

# Fãbio L Melquiades

## List of Publications by Year in descending order

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63  
papers

774  
citations

567281

15  
h-index

580821

25  
g-index

63  
all docs

63  
docs citations

63  
times ranked

848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of XRF and field portable XRF for environmental analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 533-541.	1.5	108
2	Titanium dioxide determination in sunscreen by energy dispersive X-ray fluorescence methodology. <i>Analytica Chimica Acta</i> , 2008, 613, 135-143.	5.4	49
3	Correction for the effect of soil moisture on <i>in situ</i> XRF analysis using low-energy background. <i>X-Ray Spectrometry</i> , 2012, 41, 304-307.	1.4	45
4	Effect of X-Ray Tube Configuration on Measurement of Key Soil Fertility Attributes with XRF. <i>Remote Sensing</i> , 2020, 12, 963.	4.0	35
5	Factorial design for Fe, Cu, Zn, Se and Pb preconcentration optimization with APDC and analysis with a portable X-ray fluorescence system. <i>Talanta</i> , 2007, 73, 121-126.	5.5	33
6	Portable XRF and principal component analysis for bill characterization in forensic science. <i>Applied Radiation and Isotopes</i> , 2014, 85, 92-95.	1.5	31
7	Quick analysis of organic matter in soil by energy-dispersive X-ray fluorescence and multivariate analysis. <i>Applied Radiation and Isotopes</i> , 2017, 130, 13-20.	1.5	26
8	Direct Determination of Sugar Cane Quality Parameters by X-ray Spectrometry and Multivariate Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10755-10761.	5.2	25
9	Thickness determination of gold layer on pre-Columbian objects and a gilding frame, combining pXRF and PLS regression. <i>X-Ray Spectrometry</i> , 2016, 45, 344-351.	1.4	25
10	Characterization of activated carbons from different sources and the simultaneous adsorption of Cu, Cr, and Zn from metallurgic effluent. <i>Separation and Purification Technology</i> , 2014, 122, 421-430.	7.9	24
11	Discrimination of land-use types in a catchment by energy dispersive X-ray fluorescence and principal component analysis. <i>Applied Radiation and Isotopes</i> , 2013, 77, 27-31.	1.5	22
12	EDXRF spectral data combined with PLSR to determine some soil fertility indicators. <i>Microchemical Journal</i> , 2020, 152, 104275.	4.5	22
13	Assessing Soil Key Fertility Attributes Using a Portable X-ray Fluorescence: A Simple Method to Overcome Matrix Effect. <i>Agronomy</i> , 2020, 10, 787.	3.0	20
14	Laser-Induced Breakdown Spectroscopy (LIBS) for tropical soil fertility analysis. <i>Soil and Tillage Research</i> , 2022, 216, 105250.	5.6	19
15	Quantification of metals in river water using a portable EDXRF system. <i>Applied Radiation and Isotopes</i> , 2011, 69, 327-333.	1.5	18
16	Evaluation of pre-processing and variable selection on energy dispersive X-ray fluorescence spectral data with partial least square regression: A case of study for soil organic carbon prediction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 175, 106016.	2.9	17
17	Characterization of Brazilian banknotes using portable X-ray fluorescence and Raman spectroscopy. <i>Forensic Science International</i> , 2019, 302, 109872.	2.2	16
18	Moisture profile measurements of concrete samples in vertical water flow by gamma ray transmission method. <i>Radiation Physics and Chemistry</i> , 2001, 61, 567-569.	2.8	15

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19	Fast and Direct Na and K Determination in Table, Marine, and Low-Sodium Salts by X-ray Fluorescence and Chemometrics. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 2406-2412.	5.2	15
20	Radiation of powdered milk produced at Londrina, PR, Brazil. <i>Radiation Physics and Chemistry</i> , 2001, 61, 691-692.	2.8	14
21	X-ray fluorescence and gamma-ray spectrometry combined with multivariate analysis for topographic studies in agricultural soil. <i>Applied Radiation and Isotopes</i> , 2015, 95, 63-71.	1.5	13
22	Portable EDXRF for Quality Assurance of Cosmetics. <i>Cosmetics</i> , 2015, 2, 277-285.	3.3	12
23	Improved prediction of soil properties with multi-target stacked generalisation on EDXRF spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 209, 104231.	3.5	12
24	Preparation and characterization of composites from plastic waste and sugar cane fiber. <i>Polimeros</i> , 2018, 28, 147-154.	0.7	11
25	Determination of the polymeric thin film thickness by energy dispersive X-ray fluorescence and multivariate analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105818.	2.9	11
26	Evaluation of metal release from battery and electronic components in soil using SR-EDXRF and EDXRF. <i>X-Ray Spectrometry</i> , 2017, 46, 512-521.	1.4	10
27	Self-absorption correction for gamma spectrometry of powdered milk samples using Marinelli beaker. <i>Applied Radiation and Isotopes</i> , 2001, 55, 697-700.	1.5	9
28	Preliminary Results: Energy Dispersive X-Ray Fluorescence and Partial Least Squares Regression for Organic Matter Determination in Soil. <i>Spectroscopy Letters</i> , 2015, 48, 286-289.	1.0	9
29	X-Ray Fluorescence to Estimate the Maximum Temperature Reached at Soil Surface during Experimental Slash-and-Burn Fires. <i>Journal of Environmental Quality</i> , 2016, 45, 1104-1109.	2.0	9
30	Smectitic clays enriched with ferric ions for the rapid removal of anionic dyes in aqueous media. <i>Clay Minerals</i> , 2020, 55, 12-23.	0.6	9
31	Low-cost spectroscopic devices with multivariate analysis applied to milk authenticity. <i>Microchemical Journal</i> , 2022, 181, 107746.	4.5	9
32	Identification of sulphur in nail polish by pattern recognition methods combined with portable energy dispersive X-ray fluorescence spectral data. <i>Analytical Methods</i> , 2016, 8, 3920-3926.	2.7	7
33	Preparation, Characterization of Bentonite Clay/Activated Charcoal Composites and 2 <sup>3</sup> Factorial Design Application in Adsorption Studies of Methylene Blue Dye. <i>Revista Virtual De Química</i> , 2014, 6, .	0.4	7
34	Granulometry and Moisture Influence for In Situ Soil Analysis by Portable EDXRF. , 2011, , .		5
35	Análise Multielementar de solos: uma proposta envolvendo equipamento portátil de fluorescência de raios X. <i>Semina: Ciências Exatas E Tecnológicas</i> , 2014, 35, 207.	0.1	5
36	Nuclear physics experiments with low cost instrumentation. <i>Physics Education</i> , 2016, 51, 065013.	0.5	5

