

# Virginia Garcia-Caas

## List of Publications by Citations

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74  
papers

3,412  
citations

37  
h-index

57  
g-index

78  
ext. papers

3,659  
ext. citations

5.3  
avg, IF

5.31  
L-index

#	Paper	IF	Citations
74	Foodomics: MS-based strategies in modern food science and nutrition. <i>Mass Spectrometry Reviews</i> , <b>2012</b> , 31, 49-69	11	291
73	Present and future challenges in food analysis: foodomics. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 10150-9	7.8	196
72	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , <b>2010</b> , 31, 205-28	3.6	149
71	Comparative metabolomic study of transgenic versus conventional soybean using capillary electrophoresis-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , <b>2008</b> , 1195, 164-73	4.5	109
70	Capillary electrophoresis time-of-flight mass spectrometry for comparative metabolomics of transgenic versus conventional maize. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6329-35	7.8	105
69	Recent advances in the application of capillary electromigration methods for food analysis. <i>Electrophoresis</i> , <b>2008</b> , 29, 294-309	3.6	97
68	Global Foodomics strategy to investigate the health benefits of dietary constituents. <i>Journal of Chromatography A</i> , <b>2012</b> , 1248, 139-53	4.5	96
67	Anti-proliferative activity and chemical characterization by comprehensive two-dimensional liquid chromatography coupled to mass spectrometry of phlorotannins from the brown macroalga <i>Sargassum muticum</i> collected on North-Atlantic coasts. <i>Journal of Chromatography A</i> , <b>2016</b> , 1428, 115-25	4.5	93
66	Metabolomics of transgenic maize combining Fourier transform-ion cyclotron resonance-mass spectrometry, capillary electrophoresis-mass spectrometry and pressurized liquid extraction. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 7314-23	4.5	89
65	Metabolomics, peptidomics and proteomics applications of capillary electrophoresis-mass spectrometry in Foodomics: a review. <i>Analytica Chimica Acta</i> , <b>2013</b> , 802, 1-13	6.6	80
64	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , <b>2012</b> , 33, 147-67	3.6	77
63	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> , <b>2010</b> , 51, 290-304	3.5	75
62	CE/LC-MS multiplatform for broad metabolomic analysis of dietary polyphenols effect on colon cancer cells proliferation. <i>Electrophoresis</i> , <b>2012</b> , 33, 2328-36	3.6	73
61	MS-based analytical methodologies to characterize genetically modified crops. <i>Mass Spectrometry Reviews</i> , <b>2011</b> , 30, 396-416	11	73
60	Novel MS-based approaches and applications in food metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2013</b> , 52, 100-111	14.6	68
59	Modified cyclodextrins for fast and sensitive chiral-capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , <b>2009</b> , 30, 1734-42	3.6	67
58	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , <b>2014</b> , 35, 147-69	3.6	66

