

# Juan R Castillo

## List of Publications by Year in descending order

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208  
papers

6,242  
citations

71097

41  
h-index

98792

67  
g-index

209  
all docs

209  
docs citations

209  
times ranked

5323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective identification, characterization and determination of dissolved silver(i) and silver nanoparticles based on single particle detection by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1362.	3.0	322
2	Detection, characterization and quantification of inorganic engineered nanomaterials: A review of techniques and methodological approaches for the analysis of complex samples. <i>Analytica Chimica Acta</i> , 2016, 904, 10-32.	5.4	300
3	Electrochemical affinity biosensors for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2013, 49, 146-158.	10.1	216
4	Critical considerations for the determination of nanoparticle number concentrations, size and number size distributions by single particle ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1220.	3.0	213
5	An electrochemical competitive biosensor for ochratoxin A based on a DNA biotinylated aptamer. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3254-3259.	10.1	178
6	In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. <i>Analytica Chimica Acta</i> , 1999, 385, 213-222.	5.4	165
7	Amperometric cholesterol biosensors based on the electropolymerization of pyrrole and the electrocatalytic effect of Prussian-Blue layers helped with self-assembled monolayers. <i>Talanta</i> , 2004, 64, 655-664.	5.5	117
8	Direct determination of uric acid in serum by a fluorometric-enzymatic method based on uricase. <i>Talanta</i> , 2001, 54, 847-854.	5.5	109
9	Size characterization and quantification of silver nanoparticles by asymmetric flow field-flow fractionation coupled with inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2723-2732.	3.7	97
10	Comparison of biosensors based on entrapment of cholesterol oxidase and cholesterol esterase in electropolymerized films of polypyrrole and diamionaphthalene derivatives for amperometric determination of cholesterol. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 273-280.	3.7	86
11	Electropolymerization of pyrrole and immobilization of glucose oxidase in a flow system: influence of the operating conditions on analytical performance. <i>Biosensors and Bioelectronics</i> , 1998, 13, 371-382.	10.1	77
12	Detection and characterization of silver nanoparticles and dissolved species of silver in culture medium and cells by AsFFFF-UV-Vis-ICPMS: application to nanotoxicity tests. <i>Analyst</i> , The, 2014, 139, 914-922.	3.5	74
13	Evaluation of number concentration quantification by single-particle inductively coupled plasma mass spectrometry: microsecond vs. millisecond dwell times. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5089-5097.	3.7	74
14	In situ preparation of overoxidized PPy/oPPD bilayer biosensors for the determination of glucose and cholesterol in serum. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 219-226.	7.8	73
15	A comparative study of immobilization methods of a tyrosinase enzyme on electrodes and their application to the detection of dichlorvos organophosphorus insecticide. <i>Talanta</i> , 2006, 68, 791-799.	5.5	73
16	Electrochemical hydride generation as a sample-introduction technique in atomic spectrometry: fundamentals, interferences, and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 743-751.	3.7	73
17	Ochratoxin A nanostructured electrochemical immunosensors based on polyclonal antibodies and gold nanoparticles coupled to the antigen. <i>Analytical Methods</i> , 2010, 2, 335.	2.7	71
18	Multielement characterization of metal-humic substances complexation by size exclusion chromatography, asymmetrical flow field-flow fractionation, ultrafiltration and inductively coupled plasma-mass spectrometry detection: A comparative approach. <i>Journal of Chromatography A</i> , 2006, 1129, 236-246.	3.7	70

