

Manuel Miro

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197
papers

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39
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415
ext. papers

5,422
ext. citations

7
avg, IF

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L-index

#	Paper	IF	Citations
197	Chemometric tools in electroanalytical chemistry: Methods for optimization based on factorial design and response surface methodology. <i>Microchemical Journal</i> , 2009 , 92, 58-67	4.8	189
196	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, 18243-50	9.5	183
195	Determination of plutonium isotopes in waters and environmental solids: A review. <i>Analytica Chimica Acta</i> , 2009 , 652, 66-84	6.6	96
194	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, 2832-40	7.8	91
193	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	14.6	90
192	Multisyringe flow injection analysis: characterization and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2002 , 21, 199-210	14.6	84
191	Slurry Sampling An Analytical Strategy for the Determination of Metals and Metalloids by Spectroanalytical Techniques. <i>Applied Spectroscopy Reviews</i> , 2010 , 45, 44-62	4.5	82
190	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	6.6	75
189	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	6.6	73
188	Application of flowing stream techniques to water analysis Part III. Metal ions: alkaline and alkaline-earth metals, elemental and harmful transition metals, and multielemental analysis. <i>Talanta</i> , 2004 , 63, 201-23	6.2	72
187	Dynamic flow-through approaches for metal fractionation in environmentally relevant solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 759-771	14.6	66
186	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	4.5	60
185	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, 73-6	6.2	60
184	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	14.6	60
183	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 with the EDTA ⁴⁻ detection mode. <i>Analytical Chemistry</i> , 2009 , 81, 89-98	3.7	59
182	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	6.6	57
181	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	11.1	57

180	Magnetic bead-based fluorescence immunoassay for aflatoxin B1 in food using biofunctionalized rhodamine B-doped silica nanoparticles. <i>Analyst, The</i> , 2010 , 135, 2661-7	5	57
179	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	6.6	55
178	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, 6032-40	7.8	54
177	Application of flowing stream techniques to water analysis. Part I. Ionic species: dissolved inorganic carbon, nutrients and related compounds. <i>Talanta</i> , 2003 , 60, 867-86	6.2	54
176	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	6.6	53
175	Automated membrane-based sampling and sample preparation exploiting flow-injection analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 624-636	14.6	51
174	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, 8185-92	7.8	47
173	A multisyringe flow injection method for the automated determination of sulfide in waters using a miniaturised optical fiber spectrophotometer. <i>Talanta</i> , 2004 , 64, 1119-26	6.2	47
172	Opportunities for 3D printed millifluidic platforms incorporating on-line sample handling and separation. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 13-22	14.6	46
171	Dual wetting-film multi-syringe flow injection analysis extraction. <i>Analytica Chimica Acta</i> , 2001 , 438, 103-116	6.6	46
170	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, 3575-82	4.5	45
169	The potential of microdialysis as an automatic sample-processing technique for environmental research. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 324-333	14.6	45
168	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, 5237-44	7.8	44
167	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, 4822-30	7.8	44
166	Time-based multisyringe flow injection system for the spectrofluorimetric determination of aluminium. <i>Analytica Chimica Acta</i> , 2002 , 455, 149-157	6.6	43
165	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	3.7	42
164	Solid reactors in sequential injection analysis: recent trends in the environmental field. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 267-281	14.6	42
163	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	4.8	41

162	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, 2720-6	7.8	41
161	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, 132-40	5	41
160	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, 3052-60	7.8	40
159	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, 8290-8	7.8	40
158	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, 644-51	5	38
157	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, 1326-32	6.2	38
156	Carbon nanospheres-promoted electrochemical immunoassay coupled with hollow platinum nanolabels for sensitivity enhancement. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 394-400	11.8	37
155	Sequential injection 90Sr determination in environmental samples using a wetting-film extraction method. <i>Analytical Chemistry</i> , 2002 , 74, 826-33	7.8	37
154	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	5	37
153	Coupling of sequential injection chromatography with multivariate curve resolution-alternating least-squares for enhancement of peak capacity. <i>Analytical Chemistry</i> , 2007 , 79, 7767-74	7.8	36
152	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	6.6	36
151	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	14.6	35
150	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	4.4	35
149	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	7.8	33
148	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, 41-9	6.6	33
147	Flow-through solid-phase reflectometric method for simultaneous multiresidue determination of nitrophenol derivatives. <i>Analytica Chimica Acta</i> , 2007 , 600, 155-63	6.6	33
146	Implantable flow-through capillary-type microdialyzers for continuous in situ monitoring of environmentally relevant parameters. <i>Analytical Chemistry</i> , 2004 , 76, 5974-81	7.8	33
145	Monitoring of environmental parameters by sequential injection analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2001 , 20, 407-418	14.6	33

