Miguel ValcÃ¡rcel Cases

List of Publications by Year
in descending order

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538 papers	18,165 citations	16451 64 h-index	43889 91 g-index
542 all docs	542 docs citations	542 times ranked	12856 citing authors

#	Article	IF	Citations
1	Carbon nanostructures as sorbent materials in analytical processes. TrAC - Trends in Analytical Chemistry, 2008, 27, 34-43.	11.4	287
2	Quantum dots luminescence enhancement due to illumination with UV/Vis light. Chemical Communications, 2009, , 5214.	4.1	282
3	Role of Carbon Nanotubes in Analytical Science. Analytical Chemistry, 2007, 79, 4788-4797.	6.5	268
4	Potential of nanoparticles in sample preparation. Journal of Chromatography A, 2011, 1218, 620-637.	3.7	199
5	Monitoring nanoparticles in the environment. Analytical and Bioanalytical Chemistry, 2009, 393, 17-21.	3.7	175
6	Present and future applications of carbon nanotubes to analytical science. Analytical and Bioanalytical Chemistry, 2005, 382, 1783-1790.	3.7	169
7	The roles of ionic liquids in sorptive microextraction techniques. TrAC - Trends in Analytical Chemistry, 2010, 29, 602-616.	11.4	159
8	Two-dimensional correlation spectroscopy and multivariate curve resolution for the study of lipid oxidation in edible oils monitored by FTIR and FT-Raman spectroscopy. Analytica Chimica Acta, 2007, 593, 54-67.	5.4	152
9	One-step in-syringe ionic liquid-based dispersive liquidâ€“liquid microextraction. Journal of Chromatography A, 2009, 1216, 6459-6465.	3.7	147
10	Direct Coupling of Ionic Liquid Based Single-Drop Microextraction and GC/MS. Analytical Chemistry, 2008, 80, 793-800.	6.5	144
11	The Toxicity of Silver Nanoparticles Depends on Their Uptake by Cells and Thus on Their Surface Chemistry. Particle and Particle Systems Characterization, 2013, 30, 1079-1085.	2.3	131
12	Analytical Supercritical Fluid Extraction. , 1994, , .		131
13	Association of Methanol and Water in Ionic Liquids Elucidated by Infrared Spectroscopy Using Two-Dimensional Correlation and Multivariate Curve Resolution. Journal of Physical Chemistry B, 2006, 110, 10896-10902.	2.6	130
14	Ionic liquid-based single-drop microextraction/gas chromatographic/mass spectrometric determination of benzene, toluene, ethylbenzene and xylene isomers in waters. Journal of Chromatography A, 2008, 1201, 106-111.	3.7	125
15	Determination of volatile compounds by GCâ€“IMS to assign the quality of virgin olive oil. Food Chemistry, 2015, 187, 572-579.	8.2	124
16	Determination of parabens in cosmetic products using multi-walled carbon nanotubes as solid phase extraction sorbent and corona-charged aerosol detection system. Journal of Chromatography A, 2010, 1217, 1-6.	3.7	119
17	Determination of anti-carcinogenic polyphenols present in green tea using capillary electrophoresis coupled to a flow injection system. Journal of Chromatography A, 1998, 827, 113-120.	3.7	116
18	Ion-mobility spectrometry for environmental analysis. TrAC - Trends in Analytical Chemistry, 2011, 30, 677-690.	11.4	114

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19	Use of switchable solvents in the microextraction context. Talanta, 2015, 131, 645-649.	5.5	114
20	Selective Quantification of Carnitine Enantiomers Using Chiral Cysteine-Capped CdSe(ZnS) Quantum Dots. Analytical Chemistry, 2009, 81, 4730-4733.	6.5	107
21	Vanguard-rearguard analytical strategies. TrAC - Trends in Analytical Chemistry, 2005, 24, 67-74.	11.4	98
22	In Situ Synthesis of Magnetic Multiwalled Carbon Nanotube Composites for the Clean-up of (Fluoro)Quinolones from Human Plasma Prior to Ultrahigh Pressure Liquid Chromatography Analysis. Analytical Chemistry, 2010, 82, 2743-2752.	6.5	98
23	Fullerenes as Sorbent Materials for Metal Preconcentration. Analytical Chemistry, 1994, 66, 4074-4078.	6.5	96
24	Functionalization and dispersion of carbon nanotubes in ionic liquids. TrAC - Trends in Analytical Chemistry, 2013, 47, 99-110.	11.4	96
25	Effervescence assisted dispersive liquidâ€“liquid microextraction with extractant removal by magnetic nanoparticles. Analytica Chimica Acta, 2014, 807, 61-66.	5.4	95
