

# Manuela Hidalgo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

2,279  
citations

28  
h-index

44  
g-index

80  
ext. papers

2,490  
ext. citations

5.3  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
80	Sorption of palladium(II), rhodium(III), and platinum(IV) on Fe(3)O(4) nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 301, 402-8	9.3	128
79	Application of X-ray fluorescence spectrometry to determination and quantitation of metals in vegetal material. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2009</b> , 28, 362-372	14.6	127
78	Microbial electrosynthesis of butyrate from carbon dioxide: Production and extraction. <i>Bioelectrochemistry</i> , <b>2017</b> , 117, 57-64	5.6	103
77	Comparison of three-stage sequential extraction and toxicity characteristic leaching tests to evaluate metal mobility in mining wastes. <i>Analytica Chimica Acta</i> , <b>2004</b> , 524, 151-159	6.6	97
76	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> , <b>2013</b> , 28, 736	3.7	86
75	Analytical possibilities of total reflection X-ray spectrometry (TXRF) for trace selenium determination in soils. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7744-51	7.8	67
74	Preconcentration Methods for the Analysis of Liquid Samples by X-Ray Fluorescence Techniques. <i>Applied Spectroscopy Reviews</i> , <b>2010</b> , 45, 179-205	4.5	62
73	Multielemental fast analysis of vegetation samples by wavelength dispersive X-ray fluorescence spectrometry: Possibilities and drawbacks. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2005</b> , 60, 1363-1372	3.1	60
72	Selective recovery and preconcentration of mercury with a benzoylthiourea-solid supported liquid membrane system. <i>Analytica Chimica Acta</i> , <b>2005</b> , 547, 255-261	6.6	59
71	Improved coupled-column liquid chromatographic method for the determination of glyphosate and aminomethylphosphonic acid residues in environmental waters. <i>Journal of Chromatography A</i> , <b>2004</b> , 1035, 153-7	4.5	57
70	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> , <b>2005</b> , 549, 197-204	6.6	55
69	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> , <b>2010</b> , 1217, 6153-8	4.5	52
68	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> , <b>2007</b> , 57, 374-379	8.3	52
67	Selective enrichment of palladium from spent automotive catalysts by using a liquid membrane system. <i>Journal of Membrane Science</i> , <b>2003</b> , 223, 39-48	9.6	52
66	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> , <b>2013</b> , 786, 8-15	6.6	51
65	Analytical approaches for Hg determination in wastewater samples by means of total reflection X-ray fluorescence spectrometry. <i>Talanta</i> , <b>2010</b> , 82, 821-7	6.2	51
64	Determination of antibiotics (tetracyclines and sulfonamides) in biosolids by pressurized liquid extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , <b>2013</b> , 1298, 68-75	4.5	45

63	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> , <b>2013</b> , 28, 266-273	3.7	44
62	Novel and selective procedure for Cr(VI) determination by X-ray fluorescence analysis after membrane concentration. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2006</b> , 61, 407-413	3.1	41
61	Comparison of nutrient and contaminant fluxes in two areas with different hydrological regimes (Empordó Wetlands, NE Spain). <i>Water Research</i> , <b>2003</b> , 37, 3034-46	12.5	40
60	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> , <b>2012</b> , 67, 17-23	3.1	35
59	Separation and Concentration of Pd, Pt, and Rh from Automotive Catalytic Converters by Combining Two Hollow-Fiber Liquid Membrane Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 1616-1620	3.9	34
58	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> , <b>2001</b> , 49, 215-224	4.6	33
57	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> , <b>2000</b> , 178, 131-139	9.6	32
56	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> , <b>2018</b> , 75, 312-318	8.6	30
55	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> , <b>2014</b> , 468-469, 804-12	10.2	30
54	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> , <b>2009</b> , 81, 1404-10	7.8	29
53	Arsenic determination by ICP-QMS with octopole collision/reaction cell. Overcome of matrix effects under vented and pressurized cell conditions. <i>Talanta</i> , <b>2011</b> , 85, 1941-7	6.2	28
52	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> , <b>2008</b> , 80, 2357-64	7.8	28
51	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> , <b>2020</b> , 384, 121201	12.8	28
50	The speciation of rhodium(III) in hydrochloric acid media by capillary zone electrophoresis. <i>Talanta</i> , <b>2002</b> , 56, 1061-71	6.2	26
49	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> , <b>2009</b> , 24, 1253	3.7	25
48	Monsoonal influence on variation of hydrochemistry and isotopic signatures: Implications for associated arsenic release in groundwater. <i>Journal of Hydrology</i> , <b>2016</b> , 535, 407-417	6	25
47	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> , <b>2013</b> , 86, 50-54	3.1	21
46	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> , <b>2006</b> , 367, 988-98	10.2	21

