Eva Margui

List of Publications by Citations

98 papers	2,402 citations	28 h-index	45 g-index
102 ext. papers	2,694 ext. citations	4.9 avg, IF	5.23 L-index

#	Paper	IF	Citations
98	Green approach for ultratrace determination of divalent metal ions and arsenic species using total-reflection X-ray fluorescence spectrometry and mercapto-modified graphene oxide nanosheets as a novel adsorbent. *Analytical Chemistry*, **2015**, 87, 3535-42	7.8	145
97	Application of X-ray fluorescence spectrometry to determination and quantitation of metals in vegetal material. *TrAC - Trends in Analytical Chemistry*, **2009**, 28, 362-372	14.6	127
96	Quantification of trace arsenic in soils by field-portable X-ray fluorescence spectrometry: considerations for sample preparation and measurement conditions. *Journal of Hazardous Materials* , **2013**, 262, 1213-22	12.8	108
95	Comparison of three-stage sequential extraction and toxicity characteristic leaching tests to evaluate metal mobility in mining wastes. *Analytica Chimica Acta*, **2004**, 524, 151-159	6.6	97
94	Dispersive micro solid-phase extraction using multiwalled carbon nanotubes combined with portable total-reflection X-ray fluorescence spectrometry for the determination of trace amounts of Pb and Cd in water samples. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 736	3.7	86
93	Trace and ultratrace analysis of liquid samples by X-ray fluorescence spectrometry. *TrAC - Trends in Analytical Chemistry*, **2014**, 53, 73-83	14.6	75
92	Assessment of metal availability to vegetation (Betula pendula) in Pb-Zn ore concentrate residues with different features. *Environmental Pollution*, **2007**, 145, 179-84	9.3	68
91	Analytical possibilities of total reflection X-ray spectrometry (TXRF) for trace selenium determination in soils. *Analytical Chemistry*, **2010**, 82, 7744-51	7.8	67
90	Preconcentration Methods for the Analysis of Liquid Samples by X-Ray Fluorescence Techniques. *Applied Spectroscopy Reviews*, **2010**, 45, 179-205	4.5	62
89	Multielemental fast analysis of vegetation samples by wavelength dispersive X-ray fluorescence spectrometry: Possibilities and drawbacks. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 1363-1372	3.1	60
88	Comparison of EDXRF and ICP-OES after microwave digestion for element determination in plant specimens from an abandoned mining area. *Analytica Chimica Acta*, **2005**, 549, 197-204	6.6	55
87	Determination of trace amounts of hexavalent chromium in drinking waters by dispersive microsolid-phase extraction using modified multiwalled carbon nanotubes combined with total reflection X-ray fluorescence spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 107, 170-177	3.1	53
86	Liquid phase microextraction strategies combined with total reflection X-ray spectrometry for the determination of low amounts of inorganic antimony species in waters. *Analytica Chimica Acta*, **2013**, 786, 8-15	6.6	51
85	Analytical approaches for Hg determination in wastewater samples by means of total reflection X-ray fluorescence spectrometry. *Talanta*, **2010**, 82, 821-7	6.2	51
84	Analysis of inlet and outlet industrial wastewater effluents by means of benchtop total reflection X-ray fluorescence spectrometry. *Chemosphere*, **2010**, 80, 263-70	8.4	50
83	Determination of cadmium at ultratrace levels in environmental water samples by means of total reflection X-ray spectrometry after dispersive liquid□liquid microextraction. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 266-273	3.7	44
82	Heavy metalsVcontent of automotive shredder residues (ASR): evaluation of environmental risk. *Environmental Pollution*, **2008**, 153, 476-82	9.3	43

81	Multi-element analysis of vegetal foodstuff by means of low power total reflection X-ray fluorescence (TXRF) spectrometry. *Food Chemistry*, **2017**, 218, 348-355	8.5	41
80	Determination of selenium by X-ray fluorescence spectrometry using dispersive solid-phase microextraction with multiwalled carbon nanotubes as solid sorbent. *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 1688	3.7	40