26	Fluorescent carbon dotâ€“molecular salt hydrogels. Chemical Science, 2015, 6, 6139-6146.	7.4	95
27	Sample screening systems in analytical chemistry. TrAC - Trends in Analytical Chemistry, 1999, 18, 685-694.	11.4	94
28	Dispersive micro solid-phase extraction of triazines from waters using oxidized single-walled carbon nanohorns as sorbent. Journal of Chromatography A, 2012, 1245, 17-23.	3.7	93
29	Simultaneous determinations in flow injection analysis. A review. Analyst, The, 1984, 109, 413.	3.5	92
30	Evaluation of the performance of singleâ€walled carbon nanohorns in capillary electrophoresis. Electrophoresis, 2010, 31, 1681-1688.	2.4	92
31	Electrophoretic methods for the analysis of nanoparticles. TrAC - Trends in Analytical Chemistry, 2011, 30, 58-71.	11.4	92
32	Direct determination of biogenic amines in wine by integrating continuous flow clean-up and capillary electrophoresis with indirect UV detection. Journal of Chromatography A, 1998, 803, 249-260.	3.7	91
33	Dispersive micro-solid phase extraction with ionic liquid-modified silica for the determination of organophosphate pesticides in water by ultra performance liquid chromatography. Microchemical Journal, 2013, 106, 311-317.	4.5	91
34	Liquid-liquid extraction in continuous flow systems without phase separation. Analytical Chemistry, 1988, 60, 2354-2357.	6.5	87
35	Direct olive oil authentication: Detection of adulteration of olive oil with hazelnut oil by direct coupling of headspace and mass spectrometry, and multivariate regression techniques. Journal of Chromatography A, 2005, 1074, 215-221.	3.7	87
36	Fluorescent nanocellulosic hydrogels based on graphene quantum dots for sensing laccase. Analytica Chimica Acta, 2017, 974, 93-99.	5.4	83

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37	Determination of trans-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation. Analytica Chimica Acta, 1998, 359, 27-38.	5.4	82
38	Determination of non-steroidal anti-inflammatory drugs in urine by combining an immobilized carboxylated carbon nanotubes minicolumn for solid-phase extraction with capillary electrophoresis-mass spectrometry. Journal of Chromatography A, 2007, 1159, 203-207.	3.7	82
39	One step carbon nanotubes-based solid-phase extraction for the gas chromatographicâ€“mass spectrometric multiclass pesticide control in virgin olive oils. Journal of Chromatography A, 2009, 1216, 7346-7350.	3.7	82
40	Study of the Degradation of the Herbicides 2,4-D and MCPA at Different Depths in Contaminated Agricultural Soil. Environmental Science & Technology, 2001, 35, 4265-4270.	10.0	81
41	Strong luminescence of Carbon Dots induced by acetone passivation: Efficient sensor for a rapid analysis of two different pollutants. Analytica Chimica Acta, 2013, 804, 246-251.	5.4	81
42	Stir fabric phase sorptive extraction for the determination of triazine herbicides in environmental waters by liquid chromatography. Journal of Chromatography A, 2015, 1376, 35-45.	3.7	81
43	Integrated reaction/spectrophotometric detection in unsegmented flow systems. Analytica Chimica Acta, 1988, 214, 217-227.	5.4	80
44	The Potential of Carbon Nanotube Membranes for Analytical Separations. Analytical Chemistry, 2010, 82, 5399-5407.	6.5	80
45	Ionic liquid coated magnetic nanoparticles for the gas chromatography/mass spectrometric determination of polycyclic aromatic hydrocarbons in waters. Journal of Chromatography A, 2013, 1300, 134-140.	3.7	80
46	Photoluminescent sensing hydrogel platform based on the combination of nanocellulose and S,N-codoped graphene quantum dots. Sensors and Actuators B: Chemical, 2017, 245, 946-953.	7.8	80
47	Multidetection in unsegmented flow systems with a single detector. Analytical Chemistry, 1985, 57, 1803-1809.	6.5	79
48	Use of switchable hydrophilicity solvents for the homogeneous liquidâ€“liquid microextraction of triazine herbicides from environmental water samples. Journal of Separation Science, 2015, 38, 990-995.	2.5	79
