

Carolina Simo

List of Publications by Year in descending order

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95
papers

4,346
citations

87401

40
h-index

129628

63
g-index

99
all docs

99
docs citations

99
times ranked

5202
citing authors

#	ARTICLE	IF	CITATIONS
1	Foodomics: MS-based strategies in modern food science and nutrition. <i>Mass Spectrometry Reviews</i> , 2012, 31, 49-69.	2.8	327
2	Present and Future Challenges in Food Analysis: Foodomics. <i>Analytical Chemistry</i> , 2012, 84, 10150-10159.	3.2	223
3	Extensive Analysis of the Cytoplasmic Proteome of Human Erythrocytes Using the Peptide Ligand Library Technology and Advanced Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2254-2269.	2.5	208
4	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2010, 31, 205-228.	1.3	163
5	Toward a Predictive Model of Alzheimer's Disease Progression Using Capillary Electrophoresis-Mass Spectrometry Metabolomics. <i>Analytical Chemistry</i> , 2012, 84, 8532-8540.	3.2	152
6	Capillary electrophoresis-mass spectrometry in food analysis. <i>Electrophoresis</i> , 2005, 26, 1306-1318.	1.3	112
7	CE-TOF MS analysis of complex protein hydrolyzates from genetically modified soybeans - A tool for foodomics. <i>Electrophoresis</i> , 2010, 31, 1175-1183.	1.3	109
8	Global Foodomics strategy to investigate the health benefits of dietary constituents. <i>Journal of Chromatography A</i> , 2012, 1248, 139-153.	1.8	107
9	Metabolomics, peptidomics and proteomics applications of capillary electrophoresis-mass spectrometry in Foodomics: A review. <i>Analytica Chimica Acta</i> , 2013, 802, 1-13.	2.6	97
10	Capillary electrophoresis-mass spectrometry of basic proteins using a new physically adsorbed polymer coating. Some applications in food analysis. <i>Electrophoresis</i> , 2004, 25, 2056-2064.	1.3	93
11	Advances in Nutrigenomics research: Novel and future analytical approaches to investigate the biological activity of natural compounds and food functions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 290-304.	1.4	92
12	A new metabolomic workflow for early detection of Alzheimer's disease. <i>Journal of Chromatography A</i> , 2013, 1302, 65-71.	1.8	83
13	CE-LC-MS multiplatform for broad metabolomic analysis of dietary polyphenols effect on colon cancer cells proliferation. <i>Electrophoresis</i> , 2012, 33, 2328-2336.	1.3	82
14	Chiral capillary electrophoresis-mass spectrometry of amino acids in foods. <i>Electrophoresis</i> , 2005, 26, 1432-1441.	1.3	81
15	Metabolomics of Genetically Modified Crops. <i>International Journal of Molecular Sciences</i> , 2014, 15, 18941-18966.	1.8	81
16	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2012, 33, 147-167.	1.3	80
17	Novel MS-based approaches and applications in food metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 100-111.	5.8	80
18	MS-based analytical methodologies to characterize genetically modified crops. <i>Mass Spectrometry Reviews</i> , 2011, 30, 396-416.	2.8	79

