2	10
67	African dust particles over the western Caribbean [Part I: Impact on air quality over the Yucatán Peninsula. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 239-253	6.8	10

66	A study of atmospheric aerosols from five sites in Mexico city using PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1998</b> , 136-138, 970-974	1.2	9
65	Measurement of K $\alpha$ radiative vacancy transfer probabilities in selected rare earth elements bombarded with 3.8 MeV protons. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 5075-5079	1.2	9
64	Studies of atmospheric aerosols in large urban areas using PIXE: an overview. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 109-110, 439-444	1.2	9
63	L-shell alignment of rare earths atoms induced by 12C, 16O and 19F ion impact. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 248, 47-53	1.2	8
62	PIXE depth profiling using variation of detection angle. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 249, 394-396	1.2	8
61	L-Shell X-ray production cross-sections by impact of 5.0 to 7.5 MeV 10B <sup>2+</sup> ions on selected rare earth elements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 289-293	1.2	8
60	The possible influence of volcanic emissions on atmospheric aerosols in the city of Colima, Mexico. <i>Environmental Pollution</i> , <b>2004</b> , 127, 271-9	9.3	8
59	K X-ray production by 12C <sup>4+</sup> ion impact on selected elements. <i>Radiation Physics and Chemistry</i> , <b>2005</b> , 73, 189-195	2.5	8
58	Ion beam analysis of ancient Mexican colored teeth from archaeological sites in Mexico City. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 150, 663-666	1.2	8
57	Spatial and temporal distribution of metals in PM during 2013: assessment of wind patterns to the impacts of geogenic and anthropogenic sources. <i>Environmental Monitoring and Assessment</i> , <b>2019</b> , 191, 165	3.1	8
56	PIXE and XRF analysis of atmospheric aerosols from a site in the West area of Mexico City. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 318, 135-138	1.2	7
55	The use of biomonitors and PIXE analysis in the study of air pollution in Mexico City. <i>X-Ray Spectrometry</i> , <b>2008</b> , 37, 156-162	0.9	7
54	The role of the ionization and stopping cross sections in PIXE thin film thickness measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1988</b> , 34, 362-368	1.2	7
53	X-Ray Fluorescence Analysis of Ground Coffee.. <i>Journal of Nuclear Physics Material Sciences Radiation and Applications</i> , <b>2017</b> , 5, 25-34	0.2	7
52	Updated database for L x-ray production by protons and extraction of L-subshell ionization cross sections from only L $\alpha$ and L $\beta$ -L $\gamma$ cross sections. <i>X-Ray Spectrometry</i> , <b>2011</b> , 40, 122-126	0.9	6
51	Total L-shell X-ray production cross sections by 400-700 keV proton impact for elements with 34 Applied Radiation and Isotopes, <b>2001</b> , 54, 455-9	1.7	6
50	L-subshell X-ray production by 400-700 keV protons in selected elements with 52 $\alpha$ $\gamma$ 1. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1994</b> , 85, 150-153	1.2	6
49	Characterization of a Si(Li) detector for PIXE analysis. <i>Journal of X-Ray Science and Technology</i> , <b>1994</b> , 4, 221-246	2.1	6

48	Application of PIXE and XRD to the Characterization of Clays. <i>Microchemical Journal</i> , <b>1995</b> , 52, 356-363	4.8	6
47	PIXE analysis of cave sediments, prehispanic paintings and obsidian cutting tools from Baja California Sur caves. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1993</b> , 75, 454-457	1.2	6
46	L-shell X-ray production cross sections of Ce, Nd, Sm, Eu, Gd, and Dy by impact of 14 N 2+ ions with energies between 7.0 MeV and 10.5 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 383, 89-92	1.2	6
45	L-shell X-ray production cross sections of selected lanthanoids by impact of 7Li <sup>2+</sup> ions with energies between 3.50 MeV and 5.25 MeV. <i>Radiation Physics and Chemistry</i> , <b>2013</b> , 83, 48-53	2.5	5
44	Trace element determination in tomato puree using particle induced X-ray emission and Rutherford backscattering. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2004</b> , 262, 355-362	1.5	5
43	The provenance of archaeological obsidian artifacts from Northern Chile determined by source-induced X-ray fluorescence. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2002</b> , 251, 15-19	1.5	5
42	Study of prehispanic wall paintings from Xochicalco, Mexico, using PIXE, XRD, SEM and FTIR. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>1999</b> , 240, 561-569	1.5	5
41	Pollution effects on stone benches of the Eagle Warriors Precinct at the Major Temple, Mexico City. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 150, 611-615	1.2	5
40	Analysis of diatomite sediments from a paleolake in central Mexico using PIXE, X-ray tomography and X-ray diffraction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1994</b> , 85, 886-889	1.2	5
39	RESOLUTION IN PIXE THIN FILM THICKNESS DETERMINATION. <i>International Journal of PIXE</i> , <b>1991</b> , 01, 259-270	0.1	5
38	Measurement report: Ice nucleating abilities of biomass burning, African dust, and sea spray aerosol particles over the Yucatán Peninsula. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4453-4470	6.8	5
37	ADABBOY: African Dust And Biomass Burning Over Yucatan. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, E1543-E1556	6.1	5
36	Universal empirical fit to L-shell X-ray production cross sections in ionization by protons. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 414, 184-189	1.2	4
35	K X-ray production by 3.4 MeV proton impact on selected lanthanoids. <i>Radiation Physics and Chemistry</i> , <b>2010</b> , 79, 1013-1017	2.5	4
34	Chemical effects in the stopping cross sections of protons in rare earth fluorides. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 254, 39-42	1.2	4
33	Present status of L-shell X-ray production cross sections by protons with energies below 1 MeV. <i>AIP Conference Proceedings</i> , <b>2001</b> ,	0	4
32	. <i>IEEE Transactions on Nuclear Science</i> , <b>1992</b> , 39, 25-28	1.7	4
31	Improvements to the X-ray Spectrometer at the Aerosol Laboratory, Instituto de Física, UNAM. <i>Journal of Nuclear Physics Material Sciences Radiation and Applications</i> , <b>2018</b> , 6, 57-60	0.2	4

