

Manuel Miro

List of Publications by Year in descending order

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198
papers

6,012
citations

66315

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128225

60
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415
all docs

415
docs citations

415
times ranked

4416
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemometric tools in electroanalytical chemistry: Methods for optimization based on factorial design and response surface methodology. <i>Microchemical Journal</i> , 2009, 92, 58-67.	2.3	222
2	High-Resolution Colorimetric Assay for Rapid Visual Readout of Phosphatase Activity Based on Gold/Silver Core/Shell Nanorod. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18243-18250.	4.0	217
3	Determination of plutonium isotopes in waters and environmental solids: A review. <i>Analytica Chimica Acta</i> , 2009, 652, 66-84.	2.6	116
4	How flow-injection analysis (FIA) over the past 25 years has changed our way of performing chemical analyses. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 18-26.	5.8	102
5	Automated On-Line Renewable Solid-Phase Extraction-Liquid Chromatography Exploiting Multisyringe Flow Injection-Bead Injection Lab-on-Valve Analysis. <i>Analytical Chemistry</i> , 2006, 78, 2832-2840.	3.2	98
6	Slurry Sampling—An Analytical Strategy for the Determination of Metals and Metalloids by Spectroanalytical Techniques. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 44-62.	3.4	95
7	Multisyringe flow injection analysis: characterization and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 199-210.	5.8	93
8	Application of flowing stream techniques to water analysis. <i>Talanta</i> , 2004, 63, 201-223.	2.9	86
9	Sequential injection—bead injection—lab-on-valve schemes for on-line solid phase extraction and preconcentration of ultra-trace levels of heavy metals with determination by electrothermal atomic absorption spectrometry and inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2003, 499, 139-147.	2.6	84
10	Miniaturization of environmental chemical assays in flowing systems: The lab-on-a-valve approach vis-à-vis lab-on-a-chip microfluidic devices. <i>Analytica Chimica Acta</i> , 2007, 600, 46-57.	2.6	83
11	Dynamic flow-through approaches for metal fractionation in environmentally relevant solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 759-771.	5.8	69
12	Recent Developments in Flow Injection/Sequential Injection Liquid-Liquid Extraction for Atomic Spectrometric Determination of Metals and Metalloids. <i>Applied Spectroscopy Reviews</i> , 2009, 44, 140-167.	3.4	68
13	Pre-concentration procedure for determination of copper and zinc in food samples by sequential multi-element flame atomic absorption spectrometry. <i>Talanta</i> , 2008, 77, 73-76.	2.9	65
14	Recent advances and future prospects of mesofluidic Lab-on-a-Valve platforms in analytical sciences — A critical review. <i>Analytica Chimica Acta</i> , 2012, 750, 3-15.	2.6	65
15	Extraction and Fractionation Methods for Exposure Assessment of Trace Metals, Metalloids, and Hazardous Organic Compounds in Terrestrial Environments. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 1117-1171.	6.6	64
16	Exploiting the bead-injection approach in the integrated sequential injection lab-on-valve format using hydrophobic packing materials for on-line matrix removal and preconcentration of trace levels of cadmium in environmental and biological samples via formation of non-charged chelates prior to ETAAS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 89-98.	1.6	63
17	Recent developments in automatic solid-phase extraction with renewable surfaces exploiting flow-based approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 749-761.	5.8	63
18	The emerging role of 3D printing in the fabrication of detection systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 136, 116177.	5.8	63

