

# Jose Fermin Lopez-Sanchez

## List of Publications by Year in descending order

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85  
papers

8,072  
citations

81743

39  
h-index

58464

82  
g-index

85  
all docs

85  
docs citations

85  
times ranked

6286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of the BCR three step sequential extraction procedure prior to the certification of new sediment and soil reference materials. <i>Journal of Environmental Monitoring</i> , 1999, 1, 57-61.	2.1	1,832
2	Harmonized protocol and certified reference material for the determination of extractable contents of phosphorus in freshwater sediments - A synthesis of recent works. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 224-228.	1.5	405
3	A Review of the Different Methods Applied in Environmental Geochemistry For Single and Sequential Extraction of Trace Elements in Soils and Related Materials. <i>Water, Air, and Soil Pollution</i> , 2008, 189, 291-333.	1.1	403
4	Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure. <i>Analytica Chimica Acta</i> , 1999, 382, 317-327.	2.6	358
5	Application of a modified BCR sequential extraction (three-step) procedure for the determination of extractable trace metal contents in a sewage sludge amended soil reference material (CRM 483), complemented by a three-year stability study of acetic acid and EDTA extractable metal content. <i>Journal of Environmental Monitoring</i> , 2000, 2, 228-233.	2.1	356
6	Certification of trace metal extractable contents in a sediment reference material (CRM 601) following a three-step sequential extraction procedure. <i>Science of the Total Environment</i> , 1997, 205, 223-234.	3.9	339
7	Use of the modified BCR three-step sequential extraction procedure for the study of trace element dynamics in contaminated soils. <i>Environmental Pollution</i> , 2008, 152, 330-341.	3.7	317
8	Assessment of CaCl <sub>2</sub> , NaNO <sub>3</sub> and NH <sub>4</sub> NO <sub>3</sub> extraction procedures for the study of Cd, Cu, Pb and Zn extractability in contaminated soils. <i>Analytica Chimica Acta</i> , 2004, 504, 217-226.	2.6	316
9	Selection and evaluation of sequential extraction procedures for the determination of phosphorus forms in lake sediment. <i>Journal of Environmental Monitoring</i> , 1999, 1, 51-56.	2.1	280
10	Evaluation of a sequential extraction procedure for the determination of extractable trace metal contents in sediments. <i>Fresenius' Journal of Analytical Chemistry</i> , 1994, 349, 808-814.	1.5	242
11	Certification of the extractable contents of Cd, Cr, Cu, Ni, Pb and Zn in a freshwater sediment following a collaboratively tested and optimised three-step sequential extraction procedure. <i>Journal of Environmental Monitoring</i> , 2001, 3, 243-250.	2.1	209
12	Three-stage sequential extraction procedure for the determination of metals in river sediments. <i>Analytica Chimica Acta</i> , 1994, 286, 423-429.	2.6	146
13	Prediction of Trace Element Mobility in Contaminated Soils by Sequential Extraction. <i>Journal of Environmental Quality</i> , 2003, 32, 2054-2066.	1.0	143
14	Development of a harmonised phosphorus extraction procedure and certification of a sediment reference material. <i>Journal of Environmental Monitoring</i> , 2001, 3, 121-125.	2.1	128
15	Determination and speciation of copper and lead in sediments of a Mediterranean river (River Tenes,) Tj ETQq1 1 0.784314 rgBT /Ove 5.3 113		
16	Relationships between phosphorus fractionation and major components in sediments using the SMT harmonised extraction procedure. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 248-254.	1.9	109
17	Certified reference materials for the quality control of EDTA- and acetic acid-extractable contents of trace elements in sewage sludge amended soils (CRMs 483 and 484). <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 611-618.	1.5	101
18	Optimization of Tessier Procedure for Metal Solid Speciation in River Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 1989, 36, 69-83.	1.8	95

