

Fãbio L Melquiades

List of Publications by Year in descending order

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63
papers

774
citations

566801

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580395

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63
all docs

63
docs citations

63
times ranked

848
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Laser-Induced Breakdown Spectroscopy (LIBS) for tropical soil fertility analysis. <i>Soil and Tillage Research</i> , 2022, 216, 105250. | 2.6 | 19 |
| 2 | Spectroscopic based partial least-squares models to estimate soil features. <i>Microchemical Journal</i> , 2022, 180, 107617. | 2.3 | 3 |
| 3 | Low-cost spectroscopic devices with multivariate analysis applied to milk authenticity. <i>Microchemical Journal</i> , 2022, 181, 107746. | 2.3 | 9 |
| 4 | 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. | 1.5 | 17 |
| 5 | X-ray fluorescence spectroscopy and Monte Carlo simulation for quantitative characterization of Bolivian pre-Hispanic golden artefacts. <i>X-Ray Spectrometry</i> , 2021, 50, 53-67. | 0.9 | 5 |
| 6 | Improved prediction of soil properties with multi-target stacked generalisation on EDXRF spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 209, 104231. | 1.8 | 12 |
| 7 | Influence of soil sample grain size on energy dispersive X-ray fluorescence analysis: a comparative study case with three spectrometers. <i>Spectroscopy Letters</i> , 2021, 54, 560-570. | 0.5 | 2 |
| 8 | Comparison between energy dispersive X-ray fluorescence spectral data and elemental data for soil attributes modelling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 185, 106303. | 1.5 | 4 |
| 9 | EDXRF spectral data combined with PLSR to determine some soil fertility indicators. <i>Microchemical Journal</i> , 2020, 152, 104275. | 2.3 | 22 |
| 10 | Electro-oxycoagulation Efficiency for the Treatment of Domestic Effluents. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1. | 1.1 | 0 |
| 11 | Effect of X-Ray Tube Configuration on Measurement of Key Soil Fertility Attributes with XRF. <i>Remote Sensing</i> , 2020, 12, 963. | 1.8 | 35 |
| 12 | 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. | 1.5 | 11 |
| 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. | 1.3 | 20 |
| 14 | Smectitic clays enriched with ferric ions for the rapid removal of anionic dyes in aqueous media. <i>Clay Minerals</i> , 2020, 55, 12-23. | 0.2 | 9 |
| 15 | Non-destructive analysis of a pre-hispanic basketry collection from La Paz, Bolivia. <i>Semina: CiÃncias Exatas E TecnolÃgicas</i> , 2020, 41, 195. | 0.3 | 0 |
| 16 | Characterization of Brazilian banknotes using portable X-ray fluorescence and Raman spectroscopy. <i>Forensic Science International</i> , 2019, 302, 109872. | 1.3 | 16 |
| 17 | Determination of metal content in industrial powder ink and paint thickness over steel plates using X-Ray Fluorescence. <i>Applied Radiation and Isotopes</i> , 2019, 150, 168-174. | 0.7 | 5 |
| 18 | Modeling the soil burn effect for temperature prediction by energy dispersive X ray Fluorescence in an haplic cambisol soil. <i>Applied Radiation and Isotopes</i> , 2019, 150, 26-30. | 0.7 | 3 |

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| 19 | Non-destructive analytical techniques for the evaluation of cleaning and protection processes on white marble surfaces. <i>Journal of Cultural Heritage</i> , 2019, 37, 54-62. | 1.5 | 4 |
| 20 | Coupling soil transfer from hillslope to riparian zone through natural fingerprint in a catchment with tobacco crop. <i>Journal of Soils and Sediments</i> , 2019, 19, 1928-1936. | 1.5 | 2 |
| 21 | Portable EDXRF and Principal Component Analysis for inorganic element determination and provenance of eye shadows. <i>Semina: Ciências Exatas E Tecnológicas</i> , 2019, 40, 135. | 0.3 | 0 |
| 22 | Preparation and characterization of composites from plastic waste and sugar cane fiber. <i>Polimeros</i> , 2018, 28, 147-154. | 0.2 | 11 |
| 23 | 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. | 0.9 | 10 |
| 24 | 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. | 0.7 | 26 |
| 25 | Quantification of Organic Matter in Agricultural Soils from the Central Region of Paraná State, Brazil. <i>Communications in Soil Science and Plant Analysis</i> , 2017, 48, 2288-2293. | 0.6 | 4 |
| 26 | Práticas experimentais no ensino de física nuclear utilizando material de baixo custo. <i>Caderno Brasileiro De Ensino De Física</i> , 2017, 34, 236. | 0.0 | 1 |
| 27 | Synthesis, Characterization and Electrochemical Study of Hybrid Materials Based on Polyaniline with Fe ₃ O ₄ . <i>Revista Virtual De Quimica</i> , 2017, 9, 2494-2505. | 0.1 | 2 |
| 28 | 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. | 1.3 | 7 |
| 29 | Nuclear physics experiments with low cost instrumentation. <i>Physics Education</i> , 2016, 51, 065013. | 0.3 | 5 |
| 30 | 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. | 0.9 | 25 |
| 31 | 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. | 1.0 | 9 |
| 32 | Portable EDXRF for Quality Assurance of Cosmetics. <i>Cosmetics</i> , 2015, 2, 277-285. | 1.5 | 12 |
| 33 | 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. | 2.4 | 15 |
| 34 | 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. | 0.5 | 9 |
| 35 | 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. | 0.7 | 13 |
| 36 | Análise Multielementar de solos: uma proposta envolvendo equipamento portátil de fluorescência de raios X. <i>Semina: Ciências Exatas E Tecnológicas</i> , 2014, 35, 207. | 0.3 | 5 |

