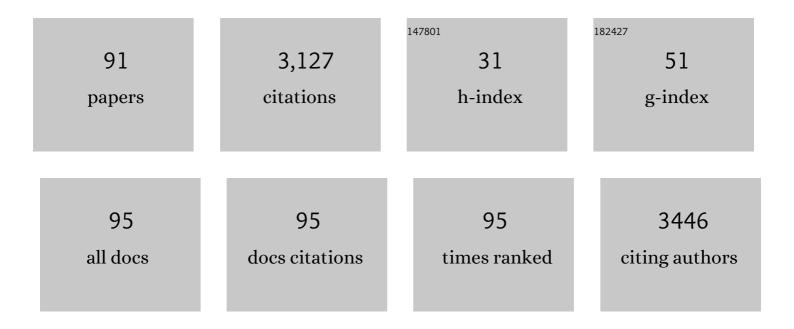
MarÃ-a Castro Puyana

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Compressed fluids for the extraction of bioactive compounds. TrAC - Trends in Analytical Chemistry, 2013, 43, 67-83.	11.4	267
2	Chiral capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2020, 124, 115807.	11.4	147
3	Extraction and Characterization of Bioactive Compounds with Health Benefits from Marine Resources: Macro and Micro Algae, Cyanobacteria, and Invertebrates. , 2012, , 55-98.		132
4	Metabolomics approaches based on mass spectrometry for food safety, quality and traceability. TrAC - Trends in Analytical Chemistry, 2013, 52, 74-87.	11.4	123
5	Global Foodomics strategy to investigate the health benefits of dietary constituents. Journal of Chromatography A, 2012, 1248, 139-153.	3.7	107
6	Water as green extraction solvent: Principles and reasons for its use. Current Opinion in Green and Sustainable Chemistry, 2017, 5, 31-36.	5.9	103
7	Metabolomics, peptidomics and proteomics applications of capillary electrophoresis-mass spectrometry in Foodomics: A review. Analytica Chimica Acta, 2013, 802, 1-13.	5.4	97
8	Application of mass spectrometry-based metabolomics approaches for food safety, quality and traceability. TrAC - Trends in Analytical Chemistry, 2017, 93, 102-118.	11.4	85
9	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. Electrophoresis, 2012, 33, 147-167.	2.4	80
10	Optimization of clean extraction methods to isolate carotenoids from the microalga Neochloris oleoabundans and subsequent chemical characterization using liquid chromatography tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 4607-4616.	3.7	80
11	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. Electrophoresis, 2014, 35, 147-169.	2.4	69
12	About the role of enantioselective selector–selectand interactions and the mobilities of diastereomeric associates in enantiomer separations using CE. Electrophoresis, 2009, 30, 2803-2811.	2.4	66
13	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. Electrophoresis, 2018, 39, 136-159.	2.4	65
14	Pressurized liquid extraction of Neochloris oleoabundans for the recovery of bioactive carotenoids with anti-proliferative activity against human colon cancer cells. Food Research International, 2017, 99, 1048-1055.	6.2	61
15	Enantioseparation by Capillary Electrophoresis Using Ionic Liquids as Chiral Selectors. Critical Reviews in Analytical Chemistry, 2018, 48, 429-446.	3.5	59
16	Recovering Bioactive Compounds from Olive Oil Filter Cake by Advanced Extraction Techniques. International Journal of Molecular Sciences, 2014, 15, 16270-16283.	4.1	52
17	Life cycle assessment of green pilot-scale extraction processes to obtain potent antioxidants from rosemary leaves. Journal of Supercritical Fluids, 2012, 72, 205-212.	3.2	51
18	Determination of l- and d-carnitine in dietary food supplements using capillary electrophoresis–tandem mass spectrometry. Food Chemistry, 2010, 120, 921-928.	8.2	48