144	Microextraction approaches for bioanalytical applications: An overview. <i>Journal of Chromatography A</i> , 2020 , 1616, 460790	4.5	33
143	An automatic micro-sequential injection bead injection Lab-on-Valve (BI-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> , 2017 , 32, 1883-1893	3.7	32
142	Sequential injection system incorporating a micro-extraction column for automatic fractionation of metal ions in solid samples: Comparison of the extraction profiles when employing uni-, bi-, and multi-bi-directional flow plus stopped-flow sequential extraction modes. <i>Analytica Chimica Acta</i> , 2005 , 536, 183-190	6.6	32
141	3D Printing: The Second Dawn of Lab-On-Valve Fluidic Platforms for Automatic (Bio)Chemical Assays. <i>Analytical Chemistry</i> , 2019 , 91, 1140-1149	7.8	32
140	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	4.5	31
139	What Flow Injection has to Offer in the Environmental Analytical Field. <i>Mikrochimica Acta</i> , 2004 , 148, 1	5.8	31
138	Application of flowing-stream techniques to water analysis Part II. General quality parameters and anionic compounds: halogenated, sulphur and metalloid species. <i>Talanta</i> , 2004 , 62, 1-15	6.2	31
137	Determination of ultratraces of nitrite by solid-phase preconcentration using a novel flow-through spectrophotometric optrode. <i>Analytica Chimica Acta</i> , 2001 , 437, 55-65	6.6	31
136	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	6.2	30
135	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	3.7	30
134	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, 64-9	4.5	30
133	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	14.6	30
132	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, 374-81	7.8	30
131	Highly selective micro-sequential injection lab-on-valve (muSI-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, 739-48	4.4	30
130	Extraction for analytical scale sample preparation (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016 , 88, 649-687	2.1	29
129	Modulation of mobile phase composition in flow-injection/sequential-injection chromatography exploiting multisyringe flow analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 817-25	4.4	29
128	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	14.6	29
127	CocoSoft: educational software for automation in the analytical chemistry laboratory. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6227-33	4.4	28

126	Miniaturized optical chemosensor for flow-based assays. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 1381-7	4.4	28
125	Potentials of multisyringe flow injection analysis for chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2005 , 541, 55-66	6.6	28
124	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	6.6	28
123	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, 2707-2714	7.8	27
122	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	4.4	26
121	Towards the development of a miniaturized fiberless optofluidic biosensor for glucose. <i>Talanta</i> , 2012 , 96, 113-20	6.2	25
120	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, 2853-9	7.8	25
119	Where are modern flow techniques heading to?. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 6361-6370	4.4	24
118	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, 3279-88	4.4	24
117	Implementation of chemiluminescence detection in the multisyringe flow injection technique. <i>Analytica Chimica Acta</i> , 2002 , 467, 155-166	6.6	24
116	Glossary of terms used in extraction (IUPAC Recommendations 2016). <i>Pure and Applied Chemistry</i> , 2016 , 88, 517-558	2.1	23
115	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	6.6	23
114	A multisyringe flow injection system with immobilized glucose oxidase based on homogeneous chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2004 , 508, 23-30	6.6	23
113	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	6.6	23
112	Reliable determination of ²³⁷ Np in environmental solid samples using ²⁴² Pu as a potential tracer. <i>Talanta</i> , 2011 , 84, 494-500	6.2	22
111	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, 1248-54		22
110	Automated enzymatic assays in a renewable fashion using the multisyringe flow injection scheme with soluble enzymes. <i>Analytical Chemistry</i> , 2004 , 76, 773-80	7.8	22
109	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	6.6	22