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37	Determination of metal content in industrial powder ink and paint thickness over steel plates using X-Ray Fluorescence. Applied Radiation and Isotopes, 2019, 150, 168-174.	1.5	5
38	X-ray fluorescence spectroscopy and Monte Carlo simulation for quantitative characterization of Bolivian <sc>pre-Hispanic</sc> golden artefacts. X-Ray Spectrometry, 2021, 50, 53-67.	1.4	5
39	Chemical characterization of particulate matter suspended in the atmosphere by energy dispersive X-ray fluorescence (EDXRF). Journal of Radioanalytical and Nuclear Chemistry, 2006, 270, 43-46.	1.5	4
40	Quantification of Organic Matter in Agricultural Soils from the Central Region of Paraná State, Brazil. Communications in Soil Science and Plant Analysis, 2017, 48, 2288-2293.	1.4	4
41	Non-destructive analytical techniques for the evaluation of cleaning and protection processes on white marble surfaces. Journal of Cultural Heritage, 2019, 37, 54-62.	3.3	4
42	Comparison between energy dispersive X-ray fluorescence spectral data and elemental data for soil attributes modelling. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 185, 106303.	2.9	4
43	Method for Sediment Texture Characterization Using Spectroscopy Techniques and Multivariate Analysis. Revista Virtual De Quimica, 2014, 6, .	0.4	4
44	Modeling the soil burn effect for temperature prediction by energy dispersive X ray Fluorescence in an haplic cambisol soil. Applied Radiation and Isotopes, 2019, 150, 26-30.	1.5	3
45	Spectroscopic based partial least-squares models to estimate soil features. Microchemical Journal, 2022, 180, 107617.	4.5	3
46	<sup>137</sup> Cs profiles in erosion plots with different soil cultivation. Journal of Radioanalytical and Nuclear Chemistry, 2006, 269, 761-765.	1.5	2
47	Coupling soil transfer from hillslope to riparian zone through natural fingerprint in a catchment with tobacco crop. Journal of Soils and Sediments, 2019, 19, 1928-1936.	3.0	2
48	Influence of soil sample grain size on energy dispersive X-ray fluorescence analysis: a comparative study case with three spectrometers. Spectroscopy Letters, 2021, 54, 560-570.	1.0	2
49	Discriminação de marcadores de proveniência de sedimento em bacia rural por meio de EDXRF. Revista Brasileira De Geomorfologia, 2010, 10, .	0.2	2
50	Synthesis, Characterization and Electrochemical Study of Hybrid Materials Based on Polyaniline with Fe <sub>3</sub> O <sub>4</sub> . Revista Virtual De Quimica, 2017, 9, 2494-2505.	0.4	2
51	Monitoramento de metais nos lagos igapó em Londrina, PR, usando a metodologia de EDXRF.. Semina: Ciências Exatas E Tecnológicas, 2008, 29, 129.	0.1	2
52	Avaliação de fontes de carbono e nitrogênio na produção de fumonisina B1 por Fusarium verticillioides em meio líquido definido. Semina: Ciências Agrárias, 2009, 30, 647.	0.3	2
53	Tracers Discrimination of Sediment Provenience in Rural Catchment through EDXRF. AIP Conference Proceedings, 2011, , .	0.4	1
54	Práticas experimentais no ensino de física nuclear utilizando material de baixo custo. Caderno Brasileiro De Ensino De Física, 2017, 34, 236.	0.1	1

#	ARTICLE	IF	CITATIONS
55	Foreword: XXXV Brazilian Workshop on Nuclear Physics. , 2013, , .		0
56	X-ray fluorescence and multivariate analysis for sucrose quantification in sugarcane. , 2013, , .		0
57	Analyses of lake sediments from Itaipu-dam using x-ray fluorescence. , 2013, , .		0
58	Portable EDXRF for quantification of metals in soils: Univariate calibration versus multivariate calibration. , 2013, , .		0
59	Energy dispersive X-ray fluorescence (EDXRF) equipment calibration for multielement analysis of soil and rock samples. , 2014, , .		0
60	Electro-oxycogulation Efficiency for the Treatment of Domestic Effluents. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	0
61	Nondestructive Determination of Allergenic and Toxic Elements in Jewelry: a Comparison of Benchtop and Portable Energy Dispersive X-Ray Fluorescence Spectrometers. Journal of the Brazilian Chemical Society, 2014, , .	0.6	0
62	Portable EDXRF and Principal Component Analysis for inorganic element determination and provenance of eye shadows. Semina: Ciências Exatas E Tecnológicas, 2019, 40, 135.	0.1	0
63	Non-destructive analysis of a pre-hispanic basketry collection from La Paz, Bolivia. Semina: Ciências Exatas E Tecnológicas, 2020, 41, 195.	0.1	0