79	Cr speciation in water samples by dispersive liquid–liquid microextraction combined with total reflection X-ray fluorescence spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 115, 46-51	3.1	36
78	Analytical capabilities of laboratory, benchtop and handheld X-ray fluorescence systems for detection of metals in aqueous samples pre-concentrated with solid-phase extraction disks. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2012**, 67, 17-23	3.1	35
77	Long-term use of biosolids as organic fertilizers in agricultural soils: potentially toxic elements occurrence and mobility. *Environmental Science and Pollution Research*, **2016**, 23, 4454-64	5.1	33
76	Possibilities of low-power X-ray fluorescence spectrometry methods for rapid multielemental analysis and imaging of vegetal foodstuffs. *Journal of Food Composition and Analysis*, **2016**, 50, 1-9	4.1	32
75	Extractability and crop transfer of potentially toxic elements from mediterranean agricultural soils following long-term sewage sludge applications as a fertilizer replacement to barley and maize crops. *Waste Management*, **2018**, 75, 312-318	8.6	30
74	Determination of palladium, platinum and rhodium in used automobile catalysts and active pharmaceutical ingredients using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. *Spectrochimica Acta, Part B: Atomic*	3.1	29
73	Method for the determination of Pd-catalyst residues in active pharmaceutical ingredients by means of high-energy polarized-beam energy dispersive X-ray fluorescence. *Analytical Chemistry*, **2009**, 81, 1404-10	7.8	29
72	High-energy polarized-beam EDXRF for trace metal analysis of vegetation samples in environmental studies. *X-Ray Spectrometry*, **2006**, 35, 169-177	0.9	29
71	X-Ray Fluorescence Spectrometry and Related Techniques **2013**,		29
70	First Total Reflection X-Ray Fluorescence round-robin test of water samples: Preliminary results. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2014**, 101, 6-14	3.1	28
69	High-energy polarized-beam energy-dispersive X-ray fluorescence analysis combined with activated thin layers for cadmium determination at trace levels in complex environmental liquid samples. *Analytical Chemistry*, **2008**, 80, 2357-64	7.8	28
68	Uptake, translocation and ligand of silver in Lactuca sativa exposed to silver nanoparticles of different size, coatings and concentration. *Journal of Hazardous Materials*, **2020**, 384, 121201	12.8	28
67	Determination and speciation of ultratrace arsenic and chromium species using aluminium oxide supported on graphene oxide. *Talanta*, **2018**, 185, 264-274	6.2	27
66	Determination of metal residues in active pharmaceutical ingredients according to European current legislation by using X-ray fluorescence spectrometry. *Journal of Analytical Atomic Spectrometry*, **2009**, 24, 1253	3.7	25
65	Bromine and bromide content in soils: Analytical approach from total reflection X-ray fluorescence spectrometry. *Chemosphere*, **2016**, 156, 294-301	8.4	25
64	Dispersive micro solid-phase extraction using multiwalled carbon nanotubes for simultaneous determination of trace metal ions by energy-dispersive X-ray fluorescence spectrometry. *Applied Spectroscopy*, **2013**, 67, 204-9	3.1	24

63	Analytical performance of benchtop total reflection X-ray fluorescence instrumentation for multielemental analysis of wine samples. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 120, 37-43	3.1	23
62	Ceria nanoparticles deposited on graphene nanosheets for adsorption of copper(II) and lead(II) ions and of anionic species of arsenic and selenium. *Mikrochimica Acta*, **2018**, 185, 264	5.8	21
61	Determination of platinum group metal catalyst residues in active pharmaceutical ingredients by means of total reflection X-ray spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2013**, 86, 50-54	3.1	21
