

Virginia Garcia-Cañas

List of Publications by Year in descending order

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75
papers

3,895
citations

81743

39
h-index

123241

61
g-index

78
all docs

78
docs citations

78
times ranked

4023
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	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2010, 31, 205-228.	1.3	163
4	Comparative metabolomic study of transgenic versus conventional soybean using capillary electrophoresis-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1195, 164-173.	1.8	123
5	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> , 2016, 1428, 115-125.	1.8	116
6	Capillary Electrophoresis Time-of-Flight Mass Spectrometry for Comparative Metabolomics of Transgenic versus Conventional Maize. <i>Analytical Chemistry</i> , 2008, 80, 6329-6335.	3.2	115
7	Global Foodomics strategy to investigate the health benefits of dietary constituents. <i>Journal of Chromatography A</i> , 2012, 1248, 139-153.	1.8	107
8	Recent advances in the application of capillary electromigration methods for food analysis. <i>Electrophoresis</i> , 2008, 29, 294-309.	1.3	104
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	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> , 2009, 1216, 7314-7323.	1.8	92
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	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
13	Metabolomics of Genetically Modified Crops. <i>International Journal of Molecular Sciences</i> , 2014, 15, 18941-18966.	1.8	81
14	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2012, 33, 147-167.	1.3	80
15	Novel MS-based approaches and applications in food metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 100-111.	5.8	80
16	MS-based analytical methodologies to characterize genetically modified crops. <i>Mass Spectrometry Reviews</i> , 2011, 30, 396-416.	2.8	79
17	Effect of rosemary polyphenols on human colon cancer cells: transcriptomic profiling and functional enrichment analysis. <i>Genes and Nutrition</i> , 2013, 8, 43-60.	1.2	71
18	Modified cyclodextrins for fast and sensitive chiral-capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2009, 30, 1734-1742.	1.3	69

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19	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2014, 35, 147-169.	1.3	69
20	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> , 2002, 50, 1016-1021.	2.4	66
21	Chiral capillary electrophoresis in food analysis. <i>Electrophoresis</i> , 2010, 31, 2106-2114.	1.3	64
22	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> , 2002, 50, 4497-4502.	2.4	63
23	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> , 2007, 79, 3164-3172.	3.2	63
24	The role of direct high-resolution mass spectrometry in foodomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6275-6287.	1.9	63
25	Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2016, 37, 111-141.	1.3	62
26	Sensitive and simultaneous analysis of five transgenic maizes using multiplex polymerase chain reaction, capillary gel electrophoresis, and laser-induced fluorescence. <i>Electrophoresis</i> , 2004, 25, 2219-2226.	1.3	61
27	Detection of Genetically Modified Organisms in Foods by DNA Amplification Techniques. <i>Critical Reviews in Food Science and Nutrition</i> , 2004, 44, 425-436.	5.4	61
28	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> , 2017, 99, 1048-1055.	2.9	61
29	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> , 2004, 52, 7180-7186.	2.4	58
30	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
31	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> , 2004, 76, 2306-2313.	3.2	54
32	Recent transcriptomics advances and emerging applications in food science. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 142-154.	5.8	54
33	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
34	Effect of dietary polyphenols on K562 leukemia cells: A Foodomics approach. <i>Electrophoresis</i> , 2012, 33, 2314-2327.	1.3	51
35	A Series of Collaborations Between Various Pharmaceutical Companies and Regulatory Authorities Concerning the Analysis of Biomolecules Using Capillary Electrophoresis. <i>Chromatographia</i> , 2006, 64, 359-368.	0.7	45
36	Supercritical antisolvent fractionation of rosemary extracts obtained by pressurized liquid extraction to enhance their antiproliferative activity. <i>Journal of Supercritical Fluids</i> , 2016, 107, 581-589.	1.6	45