49	Reusable sensor based on functionalized carbon dots for the detection of silver nanoparticles in cosmetics via inner filter effect. Analytica Chimica Acta, 2015, 872, 70-76.	5.4	79
50	Evaluation of single-walled carbon nanohorns as sorbent in dispersive micro solid-phase extraction. Analytica Chimica Acta, 2012, 714, 76-81.	5.4	77
51	Determination of phenols in waters by stir membrane liquidâ€“liquidâ€“liquid microextraction coupled to liquid chromatography with ultraviolet detection. Journal of Chromatography A, 2011, 1218, 2176-2181.	3.7	76
52	Surfactant-coated single-walled carbon nanotubes as a novel pseudostationary phase in capillary EKC. Electrophoresis, 2007, 28, 1714-1722.	2.4	75
53	Sample treatments based on dispersive (micro)extraction. Analytical Methods, 2011, 3, 1719.	2.7	75
54	Dispersive micro-solid phase extraction of bisphenol A from milk using magnetic nylon 6 composite and its final determination by HPLC-UV. Microchemical Journal, 2016, 124, 751-756.	4.5	75

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55	Flow injectionâ€“capillary electrophoresis coupling to automate on-line sample treatment for the determination of inorganic ions in waters. Journal of Chromatography A, 1997, 791, 279-287.	3.7	73
56	Speciation of Organometallic Compounds in Environmetal Samples by Gas Chromatography after Flow Preconcentration on Fullerenes and Nanotubes. Analytical Chemistry, 2005, 77, 5389-5395.	6.5	71
57	Determination of trihalomethanes in waters by ionic liquid-based single drop microextraction/gas chromatographic/mass spectrometry. Journal of Chromatography A, 2008, 1209, 76-82.	3.7	71
58	Ionic liquid-based dynamic liquid-phase microextraction: Application to the determination of anti-inflammatory drugs in urine samples. Journal of Chromatography A, 2008, 1202, 1-7.	3.7	71
59	Direct classification of olive oils by using two types of ion mobility spectrometers. Analytica Chimica Acta, 2011, 696, 108-115.	5.4	70
60	Combined use of carbon nanotubes and ionic liquid to improve the determination of antidepressants in urine samples by liquid chromatography. Analytical and Bioanalytical Chemistry, 2008, 391, 1139-1145.	3.7	69
61	Screening and analytical confirmation of sulfonamide residues in milk by capillary electrophoresis-mass spectrometry. Electrophoresis, 2005, 26, 1567-1575.	2.4	68
62	Effervescence-assisted dispersive micro-solid phase extraction. Journal of Chromatography A, 2011, 1218, 9128-9134.	3.7	68
63	Graphene Quantum Dots Sensor for the Determination of Graphene Oxide in Environmental Water Samples. Analytical Chemistry, 2014, 86, 12279-12284.	6.5	68
64	Ionic liquid-based single drop microextraction and room-temperature gas chromatography for on-site ion mobility spectrometric analysis. Journal of Chromatography A, 2009, 1216, 5580-5587.	3.7	67
65	Quality assurance of qualitative analysis in the framework of the European project ?MEQUALAN'. Accreditation and Quality Assurance, 2003, 8, 68-77.	0.8	66
66	Stir Membrane Extraction: A Useful Approach for Liquid Sample Pretreatment. Analytical Chemistry, 2009, 81, 8957-8961.	6.5	66
67	Effervescence-assisted carbon nanotubes dispersion for the micro-solid-phase extraction of triazine herbicides from environmental waters. Analytical and Bioanalytical Chemistry, 2013, 405, 3269-3277.	3.7	66
68	Magnetic nanoparticles-nylon 6 composite for the dispersive micro solid phase extraction of selected polycyclic aromatic hydrocarbons from water samples. Journal of Chromatography A, 2014, 1345, 43-49.	3.7	66
69	Multi-capillary column-ion mobility spectrometry: a potential screening system to differentiate virgin olive oils. Analytical and Bioanalytical Chemistry, 2012, 402, 489-498.	3.7	65
70	Multiplexed Sensing and Imaging with Colloidal Nano- and Microparticles. Annual Review of Analytical Chemistry, 2013, 6, 53-81.	5.4	65
71	Direct automatic determination of biogenic amines in wine by flow injection-capillary electrophoresis-mass spectrometry. Electrophoresis, 2004, 25, 3427-3433.	2.4	64