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| 37 | Energy dispersive X-ray fluorescence (EDXRF) equipment calibration for multielement analysis of soil and rock samples. , 2014, , . | | 0 |
| 38 | Portable XRF and principal component analysis for bill characterization in forensic science. Applied Radiation and Isotopes, 2014, 85, 92-95. | 0.7 | 31 |
| 39 | Characterization of activated carbons from different sources and the simultaneous adsorption of Cu, Cr, and Zn from metallurgic effluent. Separation and Purification Technology, 2014, 122, 421-430. | 3.9 | 24 |
| 40 | Preparation, Characterization of Bentonite Clay/Activated Charcoal Composites and 2 ³ Factorial Design Application in Adsorption Studies of Methylene Blue Dye. Revista Virtual De Quimica, 2014, 6, . | 0.1 | 7 |
| 41 | Method for Sediment Texture Characterization Using Spectroscopy Techniques and Multivariate Analysis. Revista Virtual De Quimica, 2014, 6, . | 0.1 | 4 |
| 42 | 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 |
| 43 | Discrimination of land-use types in a catchment by energy dispersive X-ray fluorescence and principal component analysis. Applied Radiation and Isotopes, 2013, 77, 27-31. | 0.7 | 22 |
| 44 | Foreword: XXXV Brazilian Workshop on Nuclear Physics. , 2013, , . | | 0 |
| 45 | X-ray fluorescence and multivariate analysis for sucrose quantification in sugarcane. , 2013, , . | | 0 |
| 46 | Analyses of lake sediments from Itaipu dam using x-ray fluorescence. , 2013, , . | | 0 |
| 47 | Portable EDXRF for quantification of metals in soils: Univariate calibration versus multivariate calibration. , 2013, , . | | 0 |
| 48 | Direct Determination of Sugar Cane Quality Parameters by X-ray Spectrometry and Multivariate Analysis. Journal of Agricultural and Food Chemistry, 2012, 60, 10755-10761. | 2.4 | 25 |
| 49 | Correction for the effect of soil moisture on <i>in situ</i> XRF analysis using low energy background. X-Ray Spectrometry, 2012, 41, 304-307. | 0.9 | 45 |
| 50 | Tracers Discrimination of Sediment Provenience in Rural Catchment through EDXRF. AIP Conference Proceedings, 2011, , . | 0.3 | 1 |
| 51 | Granulometry and Moisture Influence for In Situ Soil Analysis by Portable EDXRF. , 2011, , . | | 5 |
| 52 | Quantification of metals in river water using a portable EDXRF system. Applied Radiation and Isotopes, 2011, 69, 327-333. | 0.7 | 18 |
| 53 | Discriminação de marcadores de proveniência de sedimento em bacia rural por meio de EDXRF. Revista Brasileira De Geomorfologia, 2010, 10, . | 0.1 | 2 |
| 54 | 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. | 0.1 | 2 |

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|----|--|-----|-----------|
| 55 | Titanium dioxide determination in sunscreen by energy dispersive X-ray fluorescence methodology. <i>Analytica Chimica Acta</i> , 2008, 613, 135-143. | 2.6 | 49 |
| 56 | Monitoramento de metais nos lagos igapÃ³ em Londrina, PR, usando a metodologia de EDXRF.. <i>Semina: CiÃªncias Exatas E TecnolÃ³gicas</i> , 2008, 29, 129. | 0.3 | 2 |
| 57 | 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. | 2.9 | 33 |
| 58 | ¹³⁷ Cs profiles in erosion plots with different soil cultivation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 269, 761-765. | 0.7 | 2 |
| 59 | Chemical characterization of particulate matter suspended in the atmosphere by energy dispersive X-ray fluorescence (EDXRF). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 270, 43-46. | 0.7 | 4 |
| 60 | Application of XRF and field portable XRF for environmental analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 533-541. | 0.7 | 108 |
| 61 | 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. | 1.4 | 15 |
| 62 | Radiation of powdered milk produced at Londrina, PR, Brazil. <i>Radiation Physics and Chemistry</i> , 2001, 61, 691-692. | 1.4 | 14 |
| 63 | Self-absorption correction for gamma spectrometry of powdered milk samples using Marinelli beaker. <i>Applied Radiation and Isotopes</i> , 2001, 55, 697-700. | 0.7 | 9 |