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37	The combined use of molecular techniques and capillary electrophoresis in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 637-643.	5.8	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	Two-step sequential supercritical fluid extracts from rosemary with enhanced anti-proliferative activity. <i>Journal of Functional Foods</i> , 2014, 11, 293-303.	1.6	44
40	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> , 2006, 1123, 225-232.	1.8	39
41	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> , 2002, 25, 577-583.	1.3	38
42	Chiral CE-MS. <i>Electrophoresis</i> , 2010, 31, 1442-1456.	1.3	37
43	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> , 2016, 15, 1971-1985.	1.8	36
44	Detection of microbial food contaminants and their products by capillary electromigration techniques. <i>Electrophoresis</i> , 2007, 28, 4013-4030.	1.3	34
45	Rosemary polyphenols induce unfolded protein response and changes in cholesterol metabolism in colon cancer cells. <i>Journal of Functional Foods</i> , 2015, 15, 429-439.	1.6	34
46	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> , 2016, 17, 2046.	1.8	34
47	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
48	Polymethoxylated Flavones Target Cancer Stemness and Improve the Antiproliferative Effect of 5-Fluorouracil in a 3D Cell Model of Colorectal Cancer. <i>Nutrients</i> , 2019, 11, 326.	1.7	30
49	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
50	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> , 2009, 1216, 7222-7228.	1.8	26
51	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> , 2016, 37, 1795-1804.	1.3	24
52	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> , 2010, 38, 294-302.	0.5	22
53	Simultaneous detection of genetically modified organisms by multiplex ligation-dependent genome amplification and capillary gel electrophoresis with laser-induced fluorescence. <i>Electrophoresis</i> , 2010, 31, 2249-2259.	1.3	22
54	Shotgun proteomic analysis to study the decrease of xenograft tumor growth after rosemary extract treatment. <i>Journal of Chromatography A</i> , 2017, 1499, 90-100.	1.8	21

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55	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> , 2004, 52, 5583-5587.	2.4	17
56	Fast and sensitive detection of genetically modified yeasts in wine. <i>Journal of Chromatography A</i> , 2011, 1218, 7550-7556.	1.8	17
57	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> , 2007, 66, 955-961.	0.7	16
58	Simultaneous Confirmatory Analysis of Different Transgenic Maize (<i>Zea mays</i>) 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> , 2008, 56, 8280-8286.	2.4	16
59	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
60	CGE-Laser induced fluorescence of double-stranded DNA fragments using Green dye. <i>Electrophoresis</i> , 2013, 34, 1555-1562.	1.3	13
61	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
62	Capillary Electrophoresis in Food and Foodomics. <i>Methods in Molecular Biology</i> , 2016, 1483, 471-507.	0.4	11
63	Combining ligation reaction and capillary gel electrophoresis to obtain reliable long DNA probes. <i>Journal of Separation Science</i> , 2011, 34, 1011-1019.	1.3	10
64	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
65	Foodomics: LC and LC-MS-based omics strategies in food science and nutrition. , 2017, , 267-299.		5
66	Profiling of Genetically Modified Organisms Using Omics Technologies. <i>Comprehensive Analytical Chemistry</i> , 2014, , 349-373.	0.7	4
67	Direct Mass Spectrometry-Based Approaches in Metabolomics. <i>Comprehensive Analytical Chemistry</i> , 2014, , 235-253.	0.7	3
68	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
69	Emerging RNA-Seq Applications in Food Science. <i>Comprehensive Analytical Chemistry</i> , 2014, , 107-128.	0.7	2
70	Metabolomics in the Study of Alzheimer's Disease. <i>Comprehensive Analytical Chemistry</i> , 2014, 64, 249-278.	0.7	2
71	Foodomics Strategies for the Analysis of Genetically Modified Crops. , 2014, , 15-44.		1
72	Food Metabolomics-An Overview. , 2019, , .		1

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73	A Particular Case of Novel Food. , 2012, , 575-597.		0
74	CE-MS in Food Analysis and Foodomics. , 0, , 193-215.		0
75	Food Transcriptomicsâ€™ An Overview. , 2019, , .		0