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19	Trace metal partitioning in marine sediments and sludges deposited off the coast of Barcelona (Spain). <i>Water Research</i> , 1996, 30, 153-159.	5.3	94
20	Comparison of Two Sequential Extraction Procedures for Trace Metal Partitioning in Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 1993, 51, 113-121.	1.8	76
21	Prediction of the impact of the Aznalc��llar toxic spill on the trace element contamination of agricultural soils. <i>Science of the Total Environment</i> , 1999, 242, 131-148.	3.9	74
22	CRM 601, A stable material for its extractable content of heavy metals. <i>Analyst, The</i> , 1998, 123, 1675-1677.	1.7	71
23	Shortened screening method for phosphorus fractionation in sediments. <i>Analytica Chimica Acta</i> , 2004, 508, 201-206.	2.6	70
24	Arsenic speciation in plants growing in arsenic-contaminated sites. <i>Chemosphere</i> , 2008, 71, 1522-1530.	4.2	70
25	Specific Procedure for Metal Solid Speciation in Heavily Polluted River Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 1989, 35, 89-100.	1.8	69
26	Study of the stability of extractable trace metal contents in a river sediment using sequential extraction. <i>Analyst, The</i> , 1994, 119, 1109-1114.	1.7	69
27	Migration of antimony from polyethylene terephthalate used in mineral water bottles. <i>Food Chemistry</i> , 2015, 166, 544-550.	4.2	67
28	Comparison of single and sequential extraction procedures for the study of rare earth elements remobilisation in different types of soils. <i>Analytica Chimica Acta</i> , 2010, 662, 128-136.	2.6	63
29	Establishment of a method for determination of arsenic species in seafood by LC-ICP-MS. <i>Food Chemistry</i> , 2015, 173, 1073-1082.	4.2	55
30	Assessment of arsenic bioaccessibility in raw and cooked edible mushrooms by a PBET method. <i>Food Chemistry</i> , 2016, 194, 849-856.	4.2	53
31	Measurement of arsenic compounds in littoral zone algae from the Western Mediterranean Sea. Occurrence of arsenobetaine. <i>Chemosphere</i> , 2010, 81, 867-875.	4.2	52
32	Sample pre-treatment and extraction methods that are crucial to arsenic speciation in algae and aquatic plants. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 53-69.	5.8	52
33	Determination of Water-Soluble Arsenic Compounds in Commercial Edible Seaweed by LC-ICPMS. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12963-12968.	2.4	50
34	Leachability and analytical speciation of antimony in coal fly ash. <i>Analytica Chimica Acta</i> , 2006, 576, 200-206.	2.6	45
35	A fully validated method for the determination of arsenic species in rice and infant cereal products. <i>Pure and Applied Chemistry</i> , 2012, 84, 225-238.	0.9	45
36	Capillary zone electrophoresis of humic acids. <i>Journal of Chromatography A</i> , 1994, 664, 301-305.	1.8	43

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37	Antimony speciation in terrestrial plants. Comparative studies on extraction methods. Journal of Environmental Monitoring, 2005, 7, 1207.	2.1	43
38	Speciation of antimony in environmental matrices by coupled techniques. TrAC - Trends in Analytical Chemistry, 2010, 29, 28-39.	5.8	43
39	A need for determination of arsenic species at low levels in cereal-based food and infant cereals. Validation of a method by ICP-MS. Food Chemistry, 2014, 147, 377-385.	4.2	43
40	Occurrence of arsenic species in algae and freshwater plants of an extreme arid region in northern Chile, the Loa River Basin. Chemosphere, 2013, 90, 556-564.	4.2	41
41	Occurrence of inorganic arsenic in edible Shiitake ( <i>Lentinula edodes</i> ) products. Food Chemistry, 2014, 158, 207-215.	4.2	41
42	Separation of bromide, bromate, iodide, iodate, nitrite, nitrate and selenite anions by capillary zone electrophoresis. Fresenius' Journal of Analytical Chemistry, 1993, 345, 420-423.	1.5	40
43	New Approaches to the Extraction of Arsenic Species from Soils. Mikrochimica Acta, 2005, 151, 241-248.	2.5	40
44	New considerations about the separation and quantification of antimony species by ion chromatography-hydride generation atomic fluorescence spectrometry. Journal of Chromatography A, 2004, 1052, 121-129.	1.8	39
45	Analytical speciation as a tool to assess arsenic behaviour in soils polluted by mining. Analytical and Bioanalytical Chemistry, 2007, 387, 627-635.	1.9	38
46	ICP-MS analysis of arsenic compounds in dominant seaweeds from the Thermaikos Gulf (Northern) Tj ETQq0,0 0 rgBTJ/Overlock	4.2	38
47	Speciation analysis of antimony in extracts of size-classified volcanic ash by HPLC-ICP-MS. Analytical and Bioanalytical Chemistry, 2007, 387, 1949-1954.	1.9	37
48	Method development for the simultaneous determination of methylmercury and inorganic mercury in seafood. Food Control, 2014, 46, 351-359.	2.8	37
49	Quantitative aspects of the separation of arsenical species by free solution capillary electrophoresis. Fresenius' Journal of Analytical Chemistry, 1994, 348, 810-814.	1.5	35
50	Certified reference materials for analytical mercury speciation in biological and environmental matrices: Do they meet user needs?; a review. Analytica Chimica Acta, 2012, 720, 9-15.	2.6	30
51	Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments. Analytica Chimica Acta, 1998, 376, 183-195.	2.6	28
52	Inorganic Arsenic Determination in Food: A Review of Analytical Proposals and Quality Assessment Over the Last Six Years. Applied Spectroscopy, 2017, 71, 25-69.	1.2	28
53	Arsenic speciation in soils and <i>Erica andevalensis</i> Cabezudo & Rivera and <i>Erica australis</i> L. from São Domingos Mine area, Portugal. Journal of Geochemical Exploration, 2012, 119-120, 51-59.	1.5	27
54	Direct solid sample analysis with graphite furnace atomic absorption spectrometry-A fast and reliable screening procedure for the determination of inorganic arsenic in fish and seafood. Talanta, 2015, 134, 224-231.	2.9	26