60	Lead isotope ratio measurements by ICP-QMS to identify metal accumulation in vegetation specimens growing in mining environments. *Science of the Total Environment*, **2006**, 367, 988-98	10.2	21
59	Analytical possibilities of different X-ray fluorescence systems for determination of trace elements in aqueous samples pre-concentrated with carbon nanotubes. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2013**, 88, 192-197	3.1	20
58	Determination of water-soluble hexavalent chromium in clinker samples by wavelength-dispersive X-ray fluorescence spectrometry after concentration in activated layers. *Applied Spectroscopy*, **2010** , 64, 547-51	3.1	20
57	Improvement approaches for the determination of Cr(VI), Cd(II), Pd(II) and Pt(IV) contained in aqueous samples by conventional XRF instrumentation. *X-Ray Spectrometry*, **2009**, 38, 9-17	0.9	20
56	Precise and accurate determination of lead isotope ratios in mining wastes by ICP-QMS as a tool to identify their source. *Talanta*, **2007**, 73, 700-9	6.2	20
55	Polymer Inclusion Membrane as an Effective Sorbent To Facilitate Mercury Storage and Detection by X-ray Fluorescence in Natural Waters. *Analytical Chemistry*, **2018**, 90, 4756-4763	7.8	19
54	Evaluation of different quantification modes for a simple and reliable determination of Pb, Zn and Cd in soil suspensions by total reflection X-ray fluorescence spectrometry. *Journal of Analytical Atomic Spectrometry*, **2019**, 34, 930-939	3.7	18
53	Graphene Oxide Decorated with Cerium(IV) Oxide in Determination of Ultratrace Metal Ions and Speciation of Selenium. *Analytical Chemistry*, **2018**, 90, 4150-4159	7.8	18
52	Mercury determination at trace levels using membrane preconcentration and benchtop total reflection X-ray fluorescence analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 149, 84-90	3.1	18
51	Study of selenium sorption processes in volcanic ash using Total Reflection X-ray Fluorescence (TXRF). *Chemical Geology*, **2013**, 352, 19-26	4.2	17
50	Applicability of direct total reflection X-ray fluorescence analysis for selenium determination in solutions related to environmental and geochemical studies. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2010**, 65, 1002-1007	3.1	17
49	Thickness measurement of semiconductor thin films by energy dispersive X-ray fluorescence benchtop instrumentation: Application to GaN epilayers grown by molecular beam epitaxy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2010**, 65, 583-586	3.1	17
48	Simultaneous determination of silver and gold nanoparticles by cloud point extraction and total reflection X-ray fluorescence analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 149, 22-29	3.1	16
47	Presence, mobility and bioavailability of toxic metal(oids) in soil, vegetation and water around a Pb-Sb recycling factory (Barcelona, Spain). *Environmental Pollution*, **2018**, 237, 569-580	9.3	15
46	Analytical capabilities of total reflection X-ray fluorescence spectrometry for silver nanoparticles determination in soil adsorption studies. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 126, 71-78	3.1	14

45	Determination of silver nanoparticles in complex aqueous matrices by total reflection X-ray fluorescence spectrometry combined with cloud point extraction. *Journal of Analytical Atomic Spectrometry*, **2018**, 33, 383-394	3.7	14
44	Measurement uncertainty in Total Reflection X-ray Fluorescence. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 111, 30-37	3.1	13
43	Application of high-energy polarised beam energy dispersive X-ray fluorescence spectrometry to cadmium determination in saline solutions. *Journal of Analytical Atomic Spectrometry*, **2008**, 23, 1034	3.7	13
42	Total reflection X-ray fluorescence as a fast multielemental technique for human placenta sample analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2017**, 130, 53-59	3.1	12
41	Combination of cloud point extraction with single particle inductively coupled plasma mass spectrometry to characterize silver nanoparticles in soil leachates. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 5317-5329	4.4	11