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19	Multicomponent sequential injection analysis determination of nitro-phenols in waters by on-line liquid-liquid extraction and preconcentration. <i>Analytica Chimica Acta</i> , 2000, 421, 155-166.	2.6	62
20	Magnetic bead-based fluorescence immunoassay for aflatoxin B1 in food using biofunctionalized rhodamine B-doped silica nanoparticles. <i>Analyst, The</i> , 2010, 135, 2661.	1.7	60
21	Opportunities for 3D printed millifluidic platforms incorporating on-line sample handling and separation. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 13-22.	5.8	60
22	Microextraction approaches for bioanalytical applications: An overview. <i>Journal of Chromatography A</i> , 2020, 1616, 460790.	1.8	58
23	Application of flowing stream techniques to water analysis. Part I. Ionic species: dissolved inorganic carbon, nutrients and related compounds. <i>Talanta</i> , 2003, 60, 867-886.	2.9	57
24	Universal Approach for Selective Trace Metal Determinations via Sequential Injection~Bead Injection~Lab-on-Valve Using Renewable Hydrophobic Bead Surfaces as Reagent Carriers. <i>Analytical Chemistry</i> , 2005, 77, 6032-6040.	3.2	56
25	Rapid Determination of Plutonium Isotopes in Environmental Samples Using Sequential Injection Extraction Chromatography and Detection by Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8185-8192.	3.2	55
26	On-line sample processing involving microextraction techniques as a front-end to atomic spectrometric detection for trace metal assays: A review. <i>Analytica Chimica Acta</i> , 2013, 782, 1-11.	2.6	55
27	Dual wetting-film multi-syringe flow injection analysis extraction. <i>Analytica Chimica Acta</i> , 2001, 438, 103-116.	2.6	54
28	Rapid and simultaneous determination of neptunium and plutonium isotopes in environmental samples by extraction chromatography using sequential injection analysis and ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1769.	1.6	54
29	Automated membrane-based sampling and sample preparation exploiting flow-injection analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 624-636.	5.8	53
30	A multisyringe flow injection method for the automated determination of sulfide in waters using a miniaturised optical fiber spectrophotometer. <i>Talanta</i> , 2004, 64, 1119-1126.	2.9	53
31	The potential of microdialysis as an automatic sample-processing technique for environmental research. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 324-333.	5.8	51
32	On-line renewable solid-phase extraction hyphenated to liquid chromatography for the determination of UV filters using bead injection and multisyringe-lab-on-valve approach. <i>Journal of Chromatography A</i> , 2010, 1217, 3575-3582.	1.8	51
33	Time-based multisyringe flow injection system for the spectrofluorimetric determination of aluminium. <i>Analytica Chimica Acta</i> , 2002, 455, 149-157.	2.6	49
34	Solid reactors in sequential injection analysis: recent trends in the environmental field. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 267-281.	5.8	47
35	Online Coupling of Bead Injection Lab-On-Valve Analysis to Gas Chromatography: Application to the Determination of Trace Levels of Polychlorinated Biphenyls in Solid Waste Leachates. <i>Analytical Chemistry</i> , 2009, 81, 4822-4830.	3.2	47
36	Flow-through Dispersed Carbon Nanofiber-Based Microsolid-Phase Extraction Coupled to Liquid Chromatography for Automatic Determination of Trace Levels of Priority Environmental Pollutants. <i>Analytical Chemistry</i> , 2011, 83, 5237-5244.	3.2	47

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37	Sequential injection spectrophotometric analysis of nitrite in natural waters using an on-line solid-phase extraction and preconcentration method. <i>Analyst, The</i> , 2000, 125, 943-948.	1.7	46
38	3D Printing: The Second Dawn of Lab-On-Valve Fluidic Platforms for Automatic (Bio)Chemical Assays. <i>Analytical Chemistry</i> , 2019, 91, 1140-1149.	3.2	46
39	Hyphenating Multisyringe Flow Injection Lab-on-Valve Analysis with Atomic Fluorescence Spectrometry for On-Line Bead Injection Preconcentration and Determination of Trace Levels of Hydride-Forming Elements in Environmental Samples. <i>Analytical Chemistry</i> , 2006, 78, 8290-8298.	3.2	45
40	Online Hyphenation of Multimodal Microsolid Phase Extraction Involving Renewable Molecularly Imprinted and Reversed-Phase Sorbents to Liquid Chromatography for Automatic Multiresidue Assays. <i>Analytical Chemistry</i> , 2010, 82, 3052-3060.	3.2	45
41	On-line dynamic extraction and automated determination of readily bioavailable hexavalent chromium in solid substrates using micro-sequential injection bead-injection lab-on-valve hyphenated with electrothermal atomic absorption spectrometry. <i>Analyst, The</i> , 2006, 131, 132-140.	1.7	44
42	Automated Sequential Injection-Microcolumn Approach with On-Line Flame Atomic Absorption Spectrometric Detection for Implementing Metal Fractionation Schemes of Homogeneous and Nonhomogeneous Solid Samples of Environmental Interest. <i>Analytical Chemistry</i> , 2005, 77, 2720-2726.	3.2	43
43	Flow-through solid-phase based optical sensor for the multisyringe flow injection trace determination of orthophosphate in waters with chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2004, 506, 17-24.	2.6	42
44	Flow-through optical fiber sensor for automatic sulfide determination in waters by multisyringe flow injection analysis using solid-phase reflectometry. <i>Analyst, The</i> , 2005, 130, 644-651.	1.7	42
45	High-Throughput Sequential Injection Method for Simultaneous Determination of Plutonium and Neptunium in Environmental Solids Using Macroporous Anion-Exchange Chromatography, Followed by Inductively Coupled Plasma Mass Spectrometric Detection. <i>Analytical Chemistry</i> , 2011, 83, 374-381.	3.2	42
46	Analytical potential of mesofluidic lab-on-a-valve as a front end to column-separation systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 153-164.	5.8	42
47	Extraction for analytical scale sample preparation (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 649-687.	0.9	42
48	Determination of trace metal ions via on-line separation and preconcentration by means of chelating Sepharose beads in a sequential injection lab-on-valve (SI-LOV) system coupled to electrothermal atomic absorption spectrometric detection. <i>Talanta</i> , 2005, 66, 1326-1332.	2.9	41
49	On-line sorptive preconcentration platform incorporating a readily exchangeable Oasis HLB extraction micro-cartridge for trace cadmium and lead determination by flow injection flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2011, 98, 66-71.	2.3	41
50	Monitoring of environmental parameters by sequential injection analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2001, 20, 407-418.	5.8	40
51	Flow-through solid-phase reflectometric method for simultaneous multiresidue determination of nitrophenol derivatives. <i>Analytica Chimica Acta</i> , 2007, 600, 155-163.	2.6	40
52	Carbon nanospheres-promoted electrochemical immunoassay coupled with hollow platinum nanolabels for sensitivity enhancement. <i>Biosensors and Bioelectronics</i> , 2012, 35, 394-400.	5.3	40
53	3D-Printed Microflow Injection Analysis Platform for Online Magnetic Nanoparticle Sorptive Extraction of Antimicrobials in Biological Specimens as a Front End to Liquid Chromatographic Assays. <i>Analytical Chemistry</i> , 2017, 89, 12541-12549.	3.2	40
54	Sequential Injection ⁹⁰ Sr Determination in Environmental Samples Using a Wetting-Film Extraction Method. <i>Analytical Chemistry</i> , 2002, 74, 826-833.	3.2	39