MarÃa Castro Puyana

#	Article	IF	CITATIONS
19	Recent approaches in sensitive enantioseparations by CE. Electrophoresis, 2012, 33, 228-242.	2.4	47
20	Reprint of: Application of mass spectrometry-based metabolomics approaches for food safety, quality and traceability. TrAC - Trends in Analytical Chemistry, 2017, 96, 62-78.	11.4	46
21	Amino acid chiral ionic liquids combined with hydroxypropyl-β-cyclodextrin for drug enantioseparation by capillary electrophoresis. Journal of Chromatography A, 2019, 1607, 460375.	3.7	46
22	Chiral Discrimination of DL-Amino Acids by Trapped Ion Mobility Spectrometry after Derivatization with (+)-1-(9-Fluorenyl)ethyl Chloroformate. Analytical Chemistry, 2019, 91, 3277-3285.	6.5	46
23	Supercritical antisolvent fractionation of rosemary extracts obtained by pressurized liquid extraction to enhance their antiproliferative activity. Journal of Supercritical Fluids, 2016, 107, 581-589.	3.2	45
24	Development of a CEâ€MS ² method for the enantiomeric separation of <scp>L</scp> / <scp>D</scp> â€carnitine: Application to the analysis of infant formulas. Electrophoresis, 2009, 30, 337-348.	2.4	44
25	Potential of vancomycin for the enantiomeric resolution of FMOCâ€amino acids by capillary electrophoresisâ€ionâ€trapâ€mass spectrometry. Electrophoresis, 2014, 35, 1244-1250.	2.4	41
26	Effect of the combined use of Î ³ -cyclodextrin and a chiral ionic liquid on the enantiomeric separation of homocysteine by capillary electrophoresis. Journal of Chromatography A, 2018, 1568, 222-228.	3.7	39
27	Enantioselective separation of azole compounds by EKC. Reversal of migration order of enantiomers with CD concentration. Electrophoresis, 2007, 28, 2667-2674.	2.4	38
28	Recent advances in the analysis of antibiotics by CE and CEC. Electrophoresis, 2008, 29, 274-293.	2.4	37
29	Capillary electrophoresis determination of non-protein amino acids as quality markers in foods. Journal of Chromatography A, 2016, 1428, 97-114.	3.7	36
30	Detection of saffron adulteration with gardenia extracts through the determination of geniposide by liquid chromatography–mass spectrometry. Journal of Food Composition and Analysis, 2017, 55, 30-37.	3.9	35
31	Formation and relevance of 5-hydroxymethylfurfural in bioactive subcritical water extracts from olive leaves. Food Research International, 2012, 47, 31-37.	6.2	34
32	Recent advances in the analysis of antibiotics by CE and CEC. Electrophoresis, 2010, 31, 229-250.	2.4	33
33	Revalorization of Neochloris oleoabundans biomass as source of biodiesel by concurrent production of lipids and carotenoids. Algal Research, 2014, 5, 16-22.	4.6	32
34	Enantiomeric separation of ivabradine by cyclodextrin-electrokinetic chromatography. Effect of amino acid chiral ionic liquids. Journal of Chromatography A, 2019, 1608, 460407.	3.7	31
35	Enantiomeric separation of ketoconazole and terconazole antifungals by electrokinetic chromatography: Rapid quantitative analysis of ketoconazole in pharmaceutical formulations. Electrophoresis, 2005, 26, 3960-3968.	2.4	30
36	Fast Determination of Sudan Dyes in Chilli Tomato Sauces Using Partial Filling Micellar Electrokinetic Chromatography. Journal of Agricultural and Food Chemistry, 2011, 59, 11903-11909.	5.2	29