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19	Ion-trap versus time-of-flight mass spectrometry coupled to capillary electrophoresis to analyze biogenic amines in wine. <i>Journal of Chromatography A</i> , 2008, 1195, 150-156.	1.8	72
20	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2014, 35, 147-169.	1.3	69
21	Chiral electromigration methods in food analysis. <i>Electrophoresis</i> , 2003, 24, 2431-2441.	1.3	66
22	Chiral capillary electrophoresis in food analysis. <i>Electrophoresis</i> , 2010, 31, 2106-2114.	1.3	64
23	The role of direct high-resolution mass spectrometry in foodomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6275-6287.	1.9	63
24	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2016, 37, 111-141.	1.3	62
25	Analysis of chiral amino acids in cerebrospinal fluid samples linked to different stages of Alzheimer disease. <i>Electrophoresis</i> , 2011, 32, 2757-2764.	1.3	61
26	Faecal Metabolomic Fingerprint after Moderate Consumption of Red Wine by Healthy Subjects. <i>Journal of Proteome Research</i> , 2015, 14, 897-905.	1.8	59
27	Dietary bioactive ingredients to modulate the gut microbiota-derived metabolite TMAO. New opportunities for functional food development. <i>Food and Function</i> , 2020, 11, 6745-6776.	2.1	57
28	Recent transcriptomics advances and emerging applications in food science. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 142-154.	5.8	54
29	Comprehensive Foodomics Study on the Mechanisms Operating at Various Molecular Levels in Cancer Cells in Response to Individual Rosemary Polyphenols. <i>Analytical Chemistry</i> , 2014, 86, 9807-9815.	3.2	54
30	Sensitive Micellar Electrokinetic Chromatography-Laser-Induced Fluorescence Method To Analyze Chiral Amino Acids in Orange Juices. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 5288-5293.	2.4	52
31	Performance of Combinatorial Peptide Libraries in Capturing the Low-Abundance Proteome of Red Blood Cells. 1. Behavior of Mono- to Hexapeptides. <i>Analytical Chemistry</i> , 2008, 80, 3547-3556.	3.2	52
32	Effect of dietary polyphenols on K562 leukemia cells: A Foodomics approach. <i>Electrophoresis</i> , 2012, 33, 2314-2327.	1.3	51
33	Carrier ampholytes for IEF, on their fortieth anniversary (1967-2007), brought to trial in court: The verdict. <i>Electrophoresis</i> , 2007, 28, 3799-3810.	1.3	50
34	Application of stepwise discriminant analysis to classify commercial orange juices using chiral micellar electrokinetic chromatography-laser induced fluorescence data of amino acids. <i>Electrophoresis</i> , 2004, 25, 2885-2891.	1.3	48
35	Capillary electrophoresis-mass spectrometry of peptides from enzymatic protein hydrolysis: Simulation and optimization. <i>Electrophoresis</i> , 2003, 24, 834-842.	1.3	47
36	Characterization of proteins from <i>Spirulina platensis</i> microalga using capillary electrophoresis-ion trap-mass spectrometry and capillary electrophoresis-time of flight-mass spectrometry. <i>Electrophoresis</i> , 2005, 26, 2674-2683.	1.3	44

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37	Is metabolomics reachable? Different purification strategies of human colon cancer cells provide different CE-MS metabolite profiles. <i>Electrophoresis</i> , 2011, 32, 1765-1777.	1.3	44
38	Foodomics strategies for the analysis of transgenic foods. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 2-15.	5.8	44
39	Nonaqueous and aqueous capillary electrophoresis of synthetic polymers. <i>Journal of Chromatography A</i> , 2005, 1068, 59-73.	1.8	42
40	Capillary electrophoresis-mass spectrometry of <i>Spirulina platensis</i> proteins obtained by pressurized liquid extraction. <i>Electrophoresis</i> , 2005, 26, 4215-4224.	1.3	42
41	Anionic metabolite profiling by capillary electrophoresis-mass spectrometry using a noncovalent polymeric coating. Orange juice and wine as case studies. <i>Journal of Chromatography A</i> , 2016, 1428, 326-335.	1.8	42
42	Impact of Glutathione-Enriched Inactive Dry Yeast Preparations on the Stability of Terpenes during Model Wine Aging. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1373-1383.	2.4	41
43	Performance of Combinatorial Peptide Libraries in Capturing the Low-Abundance Proteome of Red Blood Cells. 2. Behavior of Resins Containing Individual Amino Acids. <i>Analytical Chemistry</i> , 2008, 80, 3557-3565.	3.2	40
44	Drug delivery systems: polymers and drugs monitored by capillary electromigration methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 797, 37-49.	1.2	37
45	Chiral CE-MS. <i>Electrophoresis</i> , 2010, 31, 1442-1456.	1.3	37
46	Combining Peptide Modeling and Capillary Electrophoresis-Mass Spectrometry for Characterization of Enzymes Cleavage Patterns: A Recombinant versus Natural Bovine Pepsin A. <i>Analytical Chemistry</i> , 2005, 77, 7709-7716.	3.2	33
47	Simulation and optimization of peptide separation by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2002, 23, 2288.	1.3	32
48	Fast and sensitive capillary electrophoresis method to quantitatively monitor ibuprofen enantiomers released from polymeric drug delivery systems. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 767, 35-43.	1.2	32
49	Nonaqueous Capillary Electrophoresis-Mass Spectrometry of Synthetic Polymers. <i>Analytical Chemistry</i> , 2004, 76, 335-344.	3.2	32
50	Metabolomics of adherent mammalian cells by capillary electrophoresis-mass spectrometry: HT-29 cells as case study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 110, 83-92.	1.4	30
51	GC-MS based metabolomics of colon cancer cells using different extraction solvents. <i>Analytica Chimica Acta</i> , 2017, 986, 48-56.	2.6	28
52	Nano-liquid Chromatography-orbitrap MS-based Quantitative Proteomics Reveals Differences Between the Mechanisms of Action of Carnosic Acid and Carnosol in Colon Cancer Cells. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 8-22.	2.5	27
53	Analysis of Antioxidants from Orange Juice Obtained by Countercurrent Supercritical Fluid Extraction, Using Micellar Electrokinetic Chromatography and Reverse-Phase Liquid Chromatography. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6648-6652.	2.4	26
54	An Ultrahigh-Performance Liquid Chromatography-Time-of-Flight Mass Spectrometry Metabolomic Approach to Studying the Impact of Moderate Red-Wine Consumption on Urinary Metabolome. <i>Journal of Proteome Research</i> , 2018, 17, 1624-1635.	1.8	26