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19	Determination of Glucose in Blood Based on the Intrinsic Fluorescence of Glucose Oxidase. <i>Analytical Chemistry</i> , 1997, 69, 1471-1476.	6.5	66
20	Semiquantitative simultaneous determination of metals in olive oil using direct emulsion nebulization. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1515-1518.	3.0	64
21	Amperometric cholesterol biosensor based on in situ reconstituted cholesterol oxidase on an immobilized monolayer of flavin adenine dinucleotide cofactor. <i>Analytical Biochemistry</i> , 2004, 333, 88-98.	2.4	64
22	Theoretical evaluation of solid sampling-electrothermal atomic absorption spectrometry for screening purposes. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 547-552.	3.0	63
23	An insight into silver nanoparticles bioavailability in rats. <i>Metallomics</i> , 2014, 6, 2242-2249.	2.4	62
24	About detectability and limits of detection in single particle inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 169, 105883.	2.9	61
25	Use of polyclonal antibodies to ochratoxin A with a quartz crystal microbalance for developing real-time mycotoxin piezoelectric immunosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 575-582.	3.7	60
26	An optical glucose biosensor based on derived glucose oxidase immobilised onto a sol-gel matrix. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 227-232.	7.8	59
27	Electrochemical hydride generation for the simultaneous determination of hydride forming elements by inductively coupled plasma-atomic emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 505-513.	2.9	59
28	Metal associations to microparticles, nanocolloids and macromolecules in compost leachates: Size characterization by asymmetrical flow field-flow fractionation coupled to ICP-MS. <i>Analytica Chimica Acta</i> , 2010, 661, 206-214.	5.4	57
29	Effect of Metal Ions on the Molecular Weight Distribution of Humic Substances Derived from Municipal Compost: A Ultrafiltration and Size Exclusion Chromatography with Spectrophotometric and Inductively Coupled Plasma-MS Detection. <i>Analytical Chemistry</i> , 2003, 75, 761-767.	6.5	56
30	Application of Molecular Absorption Properties of Horseradish Peroxidase for Self-Indicating Enzymatic Interactions and Analytical Methods. <i>Journal of the American Chemical Society</i> , 2005, 127, 1038-1048.	13.7	55
31	An electrochemical immunosensor for ochratoxin A determination in wines based on a monoclonal antibody and paramagnetic microbeads. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1585-1593.	3.7	55
32	Study of a fluorometric-enzymatic method for bilirubin based on chemically modified bilirubin-oxidase and multivariate calibration. <i>Talanta</i> , 2002, 57, 343-353.	5.5	53
33	On-line emulsions of olive oil samples and ICP-MS multi-elemental determination. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1154-1162.	3.0	53
34	Performance of different preconcentration columns used in sequential injection analysis and inductively coupled plasma-mass spectrometry for multielemental determination in seawater. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 391-402.	2.9	52
35	Development of a Platinized and Ferrocene-Mediated Cholesterol Amperometric Biosensor Based on Electropolymerization of Polypyrrole in a Flow System.. <i>Analytical Sciences</i> , 2002, 18, 537-542.	1.6	49
36	Strategies for the improvement of an amperometric cholesterol biosensor based on electropolymerization in flow systems: use of charge-transfer mediators and platinization of the electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 24, 51-63.	2.8	48

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37	Single particle inductively coupled plasma mass spectrometry as screening tool for detection of particles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 159, 105654.	2.9	47
38	Tubular electrolytic hydride generator for continuous and flow injection sample introduction in atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 103-107.	3.0	46
39	Sensor film for Vitamin C determination based on absorption properties of polyaniline. <i>Talanta</i> , 2005, 65, 1045-1051.	5.5	45
40	Direct determination of glucose in serum by fluorimetry using a labeled enzyme. <i>Analytica Chimica Acta</i> , 2000, 414, 33-41.	5.4	44
41	A speciation methodology to study the contributions of humic-like and fulvic-like acids to the mobilization of metals from compost using size exclusion chromatographyâ€“ultraviolet absorptionâ€“inductively coupled plasma mass spectrometry and deconvolution analysis. <i>Analytica Chimica Acta</i> , 2008, 606, 1-8.	5.4	42
42	An approach to the natural and engineered nanoparticles analysis in the environment by inductively coupled plasma mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 99-104.	1.5	42
43	Discrimination of the causes of imprecision in the direct determination of metals in organic solid samples by electrothermal atomization atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 489-494.	3.0	41
44	Improved electrochemical competitive immunosensor for ochratoxin A with a biotinylated monoclonal antibody capture probe and colloidal gold nanostructuring. <i>Analytical Methods</i> , 2011, 3, 977.	2.7	39
45	Selenium speciation by high-performance liquid chromatographyâ€“fraction collectionâ€“electrothermal atomic absorption spectrometry: optimization of critical parameters. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 643-648.	3.0	38
46	Determination of direct-bilirubin by a fluorimetric-enzymatic method based on bilirubin oxidase. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 368, 516-521.	1.5	38
47	Quality of quantitative and semiquantitative results in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 732-738.	3.0	38
48	Direct determination of metals in solid samples by graphite-furnace atomic absorption spectrometry: Does sample mass influence the analytical results?. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 1855-1860.	2.9	37
49	Three approaches to the development of selective bilayer amperometric biosensors for glucose by in situ electropolymerization. <i>Analyst, The</i> , 1999, 124, 319-324.	3.5	37
50	Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination. <i>Analytica Chimica Acta</i> , 1999, 385, 203-211.	5.4	34
51	Fluorimetricâ€“enzymatic determination of glucose based on labelled glucose oxidase. <i>Analytica Chimica Acta</i> , 1998, 368, 97-104.	5.4	33
52	Direct determination of phosphorus in two different plastic materials (PET and PP) by solid sampling-graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1383-1388.	3.0	33
53	Fluorometric sensors based on chemically modified enzymes Glucose determination in drinks. <i>Talanta</i> , 2003, 60, 415-423.	5.5	33
54	Metalâ€“protein binding losses in proteomic studies by PAGEâ€“LA-ICP-MS. <i>Talanta</i> , 2010, 81, 241-247.	5.5	33