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55	Exploiting automatic on-line renewable molecularly imprinted solid-phase extraction in lab-on-valve format as front end to liquid chromatography: application to the determination of riboflavin in foodstuffs. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 77-86.	1.9	39
56	In-line carbon nanofiber reinforced hollow fiber-mediated liquid phase microextraction using a 3D printed extraction platform as a front end to liquid chromatography for automatic sample preparation and analysis: A proof of concept study. <i>Talanta</i> , 2018, 185, 611-619.	2.9	39
57	Assessing population exposure to phthalate plasticizers in thirteen Spanish cities through the analysis of wastewater. <i>Journal of Hazardous Materials</i> , 2021, 401, 123272.	6.5	39
58	Flow-through sorptive preconcentration with direct optosensing at solid surfaces for trace-ion analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 11-20.	5.8	37
59	An automatic micro-sequential injection bead injection Lab-on-Valve (μ SI-BI-LOV) assembly for speciation analysis of ultra trace levels of Cr(III) and Cr(VI) incorporating on-line chemical reduction and employing detection by electrothermal atomic absorption spectrometry (ETAAS). <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1203.	1.6	37
60	Coupling of Sequential Injection Chromatography with Multivariate Curve Resolution-Alternating Least-Squares for Enhancement of Peak Capacity. <i>Analytical Chemistry</i> , 2007, 79, 7767-7774.	3.2	37
61	CocoSoft: educational software for automation in the analytical chemistry laboratory. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6227-6233.	1.9	37
62	Determination of ultratracés of nitrite by solid-phase preconcentration using a novel flow-through spectrophotometric optrode. <i>Analytica Chimica Acta</i> , 2001, 437, 55-65.	2.6	36
63	Implantable Flow-Through Capillary-Type Microdialyzers for Continuous in Situ Monitoring of Environmentally Relevant Parameters. <i>Analytical Chemistry</i> , 2004, 76, 5974-5981.	3.2	35
64	Multi-syringe flow injection solid-phase extraction system for on-line simultaneous spectrophotometric determination of nitro-substituted phenol isomers. <i>Analytica Chimica Acta</i> , 2007, 582, 41-49.	2.6	35
65	Glossary of terms used in extraction (IUPAC Recommendations 2016). <i>Pure and Applied Chemistry</i> , 2016, 88, 517-558.	0.9	35
66	A flow-based platform hyphenated to on-line liquid chromatography for automatic leaching tests of chemical additives from microplastics into seawater. <i>Journal of Chromatography A</i> , 2019, 1602, 160-167.	1.8	35
67	Application of flowing-stream techniques to water analysis. <i>Talanta</i> , 2004, 62, 1-15.	2.9	34
68	What Flow Injection has to Offer in the Environmental Analytical Field. <i>Mikrochimica Acta</i> , 2004, 148, 1.	2.5	33
69	Potentials of multisyringe flow injection analysis for chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2005, 541, 55-66.	2.6	33
70	Sequential injection system incorporating a micro-extraction column for automatic fractionation of metal ions in solid samples. <i>Analytica Chimica Acta</i> , 2005, 536, 183-190.	2.6	33
71	Highly selective micro-sequential injection lab-on-valve (μ SI-LOV) method for the determination of ultra-trace concentrations of nickel in saline matrices using detection by electrothermal atomic absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 739-748.	1.9	33
72	Recent trends in automatic dynamic leaching tests for assessing bioaccessible forms of trace elements in solid substrates. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 45, 67-78.	5.8	33