72	Evaluation of carbon nanostructures as chiral selectors for direct enantiomeric separation of ephedrines by EKC. Electrophoresis, 2007, 28, 2573-2579.	2.4	63

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73	On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C 60) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry 1Presented at the Flow Analysis VII Conference held in Piracicaba, Brazil, 23â€“26 August 1997. 1. Analytica Chimica Acta, 1998, 368, 255-263.	5.4	62
74	Ionic liquids and CE combination. Electrophoresis, 2008, 29, 94-107.	2.4	62
75	Determination of phenothiazine derivatives in human urine by using ionic liquid-based dynamic liquid-phase microextraction coupled with liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 37-42.	2.3	62
76	Pre-concentration and determination of trace amounts of lead in water by continuous precipitation in an unsegmented-flow atomic absorption spectrometric system. Analyst, The, 1987, 112, 1233-1236.	3.5	61
77	Determination of nonsteroidal anti-inflammatory drugs in biological fluids by automatic on-line integration of solid-phase extraction and capillary electrophoresis. Electrophoresis, 2001, 22, 484-490.	2.4	61
78	Recent developments in capillary EKC based on carbon nanoparticles. Electrophoresis, 2009, 30, 169-175.	2.4	61
79	Raman spectroscopic characterization of single walled carbon nanotubes: influence of the sample aggregation state. Analyst, The, 2014, 139, 290-298.	3.5	61
80	Comparison of flow injection analysis configurations for differential kinetic determination of cobalt and nickel. Analytical Chemistry, 1984, 56, 1146-1151.	6.5	60
81	Indirect atomic absorption determination of anionic surfactants in wastewaters by flow injection continuous liquid-liquid extraction. Analytical Chemistry, 1986, 58, 2265-2269.	6.5	60
82	Individual and simultaneous determination of ethanol and acetaldehyde in wines by flow injection analysis and immobilized enzymes. Analytical Chemistry, 1987, 59, 1859-1863.	6.5	60
83	Supported liquid membranes for the determination of vanillin in food samples with amperometric detection. Analytica Chimica Acta, 2000, 410, 127-134.	5.4	60
84	Colistin-functionalised CdSe/ZnS quantum dots as fluorescent probe for the rapid detection of Escherichia coli. Biosensors and Bioelectronics, 2011, 26, 4368-4374.	10.1	60
85	Analytical potential of hybrid nanoparticles. Analytical and Bioanalytical Chemistry, 2011, 399, 43-54.	3.7	60
86	Magnetic nanoparticles coated with ionic liquid for the extraction of endocrine disrupting compounds from waters. Microchemical Journal, 2016, 128, 347-353.	4.5	60
87	Preconcentration of Copper Traces on C60-C70 Fullerenes by Formation of Ion Pairs and Chelates. Analytical Chemistry, 1995, 67, 2524-2529.	6.5	59
88	Evaluation of carbon nanocones/disks as sorbent material for solid-phase extraction. Journal of Chromatography A, 2009, 1216, 5626-5633.	3.7	59
89	Graphene quantum dots as sensor for phenols in olive oil. Sensors and Actuators B: Chemical, 2014, 197, 350-357.	7.8	59
90	Nanocellulose as analyte and analytical tool: Opportunities and challenges. TrAC - Trends in Analytical Chemistry, 2017, 87, 1-18.	11.4	59

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91	Continuous separation techniques in flow injection analysis. Journal of Chromatography A, 1987, 393, 3-23.	3.7	58
92	Continuous flow spectrophotometric determination of paracetamol in pharmaceuticals following continuous microwave assisted alkaline hydrolysis. Talanta, 2000, 53, 417-423.	5.5	57
93	Determination of Natural and Synthetic Colorants in Prescreened Dairy Samples Using Liquid Chromatography-Diode Array Detection. Analytical Chemistry, 2003, 75, 685-693.	6.5	57
94	Analytical potential of flow-reversal injection analysis. Analytical Chemistry, 1988, 60, 1540-1545.	6.5	56
95	Separation of carbon nanotubes in aqueous medium by capillary electrophoresis. Journal of Chromatography A, 2006, 1128, 282-289.	3.7	56
96	Analytical Nanoscience and Nanotechnology: Where we are and where we are heading. Talanta, 2018, 177, 104-121.	5.5	56
