

Manuela Hidalgo

List of Publications by Year in descending order

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80
papers

2,727
citations

159573

30
h-index

206102

48
g-index

80
all docs

80
docs citations

80
times ranked

3078
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial electrosynthesis of butyrate from carbon dioxide: Production and extraction. <i>Bioelectrochemistry</i> , 2017, 117, 57-64.	4.6	159
2	Sorption of palladium(II), rhodium(III), and platinum(IV) on Fe ₃ O ₄ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 402-408.	9.4	151
3	Application of X-ray fluorescence spectrometry to determination and quantitation of metals in vegetal material. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 362-372.	11.4	150
4	Comparison of three-stage sequential extraction and toxicity characteristic leaching tests to evaluate metal mobility in mining wastes. <i>Analytica Chimica Acta</i> , 2004, 524, 151-159.	5.4	109
5	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 736.	3.0	95
6	Analytical Possibilities of Total Reflection X-ray Spectrometry (TXRF) for Trace Selenium Determination in Soils. <i>Analytical Chemistry</i> , 2010, 82, 7744-7751.	6.5	75
7	Multielemental fast analysis of vegetation samples by wavelength dispersive X-ray fluorescence spectrometry: Possibilities and drawbacks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1363-1372.	2.9	71
8	Preconcentration Methods for the Analysis of Liquid Samples by X-Ray Fluorescence Techniques. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 179-205.	6.7	71
9	Selective recovery and preconcentration of mercury with a benzoylthiourea-solid supported liquid membrane system. <i>Analytica Chimica Acta</i> , 2005, 547, 255-261.	5.4	65
10	Improved coupled-column liquid chromatographic method for the determination of glyphosate and aminomethylphosphonic acid residues in environmental waters. <i>Journal of Chromatography A</i> , 2004, 1035, 153-157.	3.7	64
11	Comparison of EDXRF and ICP-OES after microwave digestion for element determination in plant specimens from an abandoned mining area. <i>Analytica Chimica Acta</i> , 2005, 549, 197-204.	5.4	61
12	Determination of non-steroidal anti-inflammatory drugs in sewage sludge by direct hollow fiber supported liquid membrane extraction and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 6153-6158.	3.7	61
13	Selective enrichment of palladium from spent automotive catalysts by using a liquid membrane system. <i>Journal of Membrane Science</i> , 2003, 223, 39-48.	8.2	58
14	Analytical approaches for Hg determination in wastewater samples by means of total reflection X-ray fluorescence spectrometry. <i>Talanta</i> , 2010, 82, 821-827.	5.5	57
15	Selective thiacalix[4]arene bearing three amide groups as ionophore of binary Pd(II) and Au(III) extraction by a supported liquid membrane system. <i>Separation and Purification Technology</i> , 2007, 57, 374-379.	7.9	55
16	Determination of antibiotics (tetracyclines and sulfonamides) in biosolids by pressurized liquid extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1298, 68-75.	3.7	55
17	Liquid phase microextraction strategies combined with total reflection X-ray spectrometry for the determination of low amounts of inorganic antimony species in waters. <i>Analytica Chimica Acta</i> , 2013, 786, 8-15.	5.4	54
18	Determination of cadmium at ultratrace levels in environmental water samples by means of total reflection X-ray spectrometry after dispersive liquid-liquid microextraction. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 266-273.	3.0	52

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19	Comparison of nutrient and contaminant fluxes in two areas with different hydrological regimes (Empordà Wetlands, NE Spain). <i>Water Research</i> , 2003, 37, 3034-3046.	11.3	47
20	Uptake, translocation and ligand of silver in <i>Lactuca sativa</i> exposed to silver nanoparticles of different size, coatings and concentration. <i>Journal of Hazardous Materials</i> , 2020, 384, 121201.	12.4	44
21	Novel and selective procedure for Cr(VI) determination by X-ray fluorescence analysis after membrane concentration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 407-413.	2.9	43
22	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. <i>Waste Management</i> , 2018, 75, 312-318.	7.4	42
23	Separation and Concentration of Pd, Pt, and Rh from Automotive Catalytic Converters by Combining Two Hollow-Fiber Liquid Membrane Systems. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1616-1620.	3.7	39
24	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 67, 17-23.	2.9	38
25	A hollow fiber supported liquid membrane based on Aliquat 336 as a carrier for rhodium(III) transport and preconcentration. <i>Journal of Membrane Science</i> , 2000, 178, 131-139.	8.2	37
26	Size-fractionation of groundwater arsenic in alluvial aquifers of West Bengal, India: The role of organic and inorganic colloids. <i>Science of the Total Environment</i> , 2014, 468-469, 804-812.	8.0	37
27	Synthesised phosphine sulphide-type macroporous polymers for the preconcentration and separation of gold (III) and palladium (II) in a column system. <i>Reactive and Functional Polymers</i> , 2001, 49, 215-224.	4.1	35
28	Monsoonal influence on variation of hydrochemistry and isotopic signatures: Implications for associated arsenic release in groundwater. <i>Journal of Hydrology</i> , 2016, 535, 407-417.	5.4	34
29	The speciation of rhodium(III) in hydrochloric acid media by capillary zone electrophoresis. <i>Talanta</i> , 2002, 56, 1061-1071.	5.5	33
30	Method for the Determination of Pd-Catalyst Residues in Active Pharmaceutical Ingredients by Means of High-Energy Polarized-Beam Energy Dispersive X-Ray Fluorescence. <i>Analytical Chemistry</i> , 2009, 81, 1404-1410.	6.5	33
31	Arsenic determination by ICP-QMS with octopole collision/reaction cell. Overcome of matrix effects under vented and pressurized cell conditions. <i>Talanta</i> , 2011, 85, 1941-1947.	5.5	32
32	Determination of metal residues in active pharmaceutical ingredients according to European current legislation by using X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1253.	3.0	30
33	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. <i>Analytical Chemistry</i> , 2008, 80, 2357-2364.	6.5	29
34	Determination of platinum group metal catalyst residues in active pharmaceutical ingredients by means of total reflection X-ray spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 86, 50-54.	2.9	29
35	Determination of silver nanoparticles in complex aqueous matrices by total reflection X-ray fluorescence spectrometry combined with cloud point extraction. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 383-394.	3.0	26
36	Lead isotope ratio measurements by ICP-QMS to identify metal accumulation in vegetation specimens growing in mining environments. <i>Science of the Total Environment</i> , 2006, 367, 988-998.	8.0	25