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37	Use of choline chloride-D-sorbitol deep eutectic solvent as additive in cyclodextrin-electrokinetic chromatography for the enantiomeric separation of lacosamide. Microchemical Journal, 2021, 160, 105669.	4.5	28
38	Identification and quantitation of cis-ketoconazole impurity by capillary zone electrophoresis–mass spectrometry. Journal of Chromatography A, 2006, 1114, 170-177.	3.7	25
39	Enantiomeric separation of bupropion enantiomers by electrokinetic chromatography: Quantitative analysis in pharmaceutical formulationsâ ⁻ †. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 875, 260-265.	2.3	25
40	A novel method for the quality control of saffron through the simultaneous analysis of authenticity and adulteration markers by liquid chromatography-(quadrupole-time of flight)-mass spectrometry. Food Chemistry, 2017, 228, 403-410.	8.2	25
41	Analysis of antibiotics by CE and CEC and their use as chiral selectors: An update. Electrophoresis, 2018, 39, 235-259.	2.4	25
42	A non-targeted metabolomic approach based on reversed-phase liquid chromatography–mass spectrometry to evaluate coffee roasting process. Analytical and Bioanalytical Chemistry, 2018, 410, 7859-7870.	3.7	25
43	Separation of enantiomers of deprenyl with various CDs in CE and the effect of enantiomer migration order on enantiomeric impurity determination of selegiline in active ingredients and tablets. Electrophoresis, 2007, 28, 388-394.	2.4	24
44	CE methods for the determination of nonâ€protein amino acids in foods. Electrophoresis, 2007, 28, 4031-4045.	2.4	24
45	Comprehensive metabolomic study of the response of HK-2 cells to hyperglycemic hypoxic diabetic-like milieu. Scientific Reports, 2021, 11, 5058.	3.3	24
46	Chiral Micellar Electrokinetic Chromatography. Journal of Chromatography A, 2020, 1626, 461383.	3.7	23
47	Determination of betaines in vegetable oils by capillary electrophoresis tandem mass spectrometry – application to the detection of olive oil adulteration with seed oils. Electrophoresis, 2011, 32, 1394-1401.	2.4	22
48	Enantiomeric separation of the antiuremic drug colchicine by electrokinetic chromatography. Method development and quantitative analysis. Journal of Pharmaceutical and Biomedical Analysis, 2017, 138, 189-196.	2.8	22
49	Isolation of proteins from spent coffee grounds. Polyphenol removal and peptide identification in the protein hydrolysates by RP-HPLC-ESI-Q-TOF. Food Research International, 2020, 137, 109368.	6.2	22
50	Enantiomeric determination of econazole and sulconazole by electrokinetic chromatography using hydroxypropyl-β-cyclodextrin combined with ionic liquids based on L-lysine and L-glutamic acid. Journal of Chromatography A, 2020, 1621, 461085.	3.7	22
51	Sensitized phosphorescence as detection method for the enantioseparation of bupropion by capillary electrophoresis. Electrophoresis, 2010, 31, 3928-3936.	2.4	21
52	Strategies for a cleaner new scientific discipline of green foodomics. TrAC - Trends in Analytical Chemistry, 2013, 52, 23-35.	11.4	21
53	Nuclear magnetic resonance to study the interactions acting in the enantiomeric separation of homocysteine by capillary electrophoresis with a dual system of γâ€cyclodextrin and the chiral ionic liquid EtCholNTf ₂ . Electrophoresis, 2019, 40, 1913-1920.	2.4	21
54	Enantiomeric separation of homocysteine and cysteine by electrokinetic chromatography using mixtures of Î ³ -cyclodextrin and carnitine-based ionic liquids. Microchemical Journal, 2020, 157, 105070.	4.5	21

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55	Capillary electrophoresis-mass spectrometry metabolic fingerprinting of green and roasted coffee. Journal of Chromatography A, 2019, 1605, 360353.	3.7	19
56	Separation and quantitation of the four stereoisomers of itraconazole in pharmaceutical formulations by electrokinetic chromatography. Electrophoresis, 2006, 27, 887-895.	2.4	18
57	Sensitive and fast determination of Sudan dyes in chilli powder by partialâ€filling micellar electrokinetic chromatography–tandem mass spectrometry. Electrophoresis, 2012, 33, 705-712.	2.4	18
58	An untargeted metabolomic strategy based on liquid chromatography-mass spectrometry to study high glucose-induced changes in HK-2 cells. Journal of Chromatography A, 2019, 1596, 124-133.	3.7	18
59	CHAPTER 6. Supercritical Fluid Extraction. RSC Green Chemistry, 2013, , 196-230.	0.1	16
60	Untargeted HILIC-MS-Based Metabolomics Approach to Evaluate Coffee Roasting Process: Contributing to an Integrated Metabolomics Multiplatform. Molecules, 2020, 25, 887.	3.8	16
61	Simultaneous separation of epinephrine and norepinephrine enantiomers by EKC: Application to the analysis of pharmaceutical formulations. Electrophoresis, 2009, 30, 2947-2954.	2.4	14
62	Subcritical water extraction of bioactive components from algae. , 2013, , 534-560.		14
63	Enantiomeric separation of non-protein amino acids by electrokinetic chromatography. Journal of Chromatography A, 2016, 1467, 409-416.	3.7	14
64	Use of single and dual systems of γ-cyclodextrin or γ -cyclodextrin/L-Carnitine derived ionic liquid for the enantiomeric determination of cysteine by electrokinetic chromatography. A comparative study. Microchemical Journal, 2021, 169, 106596.	4.5	13
65	Quenched phosphorescence as alternative detection mode in the chiral separation of methotrexate by electrokinetic chromatography. Analytical and Bioanalytical Chemistry, 2011, 400, 2913-2919.	3.7	12
66	Advances in the Determination of Nonprotein Amino Acids in Foods and Biological Samples by Capillary Electrophoresis. Critical Reviews in Analytical Chemistry, 2019, 49, 459-475.	3.5	12
67	Enantiomeric separation of prothioconazole and prothioconazole-desthio by Capillary Electrophoresis. Degradation studies in environmental samples. Journal of Chromatography A, 2021, 1651, 462255.	3.7	12
68	The first contribution of capillary electrophoresis to the study of abiotic origins of homochirality: Investigation of the enantioselective adsorption of 3 arboxy adipic acid on minerals. Electrophoresis, 2008, 29, 1548-1555.	2.4	11
69	A Non-Targeted Capillary Electrophoresis-Mass Spectrometry Strategy to Study Metabolic Differences in an In Vitro Model of High-Glucose Induced Changes in Human Proximal Tubular HK-2 Cells. Molecules, 2020, 25, 512.	3.8	11
70	High resolution liquid chromatography tandem mass spectrometry for the separation and identification of peptides in coffee silverskin protein hydrolysates. Microchemical Journal, 2019, 149, 103951.	4.5	10
71	A capillary micellar electrokinetic chromatography method for the stereoselective quantitation of bioallethrin in biotic and abiotic samples. Journal of Chromatography A, 2017, 1510, 108-116.	3.7	9
72	Simultaneous enantioselective separation of polychlorinated biphenyls and their methyl sulfone metabolites by heartâ€cut MDGC: Determination of enantiomeric fractions in fish oils and cow liver samples. Chirality, 2012, 24, 577-583.	2.6	8