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55	Evaluation of filter paper collection of urine samples for detection and measurement of organic acidurias by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 780, 73-82.	1.2	24
56	Mass distribution and focusing properties of carrier ampholytes for isoelectric focusing: I. A novel and unexpected results. <i>Electrophoresis</i> , 2006, 27, 3919-3934.	1.3	24
57	Foodomics study on the effects of extracellular production of hydrogen peroxide by rosemary polyphenols on the anti-proliferative activity of rosemary polyphenols against HT29 cells. <i>Electrophoresis</i> , 2016, 37, 1795-1804.	1.3	24
58	Detection and quantitation of a bioactive compound in <i>Vicia narbonensis</i> L. seeds by capillary electrophoresis-mass spectrometry: A comparative study with UV detection. <i>Electrophoresis</i> , 2005, 26, 2351-2359.	1.3	22
59	Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF. IV: pH 6-8 intervals. <i>Electrophoresis</i> , 2007, 28, 1488-1494.	1.3	21
60	Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF II: pH 4-6 intervals. <i>Electrophoresis</i> , 2006, 27, 4849-4858.	1.3	20
61	Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF. III: pH 2.5-4 intervals. <i>Electrophoresis</i> , 2007, 28, 715-723.	1.3	18
62	Recent Advances and Applications of Metabolomics to Investigate Neurodegenerative Diseases. <i>International Review of Neurobiology</i> , 2015, 122, 95-132.	0.9	18
63	Capillary electrophoresis-mass spectrometry of citrus endophytic bacteria siderophores. <i>Electrophoresis</i> , 2006, 27, 2567-2574.	1.3	17
64	A Foodomics Approach: CE-MS for Comparative Metabolomics of Colon Cancer Cells Treated with Dietary Polyphenols. <i>Methods in Molecular Biology</i> , 2012, 869, 185-195.	0.4	17
65	The mitochondrial negative regulator MCJ modulates the interplay between microbiota and the host during ulcerative colitis. <i>Scientific Reports</i> , 2020, 10, 572.	1.6	17
66	Plasma metabolome and skin proteins in Charcot-Marie-Tooth 1A patients. <i>PLoS ONE</i> , 2017, 12, e0178376.	1.1	16
67	Capillary Electrophoresis-Mass Spectrometry for Peptide Analysis: Target-Based Approaches and Proteomics/Peptidomics Strategies. <i>Methods in Molecular Biology</i> , 2013, 984, 139-151.	0.4	15
68	Monitoring ibuprofen enantiomers released from polymeric systems. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 16, 75-82.	1.9	14
69	The immunosuppressive effect of the tick protein, Salp15, is long-lasting and persists in a murine model of hematopoietic transplant. <i>Scientific Reports</i> , 2017, 7, 10740.	1.6	14
70	Decreased Cerebrospinal Fluid Levels of L-Carnitine in Non-Apolipoprotein E4 Carriers at Early Stages of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 223-232.	1.2	13
71	Metabolomics study of early metabolic changes in hepatic HepaRG cells in response to rosemary diterpenes exposure. <i>Analytica Chimica Acta</i> , 2018, 1037, 140-151.	2.6	13
72	New Pseudopeptidic Cross-Linker Containing Urea Bonds: A Study of Its Degradation Routes in Aqueous Media Using Capillary Electrophoresis-Mass Spectrometry. <i>Biomacromolecules</i> , 2006, 7, 720-727.	2.6	11