97	The hierarchy and relationships of analytical properties. Analytical Chemistry, 1993, 65, 781A-787A.	6.5	55
98	Coupling continuous separation techniques to capillary electrophoresis. Journal of Chromatography A, 2001, 924, 3-30.	3.7	55
99	Determination of 2,4,6-tricholoroanisole in water and wine samples by ionic liquid-based single-drop microextraction and ion mobility spectrometry. Analytica Chimica Acta, 2011, 702, 199-204.	5.4	55
100	Functionalized carbon dots as sensors for gold nanoparticles in spiked samples: Formation of nanohybrids. Analytica Chimica Acta, 2014, 820, 133-138.	5.4	55
101	Analytical potential of continuous precipitation in flow injection-atomic absorption configurations. Analytical Chemistry, 1987, 59, 69-74.	6.5	54
102	Evaporative light scattering detection: trends in its analytical uses. Analytical and Bioanalytical Chemistry, 2007, 388, 1663-1672.	3.7	54
103	Photochemicalâ€“spectrofluorimetric determination of phenothiazine compounds by unsegmented-flow methods. Analyst, The, 1991, 116, 171-176.	3.5	53
104	Liquid-phase microextraction in bioanalytical sample preparation. Bioanalysis, 2009, 1, 135-149.	1.5	53
105	Ionic liquid based in situ solvent formation microextraction coupled to thermal desorption for chlorophenols determination in waters by gas chromatography/mass spectrometry. Journal of Chromatography A, 2012, 1229, 48-54.	3.7	53
106	Integration of reaction (retention) and spectroscopic detection in continuous-flow systems. Invited lecture. Analyst, The, 1990, 115, 699-703.	3.5	52
107	Atomic absorption determination of copper in silicate rocks by continuous precipitation preconcentration. Analytical Chemistry, 1989, 61, 1427-1430.	6.5	51
108	On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions. Analytica Chimica Acta, 1999, 390, 39-44.	5.4	51

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109	Sulfonated nanocellulose for the efficient dispersive micro solid-phase extraction and determination of silver nanoparticles in food products. Journal of Chromatography A, 2016, 1428, 352-358.	3.7	51
110	Analytical nanoscience and nanotechnology today and tomorrow. Analytical and Bioanalytical Chemistry, 2008, 391, 1881-1887.	3.7	50
111	Ion mobility spectrometry of volatile compounds from Iberian pig fat for fast feeding regime authentication. Talanta, 2008, 76, 591-596.	5.5	50
112	Liquid-phase microextraction techniques for simplifying sample treatment in capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2009, 28, 842-853.	11.4	50
113	Direct coupling of a gasâ€“liquid separator to an ion mobility spectrometer for the classification of different white wines using chemometrics tools. Talanta, 2011, 84, 471-479.	5.5	50
114	Î²-Cyclodextrin decorated nanocellulose: a smart approach towards the selective fluorimetric determination of danofloxacin in milk samples. Analyst, The, 2015, 140, 3431-3438.	3.5	50
115	New approach to the simultaneous determination of pollutants in waste waters by flow injection analysis. Part A. Anionic pollutants. Analyst, The, 1984, 109, 1487-1492.	3.5	49
116	Ternary composites of nanocellulose, carbonanotubes and ionic liquids as new extractants for direct immersion single drop microextraction. Talanta, 2014, 125, 72-77.	5.5	49
117	Hybridization of commercial polymeric microparticles and magnetic nanoparticles for the dispersive micro-solid phase extraction of nitroaromatic hydrocarbons from water. Journal of Chromatography A, 2013, 1271, 50-55.	3.7	48
118	The third way in analytical nanoscience and nanotechnology: Involvement of nanotools and nanoanalytes in the same analytical process. TrAC - Trends in Analytical Chemistry, 2016, 75, 1-9.	11.4	48
119	Doubly stopped flow: a new alternative to simultaneous kinetic multideterminations in unsegmented flow systems. Analytical Chemistry, 1987, 59, 950-954.	6.5	47
120	Automatic gas chromatographic determination of N-methylcarbamates in milk with electron capture detection. Analytical Chemistry, 1993, 65, 1773-1778.	6.5	46