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55	Determination of germanium in coal ashes by hydride generation and flame atomic-absorption spectrophotometry. <i>Analyst, The</i> , 1982, 107, 89-95.	3.5	31
56	Multi-element analysis of compost by laser ablation-inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2007, 72, 1141-1148.	5.5	31
57	Influence of oxidising agents in lead determination by hydride generation direct flame atomic absorption spectroscopy. <i>Mikrochimica Acta</i> , 1985, 85, 253-263.	5.0	30
58	Silicon determination by inductively coupled plasma atomic emission spectrometry after generation of volatile silicon tetrafluoride. <i>Talanta</i> , 1998, 45, 1211-1217.	5.5	30
59	Intrinsic fluorescence of enzymes and fluorescence of chemically modified enzymes for analytical purposes: a review. <i>Luminescence</i> , 2001, 16, 199-210.	2.9	30
60	Fluorometric-enzymatic lactate determination based on enzyme cytochrome b2 fluorescence. <i>Analytical Chemistry</i> , 1993, 65, 3076-3080.	6.5	29
61	The use of chemical modifiers in the determination of cadmium in sewage sludge and tin in PVC by solid sampling-graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 787-795.	2.9	29
62	Interferences in electrochemical hydride generation of hydrogen selenide. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 2347-2360.	2.9	29
63	Functional speciation of metal-dissolved organic matter complexes by size exclusion chromatography coupled to inductively coupled plasma mass spectrometry and deconvolution analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 392-398.	2.9	28
64	Rapid determination of recent cocaine use with magnetic particles-based enzyme immunoassays in serum, saliva, and urine fluids. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 125, 54-61.	2.8	27
65	Characterization of a urea optical sensor based on polypyrrole. <i>Mikrochimica Acta</i> , 1999, 130, 267-272.	5.0	26
66	Identification of iron(III) oxides and hydroxy-oxides by voltammetry of immobilised microparticles. <i>Analytica Chimica Acta</i> , 2003, 477, 157-168.	5.4	25
67	Some pitfalls in PAGE-LA-ICP-MS for quantitative elemental speciation of dissolved organic matter and metalomics. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 699-707.	3.7	25
68	Study of interferences in the determination of lead by hydride generation-direct flame atomic-absorption spectrometry when oxidising agents are employed to increase the sensitivity. <i>Analyst, The</i> , 1985, 110, 1219-1221.	3.5	24
69	Effect of nickel and palladium as chemical modifiers and influence of urine matrix on different chemical species of selenium in electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 737-743.	3.0	24
70	Volatilization of methyl borate in iron matrix. Determination of boron in steel by ICP atomic emission spectrometry. <i>Talanta</i> , 1993, 40, 1397-1403.	5.5	24
71	Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase. <i>Analytica Chimica Acta</i> , 1997, 343, 117-123.	5.4	24
72	Reagentless system for sulphite determination based on polyaniline. <i>Analytica Chimica Acta</i> , 2004, 502, 7-13.	5.4	24