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73	Programmable flow-based dynamic sorptive microextraction exploiting an octadecyl chemically modified rotating disk extraction system for the determination of acidic drugs in urine. <i>Journal of Chromatography A</i> , 2014, 1368, 64-69.	1.8	33
74	Interfacing Microfluidic Handling with Spectroscopic Detection for Real-Life Applications via the Lab-on-Valve Platform: A Review. <i>Applied Spectroscopy Reviews</i> , 2008, 43, 335-357.	3.4	31
75	A mesofluidic platform integrating restricted access-like sorptive microextraction as a front end to ICP-AES for the determination of trace level concentrations of lead and cadmium as contaminants in honey. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 473-481.	1.6	31
76	Trends in analytical separations of magnetic (nano)particles. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 114, 89-97.	5.8	31
77	The embodiment of wastewater data for the estimation of illicit drug consumption in Spain. <i>Science of the Total Environment</i> , 2021, 772, 144794.	3.9	31
78	Fully Automatic In-Syringe Magnetic Stirring-Assisted Dispersive Liquid-Liquid Microextraction Hyphenated to High-Temperature Torch Integrated Sample Introduction System-Inductively Coupled Plasma Spectrometer with Direct Injection of the Organic Phase. <i>Analytical Chemistry</i> , 2017, 89, 3787-3794.	3.2	30
79	The potential of flow-through microdialysis for probing low-molecular weight organic anions in rhizosphere soil solution. <i>Analytica Chimica Acta</i> , 2005, 546, 1-10.	2.6	29
80	A novel dynamic approach for automatic microsampling and continuous monitoring of metal ion release from soils exploiting a dedicated flow-through microdialyser. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 396-404.	1.9	29
81	Modulation of mobile phase composition in flow-injection/sequential-injection chromatography exploiting multisyringe flow analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 817-825.	1.9	29
82	Where are modern flow techniques heading to?. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6361-6370.	1.9	29
83	A multisyringe flow injection system with immobilized glucose oxidase based on homogeneous chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2004, 508, 23-30.	2.6	28
84	Miniaturized optical chemosensor for flow-based assays. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1381-1387.	1.9	28
85	Sequential injection spectrophotometric determination of orthophosphate in beverages, wastewaters and urine samples by electrogeneration of molybdenum blue using tubular flow-through electrodes. <i>Analytica Chimica Acta</i> , 2004, 510, 61-68.	2.6	27
86	Bead Injection Extraction Chromatography Using High-Capacity Lab-on-Valve as a Front End to Inductively Coupled Plasma Mass Spectrometry for Urine Radiobioassay. <i>Analytical Chemistry</i> , 2013, 85, 2853-2859.	3.2	27
87	Multisyringe flow injection spectrofluorimetric determination of warfarin at trace levels with on-line solid-phase preconcentration. <i>Analytica Chimica Acta</i> , 2002, 467, 13-23.	2.6	26
88	In-situ sampling of soil pore water: evaluation of linear-type microdialysis probes and suction cups at varied moisture contents. <i>Environmental Chemistry</i> , 2010, 7, 123.	0.7	26
89	Towards the development of a miniaturized fiberless optofluidic biosensor for glucose. <i>Talanta</i> , 2012, 96, 113-120.	2.9	26
90	Assessing oral bioaccessibility of trace elements in soils under worst-case scenarios by automated in-line dynamic extraction as a front end to inductively coupled plasma atomic emission spectrometry. <i>Analytica Chimica Acta</i> , 2014, 842, 1-10.	2.6	26

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91	Dynamic single-interface hollow fiber liquid phase microextraction of Cr(VI) using ionic liquid containing supported liquid membrane. <i>Talanta</i> , 2016, 161, 730-734.	2.9	26
92	A novel flow-through disk-based solid-phase extraction diffuse reflectance optrode. Application to preconcentration and determination of trace levels of nitrite. <i>Analyst</i> , The, 2001, 126, 1740-1746.	1.7	25
93	Implementation of chemiluminescence detection in the multisyringe flow injection technique. <i>Analytica Chimica Acta</i> , 2002, 467, 155-166.	2.6	25
94	Simultaneous determination of fluorophores with overlapped spectra by sequential injection analysis coupled to variable angle scanning fluorescence spectrometry and multivariate linear regression algorithms. <i>Analytica Chimica Acta</i> , 2002, 471, 173-186.	2.6	25
95	An intelligent flow analyser for the in-line concentration, speciation and monitoring of metals at trace levels. <i>Talanta</i> , 2004, 62, 887-895.	2.9	25
96	Reliable determination of ²³⁷ Np in environmental solid samples using ²⁴² Pu as a potential tracer. <i>Talanta</i> , 2011, 84, 494-500.	2.9	25
97	Hybrid flow analyzer for automatic hollow-fiber-assisted ionic liquid-based liquid-phase microextraction with in-line membrane regeneration. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3279-3288.	1.9	25
98	On-chip microsolid-phase extraction in a disposable sorbent format using mesofluidic platforms. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 154-161.	5.8	25
99	In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4) Tj ETQq1 1 0.784314 rgBT/Overloc	4.2	25
100	Reliable Sensing Platform for Plasmonic Enzyme-Linked Immunosorbent Assays Based on Automatic Flow-Based Methodology. <i>Analytical Chemistry</i> , 2019, 91, 13260-13267.	3.2	25
101	Development of a simple extraction cell with bi-directional continuous flow coupled on-line to ICP-MS for assessment of elemental associations in solid samples. <i>Journal of Environmental Monitoring</i> , 2006, 8, 1248.	2.1	24
102	The potential of downscaled dynamic column extraction for fast and reliable assessment of natural weathering effects of municipal solid waste incineration bottom ashes. <i>Analytica Chimica Acta</i> , 2008, 619, 192-201.	2.6	24
103	Rapid isolation of plutonium in environmental solid samples using sequential injection anion exchange chromatography followed by detection with inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 685, 111-119.	2.6	24
104	In-line membrane separation method for sulfide monitoring in wastewaters exploiting multisyringe flow injection analysis. <i>Analytica Chimica Acta</i> , 2004, 524, 89-96.	2.6	23
105	Automated Enzymatic Assays in a Renewable Fashion Using the Multisyringe Flow Injection Scheme with Soluble Enzymes. <i>Analytical Chemistry</i> , 2004, 76, 773-780.	3.2	23
106	Highly integrated flow assembly for automated dynamic extraction and determination of readily bioaccessible chromium(VI) in soils exploiting carbon nanoparticle-based solid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2217-2227.	1.9	23
107	A novel flow-through microdialysis separation unit with integrated differential potentiometric detection for the determination of chloride in soil samples. <i>Analyst</i> , The, 2003, 128, 1291-1297.	1.7	22
108	Recent Advances in On-line Solvent Extraction Exploiting Flow Injection/Sequential Injection Analysis. <i>Current Analytical Chemistry</i> , 2005, 1, 329-343.	0.6	22