121	Speciation of Inorganic Lead and Ionic Alkyllead Compounds by GC/MS in Prescreened Rainwaters. Analytical Chemistry, 2000, 72, 1510-1517.	6.5	46
122	Analysis of phenylurea herbicides from plants by GC/MS. Talanta, 2002, 56, 727-734.	5.5	46
123	Determination of total safranal by in situ acid hydrolysis in supercritical fluid media: Application to the quality control of commercial saffron. Analytica Chimica Acta, 2006, 578, 117-121.	5.4	46
124	Inâ€line liquidâ€phase microextraction for selective enrichment and direct electrophoretic analysis of acidic drugs. Electrophoresis, 2007, 28, 3284-3289.	2.4	46
125	Liquidâ€“liquid extraction/headspace/gas chromatographic/mass spectrometric determination of benzene, toluene, ethylbenzene, (o-, m- and p-)xylene and styrene in olive oil using surfactant-coated carbon nanotubes as extractant. Journal of Chromatography A, 2007, 1171, 1-7.	3.7	46
126	Flow-through (bio)chemical sensorsâ€”Plenary lecture. Analyst, The, 1993, 118, 593-600.	3.5	45

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127	Analytical features in qualitative analysis. TrAC - Trends in Analytical Chemistry, 2005, 24, 477-487.	11.4	45
128	Surfactant-coated carbon nanotubes as pseudophases in liquidâ€“liquid extraction. Analyst, The, 2007, 132, 551-559.	3.5	45
129	Stir membrane liquidâ€“liquid microextraction. Journal of Chromatography A, 2011, 1218, 869-874.	3.7	45
130	Photoluminescent carbon dot sensor for carboxylated multiwalled carbon nanotube detection in river water. Sensors and Actuators B: Chemical, 2015, 207, 596-601.	7.8	45
131	New configuration for construction of pH gradients in flow injection analysis. Analytical Chemistry, 1986, 58, 663-664.	6.5	44
132	Electrochemical determination of sulfur dioxide in air samples in closed-loop flow injection system. Analytical Chemistry, 1987, 59, 666-670.	6.5	44
133	Direct introduction of solid samples into continuous-flow systems by use of ultrasonic irradiation. Analytica Chimica Acta, 1991, 242, 283-289.	5.4	44
134	Determination of nitrosamines in preserved sausages by solid-phase extractionâ€“micellar electrokinetic chromatography. Journal of Chromatography A, 2003, 985, 503-512.	3.7	44
135	Carboxylic multiâ€walled carbon nanotubes as immobilized stationary phase in capillary electrochromatography. Electrophoresis, 2008, 29, 3850-3857.	2.4	44
136	Fullerene: a Sensitive and Selective Sorbent for the Continuous Preconcentration and Atomic Absorption Determination of Cadmium. Journal of Analytical Atomic Spectrometry, 1997, 12, 453.	3.0	43
137	Semiautomatic multiresidue gas chromatographic method for the screening of vegetables for 25 organochlorine and pyrethroid pesticides. Analytica Chimica Acta, 2001, 436, 153-162.	5.4	43
138	Classification of extra virgin olive oils according to the protected designation of origin, olive variety and geographical origin. Talanta, 2008, 75, 937-943.	5.5	43
139	Sorptive microextraction for liquid-chromatographic determination of drugs in urine. TrAC - Trends in Analytical Chemistry, 2009, 28, 1164-1173.	11.4	43
140	Determination of Pyrimidine and Purine Bases by Reversed-Phase Capillary Liquid Chromatography with At-Line Surface-Enhanced Raman Spectroscopic Detection Employing a Novel SERS Substrate Based on ZnS/CdSe Silverâ€“Quantum Dots. Analytical Chemistry, 2011, 83, 9391-9398.	6.5	43
141	Determination of parabens in waters by magnetically confined hydrophobic nanoparticle microextraction coupled to gas chromatography/mass spectrometry. Microchemical Journal, 2013, 110, 643-648.	4.5	43
142	Qualitative Analysis Revisited. Critical Reviews in Analytical Chemistry, 2000, 30, 345-361.	3.5	42
143	A Method for Screening Total Mercury in Water Using a Flow Injection System with Piezoelectric Detection. Analytical Chemistry, 2002, 74, 921-925.	6.5	42
144	Rapid analysis of gold nanoparticles in liver and river water samples. Analyst, The, 2012, 137, 3528.	3.5	42

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145	Determination of TNT explosive based on its selectively interaction with creatinine-capped CdSe/ZnS quantum dots. Analytica Chimica Acta, 2013, 792, 93-100.	5.4	42