30	Total L X-ray production cross sections of Sr, Y, Zr, Nb, and Mo induced by impact of 1.335 MeV to 1.835 MeV protons. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2020</b> , 477, 23-26	1.2	4
29	PIXE and XRF elemental analysis of breakfast cereals consumed in Mexico. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 318, 887-895	1.5	3
28	X-ray fluorescence analysis of Mexican varieties of dried chili peppers II: Commercial and home-grown specimens <b>2015</b> ,		3
27	PIXE and RBS elemental analyses of tree rings from Mexico Basin forests as a record of pollution. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	3
26	NdF3 thin films grown on carbon substrates and analyzed by RBS, PIXE, RNRA, SEM and X-ray diffraction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1993</b> , 79, 471-473	1.2	3
25	A new method for thin-film thickness measurement using PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1989</b> , 43, 203-209	1.2	3
24	Characterization of aerosol particles during a high pollution episode over Mexico City. <i>Scientific Reports</i> , <b>2021</b> , 11, 22533	4.9	3
23	Platinum concentration in PM2.5 in the Mexico City Metropolitan Area: relationship to meteorological conditions. <i>Human and Ecological Risk Assessment (HERA)</i> , <b>2020</b> , 26, 1164-1174	4.9	3
22	Ionoluminescence of partially-stabilized zirconia for thermal barrier coatings. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 261, 461-465	1.2	2
21	L-Shell X Ray Production Cross-sections by 12C4+ and 16O4+ Impact on Rare Earth Elements. <i>AIP Conference Proceedings</i> , <b>2003</b> ,	0	2
20	Influence of energy straggling on quantitative PIXE analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 109-110, 121-124	1.2	2
19	Quantification of indium in steel using PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1989</b> , 40-41, 627-629	1.2	2
18	Measurement of L X-ray production cross sections of Ce, Nd, Sm, Eu, Gd, and Dy by impact of 9Be2+ ions with energies in the interval 5.25 MeV to 6.75 MeV. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 434, 93-96	1.2	2
17	AMS 14C and Chemical Composition of Atmospheric Aerosols from Mexico City. <i>Radiocarbon</i> , <b>2017</b> , 59, 321-332	4.6	1
16	Temporal variation of suspended particles (TSP, PM10, and PM2.5) and chemical composition of PM10 in a site at the coast of the Gulf of Mexico. <i>Air Quality, Atmosphere and Health</i> , <b>2019</b> , 12, 1267-1277	5.6	1
15	Measurement of L <sub>α</sub> and L <sub>β</sub> fluorescence cross sections of La, Ce, Pr and Nd induced by photons of energies between 7.01 keV and 8.75 keV. <i>Radiation Physics and Chemistry</i> , <b>2016</b> , 123, 122-128	2.5	1
14	Urban particulate matter induces the expression of receptors for early and late adhesion molecules on human monocytes. <i>Environmental Research</i> , <b>2018</b> , 167, 283-291	7.9	1
13	Evaluation of L-shell X-ray production cross sections by impact of 4He+ ions <b>2013</b> ,		1

12	John L. Campbell. <i>X-Ray Spectrometry</i> , <b>2008</b> , 37, 94-94	0.9	1
11	Characterization of a Si(Li) Detector for PIXE Analysis. <i>Journal of X-Ray Science and Technology</i> , <b>1994</b> , 4, 221-46	2.1	1
10	Elemental characterization and risk assessment of indoor aerosols in an electrostatic particle accelerator laboratory. <i>Environmental Pollutants and Bioavailability</i> , <b>2021</b> , 33, 334-346	2.8	1
9	Perspectives for low energy reactions measurements at the new LEMA beam-line. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1643, 012029	0.3	1
8	X-Ray fluorescence analysis of Mexican varieties of dried chili peppers. <i>Journal of Food Composition and Analysis</i> , <b>2020</b> , 93, 103592	4.1	1
7	Analysis of Atmospheric Aerosols in Large Urban Areas with Particle Induced X-ray Emission <b>2000</b> , 405-413		0
6	How do Uncertainties in Atomic Parameters Influence Theoretical Predictions of X-Ray Production Cross Sections By Proton Impact?. <i>Journal of Nuclear Physics Material Sciences Radiation and Applications</i> , <b>2020</b> , 7, 71-76	0.2	0
5	New data base for $L_{\alpha}$ X-ray production by protons, new empirical fits, extraction of L-subshell ionization cross sections with various atomic parameters, and their comparison with the ECPSR theory and its modifications: a recommendation for reliable choice of atomic parameters	0.3	
4	Effects of perturbations on diatom assemblages in Tlaxcala Paleolake, Mexico. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , <b>1997</b> , 26, 846-851		
3	Origin of laminations in Tlaxcala Paleolake, Mexico. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , <b>1997</b> , 26, 838-841		
2	Inter-annual variability of ice nucleating particles in Mexico city. <i>Atmospheric Environment</i> , <b>2022</b> , 273, 118964	5.3	
1	Background considerations in the analysis of PIXE spectra by Artificial Neural Systems.. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 720, 012053	0.3	