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73	A micellar electrokinetic chromatography approach using diastereomeric derivatization and a volatile surfactant for the enantioselective separation of selenomethionine. Electrophoresis, 2019, 40, 1951-1958.	2.4	8
74	Separation and identification of peptides in hydrolysed protein extracts from edible macroalgae by HPLC-ESI-QTOF/MS. Algal Research, 2019, 39, 101465.	4.6	8
75	Synthesis and characterization of carnitine-based ionic liquids and their evaluation as additives in cyclodextrin-electrokinetic chromatography for the chiral separation of thiol amino acids. Journal of Chromatography A, 2022, 1670, 462955.	3.7	8
76	Polyphenols analysis and related challenges. , 2018, , 177-232.		7
77	Derivatization in Capillary Electrophoresis. Methods in Molecular Biology, 2016, 1483, 37-52.	0.9	6
78	Chiral Capillary Electrophoresis-Mass Spectrometry. Methods in Molecular Biology, 2019, 1985, 391-405.	0.9	6
79	A rapid electrokinetic chromatography method using short-end injection for the enantioselective separation of tryptophan. Microchemical Journal, 2021, 168, 106508.	4.5	6
80	Compositional Analysis of Foods. , 2013, , 295-317.		4
81	Compositional analysis of foods. , 2017, , 359-380.		4
82	Time-series proteomic study of the response of HK-2 cells to hyperglycemic, hypoxic diabetic-like milieu. PLoS ONE, 2020, 15, e0235118.	2.5	4
83	Electrophoretic Technique: Capillary Zone Electrophoresis. , 2018, , 659-685.		3
84	Exploratory Metabolomic Analysis Based on Reversed-Phase Liquid Chromatography–Mass Spectrometry to Study an In Vitro Model of Hypoxia-Induced Metabolic Alterations in HK-2 Cells. International Journal of Molecular Sciences, 2021, 22, 7399.	4.1	3
85	Chiral Analysis of Non-Protein Amino Acids by Capillary Electrophoresis. Methods in Molecular Biology, 2019, 2030, 277-291.	0.9	2
86	Rapid and simultaneous determination of polychlorinated biphenyls and their main metabolites (hydroxylated and methyl sulfonyl) by gas chromatography coupled to mass spectrometry: Comparison of different ionisation modes. Analytica Chimica Acta, 2013, 787, 148-154.	5.4	1
87	Pressure hot water processing of food and natural products. , 2019, , 193-220.		1
88	Chiral Capillary Electrophoresis in Food Analysis. Current and Future Developments in Food Science, 2022, , 291-320.	0.1	1
89	Advanced Analytical Tools to Reveal Food-Health Associations. , 2021, , 542-557.		0

90 Capillary Electrophoresis: Chiral Separations. , 2018, , 334-334.

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#	Article	IF	CITATIONS
91	Amino Acid Analysis by Capillary Electromigration Methods. Current and Future Developments in Food Science, 2022, , 147-173.	0.1	о