108	Trends in analytical separations of magnetic (nano)particles. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 89-97	14.6	22
107	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	4.5	21
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, 2217-27	4.4	21
105	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	3.2	21
104	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	6.6	21
103	Recent Advances in On-line Solvent Extraction Exploiting Flow Injection/Sequential Injection Analysis. <i>Current Analytical Chemistry</i> , 2005 , 1, 329-343	1.7	21
102	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	6.2	21
101	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	6.2	20
100	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	6.6	20
99	An intelligent flow analyser for the in-line concentration, speciation and monitoring of metals at trace levels. <i>Talanta</i> , 2004 , 62, 887-95	6.2	20
98	The emerging role of 3D printing in the fabrication of detection systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 136, 116177	14.6	20
97	On-chip microsolid-phase extraction in a disposable sorbent format using mesofluidic platforms. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 62, 154-161	14.6	19
96	Integrated lab-in-syringe platform incorporating a membraneless gas-liquid separator for automatic cold vapor atomic absorption spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 8968-72	7.8	19
95	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	3.7	19
94	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, 337-49	4.4	19
93	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, 111-9	6.6	19
92	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	6.6	19
91	In-line membrane separation method for sulfide monitoring in wastewaters exploiting multisyringe flow injection analysis. <i>Analytica Chimica Acta</i> , 2004 , 524, 89-96	6.6	19

90	A novel flow-through microdialysis separation unit with integrated differential potentiometric detection for the determination of chloride in soil samples. <i>Analyst, The</i> , 2003 , 128, 1291-7	5	19
89	A novel flow-through disk-based solid-phase extraction diffuse reflectance optrode. Application to preconcentration and determination of trace levels of nitrite. <i>Analyst, The</i> , 2001 , 126, 1740-1746	5	19
88	In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4 EPSPS gene) and nontransgenic precursor/successor soybean seeds. <i>Food Chemistry</i> , 2017 , 225, 125-131	8.5	18
87	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, 1081-8	6.3	18
86	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, 41-8	6.6	18
85	A novel on-line organic mercury digestion method combined with atomic fluorescence spectrometry for automatic mercury speciation. <i>Talanta</i> , 2018 , 189, 220-224	6.2	18
84	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	10.2	17
83	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, 224-31	6.6	17
82	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	4.5	16
81	Rapid chemiluminometric determination of gabapentin in pharmaceutical formulations exploiting pulsed-flow analysis. <i>Luminescence</i> , 2009 , 24, 10-4	2.5	16
80	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	2.2	16
79	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, 6282-90	10.3	15
78	An assessment of the ultrasonic probe-based enhancement of protein cleavage with immobilized trypsin. <i>Proteomics</i> , 2011 , 11, 3866-76	4.8	15
77	Analytical methodologies for reliable sulfide determinations in aqueous matrices exploiting flow-based approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 413-422	14.6	15
76	Assessing population exposure to phthalate plasticizers in thirteen Spanish cities through the analysis of wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123272	12.8	15
75	On-line microcolumn-based dynamic leaching method for investigation of lead bioaccessibility in shooting range soils. <i>Chemosphere</i> , 2020 , 256, 127022	8.4	14
74	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, 7319-26	7.8	14
73	A multisyringe flow-through sequential extraction system for on-line monitoring of orthophosphate in soils and sediments. <i>Talanta</i> , 2007 , 71, 1710-9	6.2	14

72	Reliable Sensing Platform for Plasmonic Enzyme-Linked Immunosorbent Assays Based on Automatic Flow-Based Methodology. <i>Analytical Chemistry</i> , 2019 , 91, 13260-13267	7.8	13
71	On-line speciation analysis of inorganic arsenic in complex environmental aqueous samples by pervaporation sequential injection analysis. <i>Talanta</i> , 2013 , 117, 8-13	6.2	13
70	Universal approach for mesofluidic handling of bead suspensions in lab-on-valve format. <i>Talanta</i> , 2011 , 84, 846-52	6.2	13
69	Interfacing in-line gas-diffusion separation with optrode sorptive preconcentration exploiting multisyringe flow injection analysis. <i>Talanta</i> , 2005 , 68, 343-50	6.2	13
68	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	5.8	13
67	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	6.6	13
66	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	6.2	12
65	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	3.7	12
64	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	14.6	11
63	High-throughput microscale extraction using ionic liquids and derivatives: A review. <i>Journal of Separation Science</i> , 2020 , 43, 1890-1907	3.4	11
62	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, 9479-86	10.3	11
61	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	6.2	11
60	Fractionation and Mobility of Trace Elements in Soils and Sediments 2007 , 467-520		11
59	Combining graphite with hollow-fiber liquid-phase microextraction for improving the extraction efficiency of relatively polar organic compounds. <i>Talanta</i> , 2020 , 215, 120902	6.2	11
58	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	7.8	10
57	The Potentials of the Third Generation of Flow Injection Analysis for Nutrient Monitoring and Fractionation Analysis. <i>Environmental Chemistry</i> , 2006 , 3, 26	3.2	10
56	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, 878-80	4.4	10
55	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	10.2	9

