

# Francisco JosÃ© Krug

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,630  
citations

236925

25  
h-index

315739

38  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced breakdown spectroscopy for analysis of plant materials: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 71-72, 3-13.	2.9	156
2	Comparison of univariate and multivariate calibration for the determination of micronutrients in pellets of plant materials by laser induced breakdown spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 66-74.	2.9	114
3	Evaluation of laser induced breakdown spectroscopy for the determination of micronutrients in plant materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 369-377.	2.9	104
4	Currents on Ultrasound-Assisted Extraction for Sample Preparation and Spectroscopic Analytes Determination. <i>Applied Spectroscopy Reviews</i> , 2006, 41, 305-321.	6.7	71
5	Evaluation of laser induced breakdown spectroscopy for the determination of macronutrients in plant materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1151-1158.	2.9	70
6	Recent advances in LIBS and XRF for the analysis of plants. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 919-944.	3.0	67
7	In vivo studies on lead content of deciduous teeth superficial enamel of preschool children. <i>Science of the Total Environment</i> , 2004, 320, 25-35.	8.0	66
8	Optimization and validation of a LIBS method for the determination of macro and micronutrients in sugar cane leaves. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1453.	3.0	64
9	Evaluation of laser induced breakdown spectroscopy for cadmium determination in soils. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1073-1078.	2.9	53
10	Determination of inorganic nutrients in wheat flour by laser-induced breakdown spectroscopy and energy dispersive X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 100, 129-136.	2.9	53
11	Evaluation of grinding methods for pellets preparation aiming at the analysis of plant materials by laser induced breakdown spectrometry. <i>Talanta</i> , 2011, 85, 1744-1750.	5.5	50
12	Simultaneous optimization by neuro-genetic approach for analysis of plant materials by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 565-572.	2.9	49
13	Lead contents in the surface enamel of deciduous teeth sampled in vivo from children in uncontaminated and in lead-contaminated areas. <i>Environmental Research</i> , 2007, 104, 337-345.	7.5	46
14	Direct determination of the nutrient profile in plant materials by femtosecond laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 876, 26-38.	5.4	46
15	Cadmium and lead determination in foods by beam injection flame furnace atomic absorption spectrometry after ultrasound-assisted sample preparation. <i>Analytica Chimica Acta</i> , 2004, 512, 329-337.	5.4	44
16	A novel strategy for preparing calibration standards for the analysis of plant materials by laser-induced breakdown spectroscopy: A case study with pellets of sugar cane leaves. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 86, 137-141.	2.9	44
17	Influence of particle size distribution on the analysis of pellets of plant materials by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 105, 130-135.	2.9	44
18	Effects of laser focusing and fluence on the analysis of pellets of plant materials by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 162-168.	2.9	43

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19	Comparison of analytical performance of benchtop and handheld energy dispersive X-ray fluorescence systems for the direct analysis of plant materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1667-1674.	3.0	41
20	Evaluation of Femtosecond Laser-Induced Breakdown Spectroscopy for Analysis of Animal Tissues. <i>Applied Spectroscopy</i> , 2008, 62, 1137-1143.	2.2	40
21	Evaluation of laser induced breakdown spectrometry for the determination of macro and micronutrients in pharmaceutical tablets. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 803.	3.0	39
22	Cryogenic sample grinding for copper, lead and manganese determination in human teeth by slurry sampling GFAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 939-945.	3.0	37
23	Multipurpose flow injection system. Part 1. Programmable dilutions and standard additions for plant digests analysis by inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 865-868.	3.0	35
24	Determination of Cd, Cr and Pb in phosphate fertilizers by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 97, 42-48.	2.9	35
25	Determination of silicon in plant materials by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 83-84, 61-65.	2.9	32
26	Direct analysis of plant leaves by EDXRF and LIBS: microsampling strategies and cross-validation. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1646-1654.	3.0	26
27	Melted Paraffin Wax as an Innovative Liquid and Solid Extractant for Elemental Analysis by Laser-Induced Breakdown Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 2807-2815.	6.5	23
28	Simplifying Sample Preparation for Soil Fertility Analysis by X-ray Fluorescence Spectrometry. <i>Sensors</i> , 2019, 19, 5066.	3.8	23
29	Direct determination of lead in sweet fruit-flavored powder drinks by electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998, 53, 601-611.	2.9	21
30	Accumulation and spatial distribution of arsenic and phosphorus in the fern <i>Pityrogramma calomelanos</i> evaluated by micro X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2375-2383.	3.0	18
31	Flow injection calibration of inductively coupled plasma atomic emission spectrometry using the generalised standard additions method. <i>Journal of Analytical Atomic Spectrometry</i> , 1988, 3, 673-678.	3.0	17
32	Multi-Sensor Approach for Tropical Soil Fertility Analysis: Comparison of Individual and Combined Performance of VNIR, XRF, and LIBS Spectroscopies. <i>Agronomy</i> , 2021, 11, 1028.	3.0	15
33	A chemometric approach exploring Derringer's desirability function for the simultaneous determination of Cd, Cr, Ni and Pb in micronutrient fertilizers by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 154, 25-32.	2.9	12
34	Laser ablation inductively coupled plasma optical emission spectrometry for analysis of pellets of plant materials. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 94-95, 27-33.	2.9	11
35	Mercury Amalgam Diffusion in Human Teeth Probed Using Femtosecond LIBS. <i>Applied Spectroscopy</i> , 2017, 71, 659-669.	2.2	9
36	Spectral data of tropical soils using dry-chemistry techniques (VNIR, XRF, and LIBS): A dataset for soil fertility prediction. <i>Data in Brief</i> , 2022, 41, 108004.	1.0	6

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37	Evaluation of electrodeposited tungsten chemical modifier for direct determination of chromium in urine by ETAAS. <i>Microchemical Journal</i> , 2004, 78, 7-13.	4.5	4
38	Evaluation of W-Rh permanent modifier for lead determination in sugar by graphite furnace atomic absorption spectrometry. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2007, 1, 176-182.	1.5	2