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109	In-vitro estimation of bioaccessibility of chlorinated organophosphate flame retardants in indoor dust by fasting and fed physiologically relevant extraction tests. <i>Science of the Total Environment</i> , 2017, 580, 540-549.	3.9	22
110	Online coupling of fully automatic in-syringe dispersive liquid-liquid microextraction with oxidative back-extraction to inductively coupled plasma spectrometry for sample clean-up in elemental analysis: A proof of concept. <i>Talanta</i> , 2017, 173, 79-87.	2.9	22
111	High-throughput microscale extraction using ionic liquids and derivatives: A review. <i>Journal of Separation Science</i> , 2020, 43, 1890-1907.	1.3	22
112	3D printed fluidic platform with in-situ covalently immobilized polymer monolithic column for automatic solid-phase extraction. <i>Analytica Chimica Acta</i> , 2020, 1111, 40-48.	2.6	22
113	Combining graphite with hollow-fiber liquid-phase microextraction for improving the extraction efficiency of relatively polar organic compounds. <i>Talanta</i> , 2020, 215, 120902.	2.9	22
114	Investigation of chemical effects on the performance of flow-through dialysis applied to the determination of ionic species. <i>Analytica Chimica Acta</i> , 2004, 512, 311-317.	2.6	21
115	Rapid chemiluminometric determination of gabapentin in pharmaceutical formulations exploiting pulsed-flow analysis. <i>Luminescence</i> , 2009, 24, 10-14.	1.5	21
116	Dynamic fractionation of trace metals in soil and sediment samples using rotating coiled column extraction and sequential injection microcolumn extraction: A comparative study. <i>Talanta</i> , 2009, 79, 1081-1088.	2.9	21
117	Integrated Lab-in-Syringe Platform Incorporating a Membraneless Gas-Liquid Separator for Automatic Cold Vapor Atomic Absorption Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 8968-8972.	3.2	21
118	A novel on-line organic mercury digestion method combined with atomic fluorescence spectrometry for automatic mercury speciation. <i>Talanta</i> , 2018, 189, 220-224.	2.9	21
119	Analytical methodologies for reliable sulfide determinations in aqueous matrices exploiting flow-based approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 413-422.	5.8	20
120	Critical evaluation of novel dynamic flow-through methods for automatic sequential BCR extraction of trace metals in fly ash. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 337-349.	1.9	20
121	Integrated lab-on-a-valve platform incorporating a sorbent microcolumn and membraneless gas-liquid separation for cold vapor generation-atomic fluorescence spectrometric assays. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1717.	1.6	20
122	Fluidized-bed column method for automatic dynamic extraction and determination of trace element bioaccessibility in highly heterogeneous solid wastes. <i>Analytica Chimica Acta</i> , 2010, 658, 41-48.	2.6	19
123	Automatic Kinetic Bioaccessibility Assay of Lead in Soil Environments Using Flow-through Microdialysis as a Front End to Electrothermal Atomic Absorption Spectrometry. <i>Environmental Science & Technology</i> , 2014, 48, 6282-6290.	4.6	19
124	Fully Automated Electric-Field-Driven Liquid Phase Microextraction System with Renewable Organic Membrane As a Front End to High Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 2019, 91, 10808-10815.	3.2	19
125	On-line dynamic fractionation and automatic determination of inorganic phosphorus in environmental solid substrates exploiting sequential injection microcolumn extraction and flow injection analysis. <i>Analytica Chimica Acta</i> , 2006, 570, 224-231.	2.6	18
126	Recent Developments in Automated Determinations of Trace Level Concentrations of Elements and On-Line Fractionation Schemes Exploiting the Micro-Sequential Injection Lab-On-Valve Approach. <i>Analytical Letters</i> , 2006, 39, 1243-1259.	1.0	18