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73	Direct determination of phenolic compounds and phospholipids in virgin olive oil by micellar liquid chromatography. <i>Food Chemistry</i> , 2007, 100, 8-14.	8.2	24
74	Size determination and quantification of engineered cerium oxide nanoparticles by flow field-flow fractionation coupled to inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1438, 205-215.	3.7	24
75	Determination of metals in poly(vinyl chloride) by atomic absorption spectrometry. Part I. Determination of calcium, aluminium and antimony in samples of poly(vinyl chloride) with a high content of alkaline earths. <i>Journal of Analytical Atomic Spectrometry</i> , 1986, 1, 141.	3.0	23
76	Direct determination of copper at trace levels in solid samples of animal feed using electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 125.	3.0	23
77	Electrochemical Behavior of Silver-Copper Alloys in Voltammetry of Microparticles: A Simple Method for Screening Purposes. <i>Electroanalysis</i> , 2001, 13, 477-483.	2.9	23
78	Towards the Removal of Antibiotics Detected in Wastewaters in the POCTEFA Territory: Occurrence and TiO <sub>2</sub> Photocatalytic Pilot-Scale Plant Performance. <i>Water (Switzerland)</i> , 2020, 12, 1453.	2.7	23
79	Evaluation of on-line coupling size exclusion chromatography electrothermal atomic absorption spectrometry for selenium speciation. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 837-843.	1.5	22
80	Molecularly Imprinted On-Line Solid-Phase Extraction Coupled with Fluorescence Detection for the Determination of Ochratoxin A in Wheat Samples. <i>Analytical Letters</i> , 2012, 45, 51-62.	1.8	22
81	A validated multi-channel electrochemical immunoassay for rapid fumonisin B1 determination in cereal samples. <i>Analytical Methods</i> , 2015, 7, 3742-3749.	2.7	22
82	Determination of boron in waters by using methyl borate generation and flame atomic-emission spectrometry. <i>Analyst, The</i> , 1985, 110, 1435.	3.5	21
83	Intrinsic Molecular Fluorescence of Lactate Dehydrogenase: an Analytical Alternative for Enzymic Determination of Pyruvate. <i>Analyst, The</i> , 1997, 122, 355-359.	3.5	21
84	SEC-ICP-MS studies for elements binding to different molecular weight fractions of humic substances in compost extract obtained from urban solid waste. <i>Journal of Environmental Monitoring</i> , 2002, 4, 1010-1016.	2.1	21
85	Elucidation of interference mechanisms caused by iron on stibine electrochemical generation by differential pulse anodic stripping voltametry. A case study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 96-103.	2.9	21
86	A chronoamperometric sensor for hydrogen peroxide based on electron transfer between immobilized horseradish peroxidase on a glassy carbon electrode and a diffusing ferrocene mediator. <i>Sensors and Actuators B: Chemical</i> , 1994, 21, 135-141.	7.8	20
87	Examination of the "Cuerda Seca"™ Decoration Technique on Islamic Ceramics from al-Andalus (Spain). <i>Journal of Archaeological Science</i> , 1999, 26, 935-941.	2.4	20
88	Data acquisition of transient signals in inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2000, 407, 301-309.	5.4	20
89	Mathematical correction for polyatomic interferences in the speciation of chromium by liquid chromatography-inductively coupled plasma quadrupole mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 433-437.	2.9	20
90	Rapid simultaneous extraction and magnetic particle-based enzyme immunoassay for the parallel determination of ochratoxin A, fumonisin B1 and deoxynivalenol mycotoxins in cereal samples. <i>Analytical Methods</i> , 2017, 9, 3602-3611.	2.7	20