40	Comprehensive analysis of renal arsenic accumulation using images based on X-ray fluorescence at the tissue, cellular, and subcellular levels. *Applied Radiation and Isotopes*, **2019**, 150, 95-102	1.7	10
39	Development of Total Reflection X-ray fluorescence spectrometry quantitative methodologies for elemental characterization of building materials and their degradation products. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 143, 18-25	3.1	10
38	Total reflection X-ray spectrometry (TXRF) for trace elements assessment in edible clams. *Applied Spectroscopy*, **2014**, 68, 1241-6	3.1	10
37	Improved instrumental sensitivity for Cd determination in aqueous solutions using Wavelength Dispersive X-ray Fluorescence Spectrometry, Rh-target tube instrumentation. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2008**, 63, 1329-1332	3.1	10
36	Development of X-ray Fluorescence Quantitative Methodologies To Analyze Aqueous and Acid Extracts from Building Materials Belonging to Cultural Heritage. *Analytical Chemistry*, **2017**, 89, 4246-4254	7.8	9
35	Interaction of silver nanoparticles with mediterranean agricultural soils: Lab-controlled adsorption and desorption studies. *Journal of Environmental Sciences*, **2019**, 83, 205-216	6.4	9
34	Multielemental analysis of dried residue from metal-bearing waters by wavelength dispersive X-ray fluorescence spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2009**, 64, 184-190	3.1	9
33	Sample Preparation For X-Ray Fluorescence Analysis **2009**,		9
32	Determination of the polymeric thin film thickness by energy dispersive X-ray fluorescence and multivariate analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 167, 105818	3.1	8
31	Application of small-spot energy dispersive X-ray fluorescence instrumentation in phytoremediation activities around metal mines. *Applied Spectroscopy*, **2009**, 63, 1396-402	3.1	8
30	Cellulose mini-membranes modified with TiO for separation, determination, and speciation of arsenates and selenites. *Mikrochimica Acta*, **2020**, 187, 430	5.8	8
29	Multielement Analysis of Tea and Mint Infusions by Total Reflection X-ray Fluorescence Spectrometry. *Food Analytical Methods*, **2018**, 11, 282-291	3.4	8
28	Possibilities and drawbacks of total reflection X-ray fluorescence spectrometry as a fast, simple and cost-effective technique for multielement analyses of cosmetics. *Analytica Chimica Acta*, **2019**, 1075, 27-37	6.6	7

27	Usefulness of a Dual Macro- and Micro-Energy-Dispersive X-Ray Fluorescence Spectrometer to Develop Quantitative Methodologies for Historic Mortar and Related Materials Characterization. *Analytical Chemistry*, **2018**, 90, 5795-5802	7.8	7
26	Summary of ISO standard 20289: Total reflection X-ray fluorescence analysis of water. *Surface and Interface Analysis*, **2020**, 52, 119-123	1.5	7
25	Comparison of Maceration and Ultrasonication for Green Extraction of Phenolic Acids from Aerial Parts. *Molecules*, **2020**, 25,	4.8	7
24	Energy dispersive X-ray fluorescence spectrometry for the direct multi-element analysis of dried blood spots. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 139, 13-19	3.1	7
23	Hollow fiber liquid phase microextraction combined with total reflection X-ray fluorescence spectrometry for the determination of trace level inorganic arsenic species in waters. *Talanta*, **2020** , 217, 121005	6.2	6
22	Critical evaluation of the use of total reflection X-ray fluorescence spectrometry for the analysis of whole blood samples: application to patients with thyroid gland diseases. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 1659-1670	4.4	5
21	Evaluation of energy dispersive X-ray fluorescence and total reflection X-ray fluorescence spectrometry for vegetal mass-limited sample analysis: Application to soybean root and shoots. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 170, 105915	3.1	5