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127	Multiple Stirred-Flow Chamber Assembly for Simultaneous Automatic Fractionation of Trace Elements in Fly Ash Samples Using a Multisyringe-Based Flow System. <i>Analytical Chemistry</i> , 2008, 80, 7319-7326.	3.2	18
128	Towards an automatic lab-on-valve-ion mobility spectrometric system for detection of cocaine abuse. <i>Journal of Chromatography A</i> , 2017, 1512, 43-50.	1.8	18
129	On-line microcolumn-based dynamic leaching method for investigation of lead bioaccessibility in shooting range soils. <i>Chemosphere</i> , 2020, 256, 127022.	4.2	18
130	Interfacing in-line gas-diffusion separation with optrode sorptive preconcentration exploiting multisyringe flow injection analysis. <i>Talanta</i> , 2005, 68, 343-350.	2.9	17
131	Fractionation and Mobility of Trace Elements in Soils and Sediments. , 2007, , 467-520.		16
132	A multisyringe flow-through sequential extraction system for on-line monitoring of orthophosphate in soils and sediments. <i>Talanta</i> , 2007, 71, 1710-1719.	2.9	16
133	Universal approach for mesofluidic handling of bead suspensions in lab-on-valve format. <i>Talanta</i> , 2011, 84, 846-852.	2.9	16
134	An assessment of the ultrasonic probe-based enhancement of protein cleavage with immobilized trypsin. <i>Proteomics</i> , 2011, 11, 3866-3876.	1.3	16
135	Ecotoxicological equilibria of triclosan in Microtox, XenoScreen YES/YAS, Caco2, HEPG2 and liposomal systems are affected by the occurrence of other pharmaceutical and personal care emerging contaminants. <i>Science of the Total Environment</i> , 2020, 719, 137358.	3.9	16
136	On-line speciation analysis of inorganic arsenic in complex environmental aqueous samples by pervaporation sequential injection analysis. <i>Talanta</i> , 2013, 117, 8-13.	2.9	15
137	Recent Advances and Perspectives in Analytical Methodologies for Monitoring the Bioavailability of Trace Metals in Environmental Solid Substrates. <i>Mikrochimica Acta</i> , 2006, 154, 3-13.	2.5	14
138	Automatic dynamic chemical fractionation method with detection by plasma spectrometry for advanced characterization of solid biofuels. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 841.	1.6	14
139	Hybrid flow system integrating a miniaturized optoelectronic detector for on-line dynamic fractionation and fluorometric determination of bioaccessible orthophosphate in soils. <i>Talanta</i> , 2015, 133, 59-65.	2.9	14
140	In-vitro physiologically based extraction of solid materials: Do we have reliable analytical methods for bioaccessibility studies of emerging organic contaminants?. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 91, 42-52.	5.8	13
141	On-line sample treatment coupled with atomic spectrometric detection for the determination of trace elements in natural waters. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 643-670.	1.6	13
142	Source identification of amphetamine-like stimulants in Spanish wastewater through enantiomeric profiling. <i>Water Research</i> , 2021, 206, 117719.	5.3	13
143	Pressure-driven mesofluidic platform integrating automated on-chip renewable micro-solid-phase extraction for ultrasensitive determination of waterborne inorganic mercury. <i>Talanta</i> , 2013, 110, 58-65.	2.9	12
144	New Insights into the Reliability of Automatic Dynamic Methods for Oral Bioaccessibility Testing: A Case Study for BGS102 soil. <i>Environmental Science & Technology</i> , 2016, 50, 9479-9486.	4.6	12