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91	Roman Glazed Ceramics in the Western Mediterranean: Chemical Characterization by Inductively Coupled Plasma Atomic Emission Spectrometry of Ceramic Bodies. <i>Journal of Archaeological Science</i> , 1996, 23, 903-914.	2.4	19
92	Surface plasmon resonance-based detection An alternative to refractive index detection in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1997, 759, 27-35.	3.7	19
93	Influence of the number of calibration points on the quality of results in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1434.	3.0	19
94	Mobilization and speciation of chromium in compost: A methodological approach. <i>Science of the Total Environment</i> , 2007, 373, 383-390.	8.0	19
95	Determination of selenium by hydride generation ultraviolet-visible molecular absorption spectrometry with diode-array detection. <i>Analyst, The</i> , 1988, 113, 1387-1391.	3.5	18
96	Graphite-Furnace Atomic Absorption Spectrometric Method for Direct Determination of Iron and Zinc in Solid Rice Samples.. <i>Analytical Sciences</i> , 1996, 12, 483-488.	1.6	18
97	Choline determination based on the intrinsic and the extrinsic (chemically modified) fluorescence of choline oxidase. <i>Analytical Biochemistry</i> , 2004, 334, 207-215.	2.4	18
98	Evaluation of gel electrophoresis techniques and laser ablationâ€“inductively coupled plasma-mass spectrometry for screening analysis of Zn and Cu-binding proteins in plankton. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 359-368.	3.7	18
99	Effect of matrix components on chromium atomization processes in graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1988, 43, 263-271.	2.9	17
100	Rapid determination of lead by analysis of solid samples using graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1992, 7, 1075.	3.0	17
101	Determination of Nickel and Vanadium in Oil By Inductively Coupled Plasma-Atomic Emission Spectrometry With Microemulsion Sample Introduction.. <i>Analytical Letters</i> , 1998, 31, 903-911.	1.8	17
102	Chemical vapor generation for sample introduction into inductively coupled plasma atomic emission spectroscopy: vaporization of antimony(iii) with bromide. <i>Analyst, The</i> , 2002, 127, 1386-1391.	3.5	17
103	Binding capacity of casein to lead and voltammetric speciation of lead in milk with a nafion coated electrode. <i>Electroanalysis</i> , 1992, 4, 653-659.	2.9	16
104	Use of the median in the direct determination of cadmium in solid samples by electrothermal atomic absorption spectrometry. <i>Analyst, The</i> , 1995, 120, 2813.	3.5	16
105	Tandem Preconcentration of Cobalt by On-line Ion Exchange and Gas Phase Chelates Generated by Merging-zones Flow Injection Analysis With Electrothermal Atomic Absorption Spectrometric Determination. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1397-1402.	3.0	16
106	Screening of antimony in PVC by solid sampling-graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 1998, 46, 1265-1272.	5.5	16
107	Voltammetry of immobilised microparticles: a powerful analytical technique to study the physical and chemical composition of brass. <i>Journal of Electroanalytical Chemistry</i> , 2001, 513, 52-58.	3.8	16
108	New sensitive determination of selenium by bromide volatilization inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 352-357.	3.0	16