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55	Sequential extraction of trace metals from sediments. Fresenius' Journal of Analytical Chemistry, 1995, 351, 197-203.	1.5	24
56	Study of selenocompounds from selenium-enriched culture of edible sprouts. Food Chemistry, 2013, 141, 3738-3743.	4.2	24
57	A new organic-rich soil reference material certified for its EDTA- and acetic acid- extractable contents of Cd, Cr, Cu, Ni, Pb and Zn, following collaboratively tested and harmonised procedures. Journal of Environmental Monitoring, 2001, 3, 238-242.	2.1	23
58	Does boiling affect the bioaccessibility of selenium from cabbage?. Food Chemistry, 2015, 181, 304-309.	4.2	23
59	Accuracy of a method based on atomic absorption spectrometry to determine inorganic arsenic in food: Outcome of the collaborative trial IMEP-41. Food Chemistry, 2016, 213, 169-179.	4.2	22
60	Selenium speciation by capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2008, 27, 183-189.	5.8	20
61	Extractable chromium determination in soils by AAS. Mikrochimica Acta, 1995, 119, 251-258.	2.5	19
62	Analytical approaches to the determination of phosphorus partitioning patterns in sediments. Journal of Environmental Monitoring, 2003, 5, 312-318.	2.1	19
63	Selenium uptake by edible plants from enriched peat. Scientia Horticulturae, 2013, 164, 428-433.	1.7	19
64	Mercury( <sup>ii</sup> ) and methylmercury determination in water by liquid chromatography hyphenated to cold vapour atomic fluorescence spectrometry after online short-column preconcentration. Analytical Methods, 2015, 7, 2699-2706.	1.3	19
65	New Sediment and Soil CRMs for Extractable Trace Metal Content. International Journal of Environmental Analytical Chemistry, 2001, 79, 81-95.	1.8	18
66	On-line photodecomposition for the determination of antimony species. Applied Organometallic Chemistry, 2006, 20, 12-19.	1.7	18
67	Inorganic mercury and methylmercury determination in polluted waters by HPLC coupled to cold vapour atomic fluorescence spectroscopy. International Journal of Environmental Analytical Chemistry, 2012, 92, 909-921.	1.8	17
68	Comparison of three strategies to evaluate uncertainty from in-house validation data. A case study: mercury determination in sediments. Analytical and Bioanalytical Chemistry, 2006, 385, 1298-1303.	1.9	15
69	Effects of sample processing on arsenic speciation in marine macroalgae. Analytical Methods, 2013, 5, 2543.	1.3	15
70	Determination of total cadmium, lead, arsenic, mercury and inorganic arsenic in mushrooms: outcome of IMEP-116 and IMEP-39. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 54-67.	1.1	15
71	Comparison of chemical modifiers for selenium determination in soil aqua regia extracts by ZETAAS. Talanta, 2006, 69, 1118-1122.	2.9	14
72	A new quality control soil material for monitoring trace metals in accidentally polluted areas. Analytica Chimica Acta, 2005, 533, 41-49.	2.6	12

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73	Different strategies to assess Cu and Pb mobilization in polluted river sediments. Fresenius' Journal of Analytical Chemistry, 1991, 341, 631-635.	1.5	11
74	Solid-phase extraction (SPE) assays to ascertain the mechanisms of retention of antimony species in several stationary phases. Microchemical Journal, 2011, 97, 74-77.	2.3	11
75	Assessment of Extractants for the Determination of Thallium in an Accidentally Polluted Soil. Bulletin of Environmental Contamination and Toxicology, 2008, 81, 334-338.	1.3	9
76	Occurrence of methylated arsenic species in parts of plants growing in polluted soils. International Journal of Environmental Analytical Chemistry, 2011, 91, 844-855.	1.8	8
77	Antimony speciation in spirits stored in PET bottles: identification of a novel antimony complex. Journal of Analytical Atomic Spectrometry, 2017, 32, 1109-1118.	1.6	7
78	Assessment and validation of ICP-MS and IC-ICP-MS methods for the determination of total, extracted and speciated arsenic. Application to samples from a soil-rice system at varying the irrigation method. Journal of Environmental Management, 2022, 302, 114105.	3.8	7
79	12. Arsenic speciation in environmental matrices. Techniques and Instrumentation in Analytical Chemistry, 1995, 17, 285-304.	0.0	6
80	Comparison of In Vitro PBET and Phosphoric Acid Extraction as an Approach to Estimate Selenite and Selenate Bioaccessibility from Soil. Water, Air, and Soil Pollution, 2011, 222, 315-324.	1.1	6
81	Arsenosugar standards extracted from algae: Isolation, characterization and use for identification and quantification purposes. Journal of Chromatography A, 2020, 1609, 460459.	1.8	6
82	Heavy metal partitioning in sediments of a highly polluted Mediterranean river (Besos, Barcelona, NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf International Association of Theoretical and Applied Limnology, 1994, 25, 2047-2050.	0.1	1
83	Trace metal partitioning in sediments: A common sequential extraction procedure. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1993, 25, 1147-1149.	0.1	0
84	Sampling and sample processing: Fit-for-purpose techniques. Comprehensive Analytical Chemistry, 2019, 85, 53-88.	0.7	0
85	Assessment of Inorganic Priority Pollutants in Contaminated Soils: Harmonization of Analytical Protocols For Heavy Metal Extraction: Analytical Speciation. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 95-116.	0.1	0