57	Metabolomics of genetically modified crops. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 18941666	6.6	63
56	Effect of rosemary polyphenols on human colon cancer cells: transcriptomic profiling and functional enrichment analysis. <i>Genes and Nutrition</i> , <b>2013</b> , 8, 43-60	4.3	62
55	The role of direct high-resolution mass spectrometry in foodomics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 6275-87	4.4	60
54	Detection of genetically modified maize by the polymerase chain reaction and capillary gel electrophoresis with UV detection and laser-induced fluorescence. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 1016-21	5.7	60
53	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , <b>2016</b> , 37, 111-41	3.6	59
52	Chiral capillary electrophoresis in food analysis. <i>Electrophoresis</i> , <b>2010</b> , 31, 2106-14	3.6	59
51	Selective and quantitative detection of influenza virus proteins in commercial vaccines using two-dimensional high-performance liquid chromatography and fluorescence detection. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 3164-72	7.8	59
50	Sensitive and simultaneous analysis of five transgenic maizes using multiplex polymerase chain reaction, capillary gel electrophoresis, and laser-induced fluorescence. <i>Electrophoresis</i> , <b>2004</b> , 25, 2219-26	3.6	57
49	Detection of genetically modified organisms in foods by DNA amplification techniques. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2004</b> , 44, 425-36	11.5	57
48	Ultrasensitive detection of genetically modified maize DNA by capillary gel electrophoresis with laser-induced fluorescence using different fluorescent intercalating dyes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 4497-502	5.7	56
47	Simultaneous and sensitive detection of three foodborne pathogens by multiplex PCR, capillary gel electrophoresis, and laser-induced fluorescence. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 7180-6	5.7	53
46	Comprehensive foodomics study on the mechanisms operating at various molecular levels in cancer cells in response to individual rosemary polyphenols. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9807-15	7.8	48
45	Quantitation of transgenic Bt event-176 maize using double quantitative competitive polymerase chain reaction and capillary gel electrophoresis laser-induced fluorescence. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2306-13	7.8	48
44	Effect of dietary polyphenols on K562 leukemia cells: a Foodomics approach. <i>Electrophoresis</i> , <b>2012</b> , 33, 2314-27	3.6	46
43	Recent transcriptomics advances and emerging applications in food science. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2013</b> , 52, 142-154	14.6	44
42	The combined use of molecular techniques and capillary electrophoresis in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2004</b> , 23, 637-643	14.6	43
41	A Series of Collaborations Between Various Pharmaceutical Companies and Regulatory Authorities Concerning the Analysis of Biomolecules Using Capillary Electrophoresis. <i>Chromatographia</i> , <b>2006</b> , 64, 359-368	2.1	42
40	Supercritical antisolvent fractionation of rosemary extracts obtained by pressurized liquid extraction to enhance their antiproliferative activity. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 581-589	4.2	41

39	Foodomics strategies for the analysis of transgenic foods. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2013</b> , 52, 2-15	14.6	39
38	Pressurized liquid extraction of <i>Neochloris oleoabundans</i> for the recovery of bioactive carotenoids with anti-proliferative activity against human colon cancer cells. <i>Food Research International</i> , <b>2017</b> , 99, 1048-1055	7	37
37	Rapid and selective characterization of influenza virus constituents in monovalent and multivalent preparations using non-porous reversed-phase high performance liquid chromatography columns. <i>Journal of Chromatography A</i> , <b>2006</b> , 1123, 225-32	4.5	37
36	Highly reproducible capillary gel electrophoresis (CGE) of DNA fragments using uncoated columns. Detection of genetically modified maize by PCR-cGE. <i>Journal of Separation Science</i> , <b>2002</b> , 25, 577-583	3.4	37
35	Two-step sequential supercritical fluid extracts from rosemary with enhanced anti-proliferative activity. <i>Journal of Functional Foods</i> , <b>2014</b> , 11, 293-303	5.1	35
34	Rosemary polyphenols induce unfolded protein response and changes in cholesterol metabolism in colon cancer cells. <i>Journal of Functional Foods</i> , <b>2015</b> , 15, 429-439	5.1	32
33	Comprehensive Proteomic Study of the Antiproliferative Activity of a Polyphenol-Enriched Rosemary Extract on Colon Cancer Cells Using Nanoliquid Chromatography-Orbitrap MS/MS. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1971-85	5.6	32
32	Dietary bioactive ingredients to modulate the gut microbiota-derived metabolite TMAO. New opportunities for functional food development. <i>Food and Function</i> , <b>2020</b> , 11, 6745-6776	6.1	29
31	Detection of microbial food contaminants and their products by capillary electromigration techniques. <i>Electrophoresis</i> , <b>2007</b> , 28, 4013-30	3.6	28
30	Chiral CE-MS. <i>Electrophoresis</i> , <b>2010</b> , 31, 1442-56	3.6	27
29	Comparative Study of Green Sub- and Supercritical Processes to Obtain Carnosic Acid and Carnosol-Enriched Rosemary Extracts with in Vitro Anti-Proliferative Activity on Colon Cancer Cells. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	27
28	Metabolomics of adherent mammalian cells by capillary electrophoresis-mass spectrometry: HT-29 cells as case study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 110, 83-92	3.5	26
27	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> , <b>2017</b> , 16, 8-22	7.6	21
26	Reversed-phase high-performance liquid chromatography-electrospray mass spectrometry profiling of transgenic and non-transgenic maize for cultivar characterization. <i>Journal of Chromatography A</i> , <b>2009</b> , 1216, 7222-8	4.5	21
25	Polymethoxylated Flavones Target Cancer Stemness and Improve the Antiproliferative Effect of 5-Fluorouracil in a 3D Cell Model of Colorectal Cancer. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	20
24	Simultaneous detection of genetically modified organisms by multiplex ligation-dependent genome amplification and capillary gel electrophoresis with laser-induced fluorescence. <i>Electrophoresis</i> , <b>2010</b> , 31, 2249-59	3.6	20
23	Foodomics study on the effects of extracellular production of hydrogen peroxide by rosemary polyphenols on the anti-proliferative activity of rosemary polyphenols against HT-29 cells. <i>Electrophoresis</i> , <b>2016</b> , 37, 1795-804	3.6	20
22	Shotgun proteomic analysis to study the decrease of xenograft tumor growth after rosemary extract treatment. <i>Journal of Chromatography A</i> , <b>2017</b> , 1499, 90-100	4.5	18