#	ARTICLE	IF	CITATIONS
145	Complementary assessment of As, Cu and Zn environmental availability in a stabilised contaminated soil using large-bore column leaching, automatic microcolumn extraction and DGT analysis. <i>Science of the Total Environment</i> , 2019, 690, 217-225.	3.9	11
146	Miniaturisation and automation of metal fractionation schemes applied to environmental solid samples by sequential injection microcolumn extraction procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 878-880.	1.9	10
147	The Potentials of the Third Generation of Flow Injection Analysis for Nutrient Monitoring and Fractionation Analysis. <i>Environmental Chemistry</i> , 2006, 3, 26.	0.7	10
148	A multisyringe flow injection Winkler-based spectrophotometric analyzer for in-line monitoring of dissolved oxygen in seawater. <i>Talanta</i> , 2010, 80, 1341-1346.	2.9	10
149	On-line coupling of physiologically relevant bioaccessibility testing to inductively coupled plasma spectrometry: Proof of concept for fast assessment of gastrointestinal bioaccessibility of micronutrients from soybeans. <i>Analytica Chimica Acta</i> , 2016, 939, 1-9.	2.6	10
150	An automatic flow assembly for on-line dynamic fractionation of trace level concentrations of mercury in environmental solids with high organic load. <i>Analytica Chimica Acta</i> , 2017, 975, 1-10.	2.6	10
151	Modeling Dispersal of UV Filters in Estuaries. <i>Environmental Science & Technology</i> , 2019, 53, 1353-1363.	4.6	10
152	Evidence of high bioaccessibility of gadolinium-contrast agents in natural waters after human oral uptake. <i>Science of the Total Environment</i> , 2021, 793, 148506.	3.9	10
153	Mimicking human ingestion of microplastics: Oral bioaccessibility tests of bisphenol A and phthalate esters under fed and fasted states. <i>Science of the Total Environment</i> , 2022, 826, 154027.	3.9	10
154	A critical examination of sorbent extraction pre-concentration with spectrophotometric sensing in flowing systems. <i>Talanta</i> , 2004, 64, 290-301.	2.9	9
155	On-line simultaneous pre-concentration procedure for the determination of cadmium and lead in drinking water employing sequential multi-element flame atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 1425-1435.	1.8	9
156	Automated Microdialysis-Based System for in Situ Microsampling and Investigation of Lead Bioavailability in Terrestrial Environments under Physiologically Based Extraction Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 11668-11675.	4.6	9
157	Hybrid Flow System for Automatic Dynamic Fractionation and Speciation of Inorganic Arsenic in Environmental Solids. <i>Environmental Science & Technology</i> , 2015, 49, 2733-2740.	4.6	9
158	Fluorescent Lipid Nanoparticles as Biomembrane Models for Exploring Emerging Contaminant Bioavailability Supported by Density Functional Theory Calculations. <i>Environmental Science & Technology</i> , 2016, 50, 7135-7143.	4.6	9
159	Human artificial membranes in (bio)analytical science: Potential for in vitro prediction of intestinal absorption-A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116446.	5.8	9
160	Comparison of sample preparation methods for reliable plutonium and neptunium urinalysis using automatic extraction chromatography. <i>Talanta</i> , 2014, 128, 75-82.	2.9	8
161	On-line monitoring of in-vitro oral bioaccessibility tests as front-end to liquid chromatography for determination of chlorogenic acid isomers in dietary supplements. <i>Talanta</i> , 2017, 166, 391-398.	2.9	8
162	On-line dynamic extraction system hyphenated to inductively coupled plasma optical emission spectrometry for automatic determination of oral bioaccessible trace metal fractions in airborne particulate matter. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2747-2756.	1.9	8

#	ARTICLE	IF	CITATIONS
163	A novel hybrid flow platform for on-line simultaneous dynamic fractionation and evaluation of mercury lability in environmental solids. <i>Talanta</i> , 2018, 178, 622-628.	2.9	8
164	Microscale extraction versus conventional approaches for handling gastrointestinal extracts in oral bioaccessibility assays of endocrine disrupting compounds from microplastic contaminated beach sand. <i>Environmental Pollution</i> , 2021, 272, 115992.	3.7	8
165	In-line sequential injection-based hollow-fiber sorptive microextraction as a front-end to gas chromatography-mass spectrometry: a novel fully automatic sample processing technique for residue analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8653-8662.	1.9	7
166	A mesofluidic platform integrating on-chip probe ultrasonication for multiple sample pretreatment involving denaturation, reduction, and digestion in protein identification assays by mass spectrometry. <i>Analyst</i> , The, 2014, 139, 992-995.	1.7	7
167	Automatic flow-through dynamic extraction: A fast tool to evaluate char-based remediation of multi-element contaminated mine soils. <i>Talanta</i> , 2016, 148, 686-693.	2.9	7
168	Dynamic flow-through approach to evaluate readily bioaccessible antioxidants in solid food samples. <i>Talanta</i> , 2017, 166, 162-168.	2.9	7
169	Cost-Effectiveness Analysis of Chlorine-Based and Alternative Disinfection Systems for Pool Waters. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	7
170	Combining in vitro oral bioaccessibility methods with biological assays for human exposome studies of contaminants of emerging concern in solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116040.	5.8	7
171	In-vitro prediction of the membranotropic action of emerging organic contaminants using a liposome-based multidisciplinary approach. <i>Science of the Total Environment</i> , 2020, 738, 140096.	3.9	7
172	Automated Sequential Injection-Capillary Electrophoresis for Dried Blood Spot Analysis: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2022, 94, 5301-5309.	3.2	7
173	Lab-on-a-Valve Mesofluidic Platform for On-Chip Handling of Carbon-Coated Titanium Dioxide Nanotubes in a Disposable Microsolid Phase-Extraction Mode. <i>Analytical Chemistry</i> , 2018, 90, 4783-4791.	3.2	6
174	Flow-through dynamic microextraction system for automatic in vitro assessment of chyme bioaccessibility in food commodities. <i>Analytica Chimica Acta</i> , 2018, 1026, 51-61.	2.6	6
175	Automatic Mesofluidic System Combining Dynamic Gastrointestinal Bioaccessibility with Lab-on-Valve-Based Sorptive Microextraction for Risk Exposure of Organic Emerging Contaminants in Filter-Feeding Organisms. <i>Analytical Chemistry</i> , 2019, 91, 5739-5746.	3.2	6
176	Automatic and renewable micro-solid-phase extraction based on bead injection lab-on-valve system for determination of tranexamic acid in urine by UHPLC coupled with tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 649-659.	1.9	6
177	3D printed spinning cup-shaped device for immunoaffinity solid-phase extraction of diclofenac in wastewaters. <i>Mikrochimica Acta</i> , 2022, 189, 173.	2.5	6
178	High-throughput automatic flow method for determination of trace concentrations of aluminum in dialysis concentrate solutions using salicylaldehyde picolinoylhydrazone as a turn-on fluorescent probe. <i>Talanta</i> , 2015, 133, 120-126.	2.9	5
179	Rapid estimation of readily leachable triazine residues in soils using automatic kinetic bioaccessibility assays followed by on-line sorptive clean-up as a front-end to liquid chromatography. <i>Talanta</i> , 2016, 156-157, 71-78.	2.9	5
180	Fully automatic flow-based device for monitoring of drug permeation across a cell monolayer. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 971-981.	1.9	5