54	Hybrid flow system for automatic dynamic fractionation and speciation of inorganic arsenic in environmental solids. <i>Environmental Science & Technology</i> , 2015 , 49, 2733-40	10.3	9
53	A multisyringe flow injection Winkler-based spectrophotometric analyzer for in-line monitoring of dissolved oxygen in seawater. <i>Talanta</i> , 2010 , 80, 1341-6	6.2	9
52	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	6.6	8
51	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, 11668-75	10.3	8
50	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	8
49	A critical examination of sorbent extraction pre-concentration with spectrophotometric sensing in flowing systems. <i>Talanta</i> , 2004 , 64, 290-301	6.2	8
48	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	6.6	8
47	On-Line Sample Processing Methods in Flow Analysis 291-320		8
46	Automatic flow-through dynamic extraction: A fast tool to evaluate char-based remediation of multi-element contaminated mine soils. <i>Talanta</i> , 2016 , 148, 686-93	6.2	7
45	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	4.4	7
44	Comparison of sample preparation methods for reliable plutonium and neptunium urinalysis using automatic extraction chromatography. <i>Talanta</i> , 2014 , 128, 75-82	6.2	7
43	The embodiment of wastewater data for the estimation of illicit drug consumption in Spain. <i>Science of the Total Environment</i> , 2021 , 772, 144794	10.2	7
42	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	6.2	6
41	Dynamic flow-through approach to evaluate readily bioaccessible antioxidants in solid food samples. <i>Talanta</i> , 2017 , 166, 162-168	6.2	6
40	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	3.7	6
39	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	7.8	6
38	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, 8653-62	4.4	6
37	Modeling Dispersal of UV Filters in Estuaries. <i>Environmental Science & Technology</i> , 2019 , 53, 1353-1363	10.3	6

36	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	6.6	6
35	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	7.8	5
34	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	6.2	5
33	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	14.6	5
32	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	6.2	5
31	Dynamic leaching and fractionation of trace elements from environmental solids exploiting a novel circulating-flow platform. <i>Talanta</i> , 2016 , 148, 617-25	6.2	4
30	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, 120-6	6.2	4
29	Fluorescent Lipid Nanoparticles as Biomembrane Models for Exploring Emerging Contaminant Bioavailability Supported by Density Functional Theory Calculations. <i>Environmental Science & Technology</i> , 2016 , 50, 7135-43	10.3	4
28	Fully automatic flow-based device for monitoring of drug permeation across a cell monolayer. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 971-81	4.4	4
27	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	10.2	4
26	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, The</i> , 2014 , 139, 992-5	5	3
25	Elucidation of associations of ash-forming matter in woody biomass residues using on-line chemical fractionation. <i>Fuel</i> , 2013 , 107, 192-201	7.1	3
24	Automated flow-based anion-exchange method for high-throughput isolation and real-time monitoring of RuBisCO in plant extracts. <i>Talanta</i> , 2011 , 84, 1259-66	6.2	3
23	Cost-Effectiveness Analysis of Chlorine-Based and Alternative Disinfection Systems for Pool Waters. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 04019094	2	3
22	Microdialysis in Environmental Monitoring 2011 , 509-530		2
21	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	9.3	2
20	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	4.1	2
19	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	9.3	2

18	3D printed extraction devices in the analytical laboratory-a case study of Soxhlet extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 4373-4378	4.4	2
17	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	5	2
16	Source identification of amphetamine-like stimulants in Spanish wastewater through enantiomeric profiling. <i>Water Research</i> , 2021 , 206, 117719	12.5	2
15	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 , 116446	14.6	2
14	Atomic Spectroscopic Detection. <i>Comprehensive Analytical Chemistry</i> , 2008 , 54, 375-405	1.9	1
13	Flow Injection Analysis in Industrial Biotechnology ¹		1
12	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	6.2	1
11	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	10.2	1
10	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	6.6	1
9	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> , 2021 , 1	4.4	1
8	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	10.2	1
7	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	4.1	1
6	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	10.2	1
5	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	2.4	0
4	3D printed spinning cup-shaped device for immunoaffinity solid-phase extraction of diclofenac in wastewaters.. <i>Mikrochimica Acta</i> , 2022 , 189, 173	5.8	0
3	Real-time monitoring of Metridia 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	6.2	0
2	Flow Injection Analysis: Detection Techniques 2018 , 154-154		
1	Flow Injection Analysis Environmental and Agricultural Applications 2018 , 164-164		