146	Multilayer grapheneâ€“gold nanoparticle hybrid substrate for the SERS determination of metronidazole. Microchemical Journal, 2015, 121, 6-13.	4.5	42
147	On-line coupling of a gas chromatograph to a continuous liquid-liquid extractor. Analytical Chemistry, 1990, 62, 1587-1591.	6.5	41
148	On-line coupling of solid-phase microextraction to commercial CE-MS equipment. Electrophoresis, 2007, 28, 1312-1318.	2.4	41
149	Analysis of binary and ternary mixtures of titanium, zirconium, and hafnium by derivative synchronous fluorescence spectrometry. Analytical Chemistry, 1985, 57, 1101-1106.	6.5	39
150	Flow injection analysis of binary and ternary mixtures of arsenite, arsenate, and phosphate. Analytical Chemistry, 1986, 58, 120-124.	6.5	39
151	Fully Automatic Sample Treatment by Integration of Microextraction by Packed Sorbents into Commercial Capillary Electrophoresisâ”Mass Spectrometry Equipment: Application to the Determination of Fluoroquinolones in Urine. Analytical Chemistry, 2009, 81, 3188-3193.	6.5	39
152	Titanium-dioxide nanotubes as sorbents in (micro)extraction techniques. TrAC - Trends in Analytical Chemistry, 2014, 62, 37-45.	11.4	39
153	Stir-membrane solidâ€“liquidâ€“liquid microextraction for the determination of parabens in human breast milk samples by ultra high performance liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2014, 1354, 26-33.	3.7	39
154	Ion Mobility Spectrometry versus Classical Physico-chemical Analysis for Assessing the Shelf Life of Extra Virgin Olive Oil According to Container Type and Storage Conditions. Journal of Agricultural and Food Chemistry, 2015, 63, 2179-2188.	5.2	39
155	One-Step Synthesis and Characterization of N-Doped Carbon Nanodots for Sensing in Organic Media. Analytical Chemistry, 2016, 88, 3178-3185.	6.5	39
156	Continuous-flow method for the determination of phenols at low levels in water and soil leachates using solid-phase extraction for simultaneous preconcentration and separation. Analyst, The, 1996, 121, 1-6.	3.5	38
157	Comparison of Three Coupled Gas Chromatographic Detectors (MS, MIP-AES, ICP-TOFMS) for Organolead Speciation Analysis. Analytical Chemistry, 2001, 73, 3927-3934.	6.5	38
158	Automatic selective determination of caffeine in coffee and tea samples by using a supported liquid membrane-modified piezoelectric flow sensor with molecularly imprinted polymer. Analytica Chimica Acta, 2005, 539, 117-124.	5.4	38
159	New supported liquid membrane-capillary electrophoresis in-line arrangement for direct selective analysis of complex samples. Electrophoresis, 2006, 27, 3075-3085.	2.4	38
160	Combined use of supported liquid membrane and solidâ€phase extraction to enhance selectivity and sensitivity in capillary electrophoresis for the determination of ochratoxin A in wine. Electrophoresis, 2008, 29, 1573-1581.	2.4	38
161	Sample treatments improved by electric fields. TrAC - Trends in Analytical Chemistry, 2010, 29, 158-165.	11.4	38
162	Capillary Electrophoresis Method for the Characterization and Separation of CdSe Quantum Dots. Analytical Chemistry, 2011, 83, 2807-2813.	6.5	38

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163	Determination of vitamin C by flow injection analysis. Analyst, The, 1986, 111, 163-166.	3.5	37
164	Speciation of Lead in Environmental Waters by Preconcentration on a New Fullerene Derivative. Analytical Chemistry, 2002, 74, 1519-1524.	6.5	37
165	Determination of myo-inositol phosphates in food samples by flow injection-capillary zone electrophoresis. Electrophoresis, 2003, 24, 2092-2098.	2.4	37
166	Calix[8]arene Coated CdSe/ZnS Quantum Dots as C₆₀-Nanosensor. Analytical Chemistry, 2011, 83, 8093-8100.	6.5	37
167	In-syringe dispersive micro-solid phase extraction using carbon fibres for the determination of chlorophenols in human urine by gas chromatography/mass spectrometry. Journal of Chromatography A, 2016, 1464, 42-49.	3.7	37
168	Principles of Analytical Chemistry. , 2000, , .		36
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