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37	Precise and accurate determination of lead isotope ratios in mining wastes by ICP-QMS as a tool to identify their source. <i>Talanta</i> , 2007, 73, 700-709.	5.5	25
38	Adsorption and Preconcentration of Pd(II), Pt(IV), and Rh(III) using Anion-Exchange Solid-Phase Extraction Cartridges (SPE). <i>Solvent Extraction and Ion Exchange</i> , 2009, 27, 83-96.	2.0	25
39	Analytical possibilities of different X-ray fluorescence systems for determination of trace elements in aqueous samples pre-concentrated with carbon nanotubes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 192-197.	2.9	25
40	The evaluation of different sorbents for the preconcentration of phenoxyacetic acid herbicides and their metabolites from soils. <i>Journal of Chromatography A</i> , 2005, 1099, 55-63.	3.7	24
41	Study of the Sorption and Separation Abilities of Commercial Solid-Phase Extraction (SPE) Cartridge Oasis MAX Towards Au(III), Pd(II), Pt(IV), and Rh(III). <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 931-942.	2.0	23
42	Development of a new method for sulfide determination by vapor generator-inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 470-475.	2.9	22
43	Determination of Water-Soluble Hexavalent Chromium in Clinker Samples by Wavelength-Dispersive X-ray Fluorescence Spectrometry after Concentration in Activated Layers. <i>Applied Spectroscopy</i> , 2010, 64, 547-551.	2.2	22
44	Facilitated transport and preconcentration of the herbicide glyphosate and its metabolite AMPA through a solid supported liquid-membrane. <i>Journal of Membrane Science</i> , 2002, 203, 201-208.	8.2	21
45	Extraction and Preconcentration of the Herbicide Glyphosate and its Metabolite AMPA Using Anion-Exchange Solid Phases. <i>Mikrochimica Acta</i> , 2006, 153, 203-209.	5.0	21
46	Thiacalix[4]arene derivatives as extractants for metal ions in aqueous solutions: Application to the selective facilitated transport of Ag(I). <i>Materials Science and Engineering C</i> , 2008, 28, 985-989.	7.3	21
47	Improvement approaches for the determination of Cr(VI), Cd(II), Pd(II) and Pt(IV) contained in aqueous samples by conventional XRF instrumentation. <i>X-Ray Spectrometry</i> , 2009, 38, 9-17.	1.4	21
48	Combination of cloud point extraction with single particle inductively coupled plasma mass spectrometry to characterize silver nanoparticles in soil leachates. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5317-5329.	3.7	21
49	Transport of vanadium(V) through a tricapyrylmethylammonium solid supported liquid membrane from aqueous acetic acid/acetate solutions. <i>Journal of Membrane Science</i> , 1995, 98, 241-248.	8.2	20
50	Total reflection X-ray fluorescence as a fast multielemental technique for human placenta sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 53-59.	2.9	20
51	Determination of pharmaceutical compounds in sewage sludge using a standard addition method approach. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 1199-1209.	3.3	19
52	Applicability of direct total reflection X-ray fluorescence analysis for selenium determination in solutions related to environmental and geochemical studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 1002-1007.	2.9	18
53	Study of selenium sorption processes in volcanic ash using Total Reflection X-ray Fluorescence (TXRF). <i>Chemical Geology</i> , 2013, 352, 19-26.	3.3	18
54	Evaluation of a new solid-phase cartridge for the preconcentration of phenolic compounds in water. <i>Journal of Separation Science</i> , 2004, 27, 613-618.	2.5	17