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109	A Multi- $\mu$ electrochemical Competitive Immunosensor for Sensitive Cocaine Determination in Biological Samples. <i>Electroanalysis</i> , 2016, 28, 685-694.	2.9	16
110	Determination of metals in poly(vinyl chloride) by atomic absorption spectrometry. Part 3. Determination of cadmium, antimony and tin in samples of poly(vinyl chloride) with carbon black. <i>Journal of Analytical Atomic Spectrometry</i> , 1988, 3, 591.	3.0	15
111	Determination of cadmium by electrothermal atomisation atomic absorption spectrometry after electrodeposition on a L'vov platform. <i>Analyst, The</i> , 1990, 115, 539.	3.5	15
112	Observations on the determination of osmium by inductively-coupled plasma atomic emission spectroscopy. <i>Talanta</i> , 1990, 37, 895-899.	5.5	15
113	Speciation of Cr(VI)/Cr(III) by electrothermal atomisation AAS after electrodeposition on a L'vov platform. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 344, 234-241.	1.5	15
114	Inter-laboratory note. Gas-liquid separator for automated hydride generation and atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 1121-1122.	3.0	15
115	Gaseous sample introduction for the determination of silicon by ICP-AES. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 358, 599-603.	1.5	15
116	Volatile species of arsenic(III) with fluoride for gaseous sample introduction into the inductively coupled plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 215-220.	3.0	15
117	Flame Atomic Absorption Spectrometric Determination of Arsenic After Volatilization of As(III) with Chloride Ions. <i>Mikrochimica Acta</i> , 1999, 131, 225-230.	5.0	15
118	Direct Fluorometric Determination of Total Cholesterol in Serum Using Derivatized Cholesterol Oxidase. <i>Applied Spectroscopy</i> , 2000, 54, 1157-1162.	2.2	15
119	Volatile germanium tetrachloride for sample introduction and germanium determination by inductively coupled plasma atomic emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 744-749.	3.0	15
120	Direct reduction of As(V) physically attached to a graphite electrode mediated by Fe(III). <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1171-1176.	2.9	15
121	Silver nanoparticle detection and characterization in silver colloidal products using screen printed electrodes. <i>Analytical Methods</i> , 2014, 6, 3072-3078.	2.7	15
122	Selectivity of silver nanoparticle sensors: Discrimination between silver nanoparticles and Ag <sup>+</sup> . <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 25-30.	7.8	15
123	Evaluation of hydrodynamic chromatography coupled to inductively coupled plasma mass spectrometry for speciation of dissolved and nanoparticulate gold and silver. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1689-1699.	3.7	15
124	Determination of chromium by AAS using volatile <sup>2</sup> -diketonate complexes. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1987, 328, 56-60.	0.8	14
125	Antimony determination by hydride generation $\mu$ UV-visible molecular absorption spectrophotometry with diode-array detection. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988, 330, 510-515.	0.8	14
126	Determination of metals in poly(vinyl chloride) by atomic absorption spectrometry. Part 4. Determination of lead and aluminium in samples of poly(vinyl chloride) with a high content of silicates. <i>Journal of Analytical Atomic Spectrometry</i> , 1989, 4, 101.	3.0	14



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127	On-line thermospray continuous volatilization of cobalt, aluminium and chromium volatile chelates and determination by heated quartz tube atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 665-669.	3.0	14
128	Comparison of palladium and zirconium treated graphite tubes for in-atomizer trapping of hydrogen selenide in hydride generation electrothermal atomization atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 343-353.	2.9	14
129	Electroanalytical Determination of Arsenic(III) and Total Arsenic in $1 \mu\text{mol L}^{-1}$ HCl Using a Carbonaceous Electrode Without a Reducing Agent. <i>Analytical Letters</i> , 2009, 42, 1971-1985.	1.8	14
130	Characterization of metal-humic acid complexes by polyacrylamide gel electrophoresis-laser ablation-inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2010, 676, 9-14.	5.4	14
131	Determination of lead and cadmium in samples of poly(vinyl chloride) by electrothermal atomic absorption spectrometry using organic solvents. <i>Analyst, The</i> , 1990, 115, 955.	3.5	13
132	Estimation of the quantification uncertainty from flow injection and liquid chromatography transient signals in inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 857-870.	2.9	13
133	Electrochemical screening procedure for arsenic contaminated soils. <i>Talanta</i> , 2005, 66, 875-881.	5.5	13
134	Determination of antimony by electrochemical hydride generation atomic absorption spectrometry in samples with high iron content using chelating resins as on-line removal system. <i>Analytica Chimica Acta</i> , 2006, 569, 227-233.	5.4	13
135	Study of the size-based environmental availability of metals associated to natural organic matter by stable isotope exchange and quadrupole inductively coupled plasma mass spectrometry coupled to asymmetrical flow field flow fractionation. <i>Journal of Chromatography A</i> , 2011, 1218, 4199-4205.	3.7	13
136	Evaluation of agarose gel electrophoresis for characterization of silver nanoparticles in industrial products. <i>Electrophoresis</i> , 2016, 37, 1376-1383.	2.4	13
137	Speciation of antimony by differential generation of its volatile covalent hydride in aqueous and organic phase. <i>Mikrochimica Acta</i> , 1986, 90, 95-103.	5.0	12
138	Study of the interference of iron and mercury in the determination of antimony by hydride generation atomic absorption spectrometry: use of speciation models. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 651-655.	3.0	12
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