20	A simple and sustainable portable triaxial energy dispersive X-ray fluorescence method for in situ multielemental analysis of mining water samples. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 164, 105762	3.1	5
19	Ligandless Surfactant-Assisted Emulsification Microextraction and Total Reflection X-ray Fluorescence Analysis for Ionic Gold Traces Quantification in Aqueous Samples and Extracts Containing Gold Nanoparticles. *Analytical Chemistry*, **2018**, 90, 14081-14087	7.8	5
18	Silybum marianum glycerol extraction for the preparation of high-value anti-ageing extracts. *Industrial Crops and Products*, **2021**, 168, 113613	5.9	5
17	Analytical capabilities of two-phase hollow-fiber liquid phase microextraction for trace multielement determination in aqueous samples by means of portable total reflection X-ray instrumentation. *Turkish Journal of Chemistry*, **2016**, 40, 1002-1011	1	4
16	Sample Preparation for X-Ray Fluorescence Analysis **2016**, 1-25		4
15	A sustainable and simple energy dispersive X-ray fluorescence method for sulfur determination at trace levels in biodiesel samples via formation of biodiesel spots on a suitable solid support. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2019**, 156, 7-12	3.1	3
14	A first evaluation of the analytical capabilities of the new X-ray fluorescence facility at International Atomic Energy Agency-Elettra Sincrotrone Trieste for multipurpose total reflection X-ray fluorescence analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2018**, 145, 8-19	3.1	3
13	Plants from Urban Parks as Valuable Cosmetic Ingredients: Green Extraction, Chemical Composition and Activity. *Agronomy*, **2022**, 12, 204	3.6	3
12	Remediation Potential of Forest Forming Tree Species Within Northern Steppe Reclamation Stands. *Ekologia*, **2018**, 37, 69-81	1.3	3
11	Ultratrace determination of metal ions using graphene oxide/carbon nanotubes loaded cellulose membranes and total-reflection X-ray fluorescence spectrometry: A green chemistry approach. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2021**, 177, 106069	3.1	3
10	Effect of potential of ion optic system and gas-filled octapole collision cell on mass discrimination in lead isotopic measurements ((206)Pb/(207)Pb, (208)Pb/(207)Pb and (206)Pb/2(208)Pb) by quadrupole-based inductively-coupled plasma mass spectrometry. *European Journal of Mass Spectrometry*, **2009**, 15, 1-10	1.1	2

9	Sequential extraction combined with isotopic analysis as a tool for studying lead contamination from mining activity. *International Journal of Environment and Waste Management*, **2010**, 5, 64	0.9	2
8	Characterization of binders and pigments using an integrated analytical approach: Application to wooden reliefs created by Vasko Lipovac in the 1970s. *Microchemical Journal*, **2021**, 173, 106959	4.8	2
7	Simple and reliable determination of Zn and some additional elements in seminal plasma samples by using total reflection X-ray fluorescence spectroscopy. *Analytical Methods*, **2020**, 12, 4899-4905	3.2	2
6	Analytical potential of total reflection X-ray fluorescence spectrometry for simultaneous determination of iron, copper and zinc in human blood serum and plasma. *Talanta*, **2021**, 233, 122553	6.2	2
5	Analytical potential of total reflection X-ray fluorescence (TXRF) instrumentation for simple determination of major and trace elements in milk powder samples.. *Food Chemistry*, **2022**, 383, 132590	8.5	2
4	Application of benchtop total-reflection X-ray fluorescence spectrometry and chemometrics in classification of origin and type of Croatian wines.. *Food Chemistry: X*, **2022**, 13, 100209	4.7	1
3	X-ray fluorescence spectrometry for environmental analysis: Basic principles, instrumentation, applications and recent trends. *Chemosphere*, **2022**, 303, 135006	8.4	1
2	F-47 InvitedX-ray Fluorescence Spectrometry in the Environmental Field: A Review of Some Recent Investigations and Applications. *Powder Diffraction*, **2010**, 25, 214-214	1.8	
1	X-Ray Fluorescence for Multi-elemental Analysis of Vegetation Samples **2022**, 21-36		