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55	Correction strategies over spectral interferences for arsenic determination in aqueous samples with complex matrices by quadrupole ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 518.	3.0	17
56	Measurement uncertainty in Total Reflection X-ray Fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 111, 30-37.	2.9	17
57	Interaction of silver nanoparticles with mediterranean agricultural soils: Lab-controlled adsorption and desorption studies. <i>Journal of Environmental Sciences</i> , 2019, 83, 205-216.	6.1	17
58	Application of natural citric acid sources and their role on arsenic removal from drinking water: A green chemistry approach. <i>Journal of Hazardous Materials</i> , 2013, 262, 1167-1175.	12.4	16
59	Analytical capabilities of total reflection X-ray fluorescence spectrometry for silver nanoparticles determination in soil adsorption studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 126, 71-78.	2.9	16
60	Comparison of two extraction methods for the determination of selective serotonin reuptake inhibitors in sewage sludge by hollow fiber liquid-liquid phase microextraction. <i>Journal of Separation Science</i> , 2012, 35, 2460-2468.	2.5	15
61	Assessment of zooplankton-based eco-sustainable wastewater treatment at laboratory scale. <i>Chemosphere</i> , 2020, 238, 124683.	8.2	15
62	Application of high-energy polarised beam energy dispersive X-ray fluorescence spectrometry to cadmium determination in saline solutions. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1034.	3.0	13
63	Total Reflection X-ray Spectrometry (TXRF) for Trace Elements Assessment in Edible Clams. <i>Applied Spectroscopy</i> , 2014, 68, 1241-1246.	2.2	12
64	Hollow fiber liquid phase microextraction combined with total reflection X-ray fluorescence spectrometry for the determination of trace level inorganic arsenic species in waters. <i>Talanta</i> , 2020, 217, 121005.	5.5	12
65	Evaluation of Extraction Procedures of Organochlorine Pesticides from Natural Waters and Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 81, 243-256.	3.3	11
66	Improved instrumental sensitivity for Cd determination in aqueous solutions using Wavelength Dispersive X-ray Fluorescence Spectrometry, Rh-target tube instrumentation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1329-1332.	2.9	11
67	Preconcentration of the herbicide glyphosate and its metabolite AMPA by Immobilised Metal Ion Affinity Chromatography (IMAC). <i>Journal of Separation Science</i> , 2004, 27, 602-606.	2.5	10
68	Naproxen Adsorption-Desorption in a Sandy Aquifer Matrix: Characterisation of Hysteretic Behavior at Two Different Temperature Values. <i>Soil and Sediment Contamination</i> , 2013, 22, 641-653.	1.9	9
69	Separation and preconcentration of Cd(II) from chloride solutions using supported liquid membranes systems. <i>Desalination</i> , 2006, 200, 114-116.	8.2	8
70	Zooplankton-based reactors for tertiary wastewater treatment: A pilot-scale case study. <i>Journal of Environmental Management</i> , 2021, 278, 111538.	7.8	7
71	BENZYL(2-METHOXY-3-DIPHENYLPHOSPHINO)PROPYL ETHER AS A CARRIER FOR THE SELECTIVE TRANSPORT OF Pd(II) THROUGH A SOLID SUPPORTED LIQUID MEMBRANE. <i>Solvent Extraction and Ion Exchange</i> , 2001, 19, 329-344.	2.0	6
72	Thiacalixarene Derivatives Incorporated in Optical-Sensing Membranes for Metal Ion Recognition. <i>Analytical Letters</i> , 2011, 44, 1241-1253.	1.8	6

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73	Simple and Fast Methods Based on Solid-Phase Extraction Coupled to Liquid Chromatography with UV Detection for the Monitoring of Caffeine in Natural, and Wastewater as Marker of Anthropogenic Impact. <i>ISRN Chromatography</i> , 2012, 2012, 1-7.	0.6	6
74	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. <i>Turkish Journal of Chemistry</i> , 2016, 40, 1002-1011.	1.2	5
75	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. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 145, 8-19.	2.9	5
76	Vermifilter and zooplankton-based reactor integration as a nature-based system for wastewater treatment and reuse. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100153.	6.1	5
77	Effect of Potential of Ion Optic System and Gas-Filled Octapole Collision Cell on Mass Discrimination in Lead Isotopic Measurements ($^{206}\text{Pb}/^{207}\text{Pb}$, $^{208}\text{Pb}/^{207}\text{Pb}$ and $^{206}\text{Pb}/^{208}\text{Pb}$) by Quadrupole-Based Inductively-Coupled Plasma Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2009, 15, 1-10.	1.0	3
78	A simple and efficient method for the determination of pollutant phenols in soils with high levels of organic matter. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 293-304.	3.3	2
79	Sequential extraction combined with isotopic analysis as a tool for studying lead contamination from mining activity. <i>International Journal of Environment and Waste Management</i> , 2010, 5, 64.	0.3	2
80	Role of Colloidal Particles as Scavengers of Groundwater Arsenic: A Case Study from Rural Bengal. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 546-549.	0.6	2