45	Facilitated transport and preconcentration of the herbicide glyphosate and its metabolite AMPA through a solid supported liquid-membrane. <i>Journal of Membrane Science</i> , <b>2002</b> , 203, 201-208	9.6	21
44	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> , <b>2013</b> , 88, 192-197	3.1	20
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> , <b>2010</b> , 64, 547-51	3.1	20
42	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> , <b>2009</b> , 38, 9-17	0.9	20
41	Adsorption and Preconcentration of Pd(II), Pt(IV), and Rh(III) using Anion-Exchange Solid-Phase Extraction Cartridges (SPE)View all notes. <i>Solvent Extraction and Ion Exchange</i> , <b>2009</b> , 27, 83-96	2.5	20
40	Development of a new method for sulfide determination by vapor generatorInductively coupled plasmaMass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2007</b> , 62, 470-475	3.1	20
39	Precise and accurate determination of lead isotope ratios in mining wastes by ICP-QMS as a tool to identify their source. <i>Talanta</i> , <b>2007</b> , 73, 700-9	6.2	20
38	The evaluation of different sorbents for the preconcentration of phenoxyacetic acid herbicides and their metabolites from soils. <i>Journal of Chromatography A</i> , <b>2005</b> , 1099, 55-63	4.5	19
37	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> , <b>2008</b> , 28, 985-989	8.3	18
36	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> , <b>2006</b> , 24, 931-942	2.5	18
35	Study of selenium sorption processes in volcanic ash using Total Reflection X-ray Fluorescence (TXRF). <i>Chemical Geology</i> , <b>2013</b> , 352, 19-26	4.2	17
34	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> , <b>2010</b> , 65, 1002-1007	3.1	17
33	Transport of vanadium(V) through a tricaprylylmethylammonium solid supported liquid membrane from aqueous acetic acid/acetate solutions. <i>Journal of Membrane Science</i> , <b>1995</b> , 98, 241-248	9.6	17
32	Extraction and Preconcentration of the Herbicide Glyphosate and its Metabolite AMPA Using Anion-Exchange Solid Phases. <i>Mikrochimica Acta</i> , <b>2006</b> , 153, 203-209	5.8	16
31	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> , <b>2009</b> , 24, 518	3.7	15
30	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> , <b>2016</b> , 126, 71-78	3.1	14
29	Evaluation of a new solid-phase cartridge for the preconcentration of phenolic compounds in water. <i>Journal of Separation Science</i> , <b>2004</b> , 27, 613-8	3.4	14
28	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> , <b>2018</b> , 33, 383-394	3.7	14

27	Measurement uncertainty in Total Reflection X-ray Fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2015</b> , 111, 30-37	3.1	13
26	Determination of pharmaceutical compounds in sewage sludge using a standard addition method approach. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2014</b> , 94, 1199-1209	1.8	13
25	Comparison of two extraction methods for the determination of selective serotonin reuptake inhibitors in sewage sludge by hollow fiber liquid-phase microextraction. <i>Journal of Separation Science</i> , <b>2012</b> , 35, 2460-8	3.4	13
24	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> , <b>2008</b> , 23, 1034	3.7	13
23	Assessment of zooplankton-based eco-sustainable wastewater treatment at laboratory scale. <i>Chemosphere</i> , <b>2020</b> , 238, 124683	8.4	13
22	Total reflection X-ray fluorescence as a fast multielemental technique for human placenta sample analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2017</b> , 130, 53-59	3.1	12
21	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> , <b>2019</b> , 411, 5317-5329	4.4	11
20	Total reflection X-ray spectrometry (TXRF) for trace elements assessment in edible clams. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 1241-6	3.1	10
19	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> , <b>2008</b> , 63, 1329-1332	3.1	10
18	Preconcentration of the herbicide glyphosate and its metabolite AMPA by immobilised metal ion affinity chromatography (IMAC). <i>Journal of Separation Science</i> , <b>2004</b> , 27, 602-6	3.4	10
17	Interaction of silver nanoparticles with mediterranean agricultural soils: Lab-controlled adsorption and desorption studies. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 83, 205-216	6.4	9
16	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> , <b>2013</b> , 262, 1167-75	12.8	9
15	Evaluation of Extraction Procedures of Organochlorine Pesticides from Natural Waters and Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2001</b> , 81, 243-256	1.8	9
14	Naproxen Adsorption-Desorption in a Sandy Aquifer Matrix: Characterisation of Hysteretic Behavior at Two Different Temperature Values. <i>Soil and Sediment Contamination</i> , <b>2013</b> , 22, 641-653	3.2	8
13	Separation and preconcentration of Cd(II) from chloride solutions using supported liquid membranes systems. <i>Desalination</i> , <b>2006</b> , 200, 114-116	10.3	8
12	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> , <b>2020</b> , 217, 121005	6.2	6
11	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> , <b>2001</b> , 19, 329-344	2.5	6
10	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> , <b>2012</b> , 2012, 1-7		6

9	Thiacalixarene Derivatives Incorporated in Optical-Sensing Membranes for Metal Ion Recognition. <i>Analytical Letters</i> , <b>2011</b> , 44, 1241-1253	2.2	5
8	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> , <b>2016</b> , 40, 1002-1011	1	4
7	Zooplankton-based reactors for tertiary wastewater treatment: A pilot-scale case study. <i>Journal of Environmental Management</i> , <b>2021</b> , 278, 111538	7.9	4
6	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> , <b>2018</b> , 145, 8-19	3.1	3
5	Role of Colloidal Particles as Scavengers of Groundwater Arsenic: A Case Study from Rural Bengal. <i>Procedia Earth and Planetary Science</i> , <b>2013</b> , 7, 546-549		2
4	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> , <b>2009</b> , 89, 293-304	1.8	2
3	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 $(^{206}\text{Pb}/2(^{208}\text{Pb}))$ by quadrupole-based inductively-coupled plasma mass spectrometry. <i>European Journal of Mass Spectrometry</i> , <b>2009</b> , 15, 1-10	1.1	2
2	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> , <b>2010</b> , 5, 64	0.9	2
1	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> , <b>2021</b> , 4, 100153	7.5	2