21	Fast and sensitive detection of genetically modified yeasts in wine. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 7550-6	4.5	17
20	Approach to the profiling and characterization of influenza vaccine constituents by the combined use of size-exclusion chromatography, gel electrophoresis and mass spectrometry. <i>Biologicals</i> , <b>2010</b> , 38, 294-302	1.8	17
19	Simultaneous confirmatory analysis of different transgenic maize (zea mays) lines using multiplex polymerase chain reaction-restriction analysis and capillary gel electrophoresis with laser induced fluorescence detection. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 8280-6	5.7	16
18	A Series of Collaborations between Various Pharmaceutical Companies and Regulatory Authorities Concerning the Analysis of Biomolecules Using Capillary Electrophoresis: Additional Instruments/Buffer. <i>Chromatographia</i> , <b>2007</b> , 66, 955-961	2.1	15
17	Detection and differentiation of several food-spoilage lactic acid bacteria by multiplex polymerase chain reaction, capillary gel electrophoresis, and laser-induced fluorescence. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 5583-7	5.7	15
16	The immunosuppressive effect of the tick protein, Salp15, is long-lasting and persists in a murine model of hematopoietic transplant. <i>Scientific Reports</i> , <b>2017</b> , 7, 10740	4.9	11
15	CGE-laser induced fluorescence of double-stranded DNA fragments using GelGreen dye. <i>Electrophoresis</i> , <b>2013</b> , 34, 1555-62	3.6	11
14	Capillary Electrophoresis in Food and Foodomics. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1483, 471-507	1.4	10
13	Combining ligation reaction and capillary gel electrophoresis to obtain reliable long DNA probes. <i>Journal of Separation Science</i> , <b>2011</b> , 34, 1011-9	3.4	9
12	Metabolomics study of early metabolic changes in hepatic HepaRG cells in response to rosemary diterpenes exposure. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 140-151	6.6	8
11	Foodomics: LC and LC-MS-based omics strategies in food science and nutrition <b>2017</b> , 267-299		5
10	Direct Mass Spectrometry-Based Approaches in Metabolomics. <i>Comprehensive Analytical Chemistry</i> , <b>2014</b> , 235-253	1.9	3
9	Screening gut microbial trimethylamine production by fast and cost-effective capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 2697-2705	4.4	2
8	Emerging RNA-Seq Applications in Food Science. <i>Comprehensive Analytical Chemistry</i> , <b>2014</b> , 107-128	1.9	2
7	Foodomics Strategies for the Analysis of Genetically Modified Crops <b>2014</b> , 15-44		1
6	Profiling of Genetically Modified Organisms Using Omics Technologies. <i>Comprehensive Analytical Chemistry</i> , <b>2014</b> , 349-373	1.9	1
5	Metabolomics in the Study of Alzheimer's Disease. <i>Comprehensive Analytical Chemistry</i> , <b>2014</b> , 64, 249-278.	8.9	1
4	Food Metabolomics: An Overview <b>2019</b> ,		1

3 CE-MS in Food Analysis and Foodomics **2016**, 193-215

2 MS-Based Methodologies for Transgenic Foods Development and Characterization **2013**, 191-220

1 A Particular Case of Novel Food **2012**, 575-597