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73	Mass distribution, polydispersity, and focusing properties of carrier ampholytes for IEF. Part V: pH 9-11 interval. <i>Electrophoresis</i> , 2007, 28, 3156-3162.	1.3	11
74	Potential of prodendronic polyamines with modulated segmental charge density as novel coating for fast and efficient analysis of peptides and basic proteins by CE and CE-MS. <i>Electrophoresis</i> , 2015, 36, 1564-1571.	1.3	11
75	Capillary Electrophoresis in Food and Foodomics. <i>Methods in Molecular Biology</i> , 2016, 1483, 471-507.	0.4	11
76	Background correction in separation techniques hyphenated to high-resolution mass spectrometry – Thorough correction with mass spectrometry scans recorded as profile spectra. <i>Journal of Chromatography A</i> , 2017, 1492, 98-105.	1.8	11
77	Capillary electrophoresis-mass spectrometry of a new cross-linker with acrylic functionality. <i>Electrophoresis</i> , 2006, 27, 2250-2258.	1.3	9
78	Metabolomics in Alzheimer's disease research. <i>Electrophoresis</i> , 2013, 34, 2799-2811.	1.3	8
79	Finnee – A Matlab toolbox for separation techniques hyphenated high resolution mass spectrometry dataset. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 155, 138-144.	1.8	8
80	Screening gut microbial trimethylamine production by fast and cost-effective capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2697-2705.	1.9	8
81	Introducing the concept of centergram. A new tool to squeeze data from separation techniques – mass spectrometry couplings. <i>Journal of Chromatography A</i> , 2014, 1330, 89-96.	1.8	7
82	Mass spectrometry detection in capillary electrophoresis. <i>Comprehensive Analytical Chemistry</i> , 2005, 45, 441-517.	0.7	5
83	Algorithm for comprehensive analysis of datasets from hyphenated high resolution mass spectrometric techniques using single ion profiles and cluster analysis. <i>Journal of Chromatography A</i> , 2016, 1429, 134-141.	1.8	5
84	Foodomics: LC and LC-MS-based omics strategies in food science and nutrition. , 2017, , 267-299.		5
85	Profiling of Genetically Modified Organisms Using Omics Technologies. <i>Comprehensive Analytical Chemistry</i> , 2014, , 349-373.	0.7	4
86	Direct Mass Spectrometry-Based Approaches in Metabolomics. <i>Comprehensive Analytical Chemistry</i> , 2014, , 235-253.	0.7	3
87	A Foodomics Approach: CE-MS for Comparative Metabolomics of Colon Cancer Cells Treated with Dietary Polyphenols. <i>Methods in Molecular Biology</i> , 2019, 1855, 303-313.	0.4	3
88	Resazurin-based high-throughput screening method for the discovery of dietary phytochemicals to target microbial transformation of L-carnitine into trimethylamine, a gut metabolite associated with cardiovascular disease. <i>Food and Function</i> , 2022, 13, 5640-5653.	2.1	3
89	Emerging RNA-Seq Applications in Food Science. <i>Comprehensive Analytical Chemistry</i> , 2014, , 107-128.	0.7	2
90	Metabolomics in the Study of Alzheimer's Disease. <i>Comprehensive Analytical Chemistry</i> , 2014, 64, 249-278.	0.7	2

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91	Food Metabolomicsâ€™ An Overview. , 2019, , .		1
92	Comparative Proteomics to Investigate the In Vitro Antiproliferative Effect of Dietary Polyphenols Against K562 Leukemia Cells. Turkish Journal of Biochemistry, 0, , .	0.3	0
93	CE-MS in Food Analysis and Foodomics. , 0, , 193-215.		0
94	CE-MS Workflows for Metabolomics: A Focus on Sample Preparation. New Developments in Mass Spectrometry, 2018, , 21-52.	0.2	0
95	Food Transcriptomicsâ€™ An Overview. , 2019, , .		0