#	ARTICLE	IF	CITATIONS
181	Dynamic leaching and fractionation of trace elements from environmental solids exploiting a novel circulating-flow platform. <i>Talanta</i> , 2016, 148, 617-625.	2.9	5
182	Scientific Activities for the Engagement of Undergraduate Students in the Separation and Recycling of Waste. <i>Journal of Chemical Education</i> , 2021, 98, 454-460.	1.1	5
183	An automatic flow-through system for exploration of the human bioaccessibility of endocrine disrupting compounds from microplastics. <i>Analyst, The</i> , 2021, 146, 3858-3870.	1.7	5
184	Automated flow-based anion-exchange method for high-throughput isolation and real-time monitoring of RuBisCO in plant extracts. <i>Talanta</i> , 2011, 84, 1259-1266.	2.9	3
185	Elucidation of associations of ash-forming matter in woody biomass residues using on-line chemical fractionation. <i>Fuel</i> , 2013, 107, 192-201.	3.4	3
186	Membrane Enhanced Bioaccessibility Extraction (MEBE) of hydrophobic soil pollutants – Using a semipermeable membrane for separating desorption medium and acceptor solvent. <i>Environmental Pollution</i> , 2020, 257, 113470.	3.7	3
187	3D printed extraction devices in the analytical laboratory – a case study of Soxhlet extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4373-4378.	1.9	3
188	In vitro bioaccessibility of metals from tape tea – A low-cost emerging drug. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 62, 126613.	1.5	2
189	Evaluation of the aluminum migration from metallic seals to coffee beverage after using a high-pressure coffee pod machine. <i>Journal of Food Composition and Analysis</i> , 2021, 104, 104131.	1.9	2
190	Atomic Spectroscopic Detection. <i>Comprehensive Analytical Chemistry</i> , 2008, 54, 375-405.	0.7	1
191	In quest of effect directed analysis in the smart laboratory: Automated system for flow-through evaluation of membranotropic effects of emerging contaminants. <i>Talanta</i> , 2020, 209, 120600.	2.9	1
192	3D printed permeation module to monitor interaction of cell membrane transporters with exogenic compounds in real-time. <i>Analytica Chimica Acta</i> , 2021, 1153, 338296.	2.6	1
193	Real-time monitoring of <i>Metridia</i> luciferase release from cells upon interaction with model toxic substances by a fully automatic flow setup – A proof of concept. <i>Talanta</i> , 2022, 245, 123465.	2.9	1
194	Flow Injection Analysis: Detection Techniques. , 2018, , 154-154.		0
195	Flow Injection Analysis – Environmental and Agricultural Applications. , 2018, , 164-164.		0
196	RECYCLING OF WASTE: A POWERFUL TOOL AS AN ACTIVE LEARNING METHODOLOGY FOR SCIENCE UNDERGRADUATES. , 2019, , .		0
197	EXPERIMENTAL LEARNING EXPERIENCES ORCHESTRATED BY UNDERGRADUATE COLLEGE STUDENTS TO ACTIVELY ENGAGE MIDDLE SCHOOL STUDENTS IN FOOD WASTE RECYCLING. , 2019, , .		0
198	3D Printing in Separation Science: Hype or Reality?. <i>Brazilian Journal of Analytical Chemistry</i> , 2020, 7, .	0.3	0