

Carolina Simo

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

4,346
citations

76326
40
h-index

114465
63
g-index

99
all docs

99
docs citations

99
times ranked

4762
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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. Food and Function, 2022, 13, 5640-5653. | 4.6 | 3 |
| 2 | Dietary bioactive ingredients to modulate the gut microbiota-derived metabolite TMAO. New opportunities for functional food development. Food and Function, 2020, 11, 6745-6776. | 4.6 | 57 |
| 3 | The mitochondrial negative regulator MCJ modulates the interplay between microbiota and the host during ulcerative colitis. Scientific Reports, 2020, 10, 572. | 3.3 | 17 |
| 4 | Screening gut microbial trimethylamine production by fast and cost-effective capillary electrophoresis. Analytical and Bioanalytical Chemistry, 2019, 411, 2697-2705. | 3.7 | 8 |
| 5 | A Foodomics Approach: CE-MS for Comparative Metabolomics of Colon Cancer Cells Treated with Dietary Polyphenols. Methods in Molecular Biology, 2019, 1855, 303-313. | 0.9 | 3 |
| 6 | Food Metabolomics—An Overview. , 2019, , . | | 1 |
| 7 | Food Transcriptomics—An Overview. , 2019, , . | | 0 |
| 8 | An Ultrahigh-Performance Liquid Chromatography—Time-of-Flight Mass Spectrometry Metabolomic Approach to Studying the Impact of Moderate Red-Wine Consumption on Urinary Metabolome. Journal of Proteome Research, 2018, 17, 1624-1635. | 3.7 | 26 |
| 9 | Metabolomics study of early metabolic changes in hepatic HepaRG cells in response to rosemary diterpenes exposure. Analytica Chimica Acta, 2018, 1037, 140-151. | 5.4 | 13 |
| 10 | CE-MS Workflows for Metabolomics: A Focus on Sample Preparation. New Developments in Mass Spectrometry, 2018, , 21-52. | 0.2 | 0 |
| 11 | Background correction in separation techniques hyphenated to high-resolution mass spectrometry —Thorough correction with mass spectrometry scans recorded as profile spectra. Journal of Chromatography A, 2017, 1492, 98-105. | 3.7 | 11 |
| 12 | The immunosuppressive effect of the tick protein, Salp15, is long-lasting and persists in a murine model of hematopoietic transplant. Scientific Reports, 2017, 7, 10740. | 3.3 | 14 |
| 13 | GC-MS based metabolomics of colon cancer cells using different extraction solvents. Analytica Chimica Acta, 2017, 986, 48-56. | 5.4 | 28 |
| 14 | Nano-liquid Chromatography-orbitrap MS-based Quantitative Proteomics Reveals Differences Between the Mechanisms of Action of Carnosic Acid and Carnosol in Colon Cancer Cells. Molecular and Cellular Proteomics, 2017, 16, 8-22. | 3.8 | 27 |
| 15 | Foodomics: LC and LC-MS-based omics strategies in food science and nutrition. , 2017, , 267-299. | | 5 |
| 16 | Plasma metabolome and skin proteins in Charcot-Marie-Tooth 1A patients. PLoS ONE, 2017, 12, e0178376. | 2.5 | 16 |
| 17 | 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. Electrophoresis, 2016, 37, 1795-1804. | 2.4 | 24 |
| 18 | Finnee — A Matlab toolbox for separation techniques hyphenated high resolution mass spectrometry dataset. Chemometrics and Intelligent Laboratory Systems, 2016, 155, 138-144. | 3.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Capillary Electrophoresis in Food and Foodomics. <i>Methods in Molecular Biology</i> , 2016, 1483, 471-507. | 0.9 | 11 |
| 20 | 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. | 3.7 | 5 |
| 21 | Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2016, 37, 111-141. | 2.4 | 62 |
| 22 | 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. | 3.7 | 42 |
| 23 | Faecal Metabolomic Fingerprint after Moderate Consumption of Red Wine by Healthy Subjects. <i>Journal of Proteome Research</i> , 2015, 14, 897-905. | 3.7 | 59 |
| 24 | 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. | 2.8 | 30 |
| 25 | Recent Advances and Applications of Metabolomics to Investigate Neurodegenerative Diseases. <i>International Review of Neurobiology</i> , 2015, 122, 95-132. | 2.0 | 18 |
| 26 | 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. | 2.4 | 11 |
| 27 | The role of direct high-resolution mass spectrometry in foodomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6275-6287. | 3.7 | 63 |
| 28 | Profiling of Genetically Modified Organisms Using Omics Technologies. <i>Comprehensive Analytical Chemistry</i> , 2014, , 349-373. | 1.3 | 4 |
| 29 | Emerging RNA-Seq Applications in Food Science. <i>Comprehensive Analytical Chemistry</i> , 2014, , 107-128. | 1.3 | 2 |
| 30 | Metabolomics in the Study of Alzheimer's Disease. <i>Comprehensive Analytical Chemistry</i> , 2014, 64, 249-278. | 1.3 | 2 |
| 31 | Metabolomics of Genetically Modified Crops. <i>International Journal of Molecular Sciences</i> , 2014, 15, 18941-18966. | 4.1 | 81 |
| 32 | Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2014, 35, 147-169. | 2.4 | 69 |
| 33 | 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. | 3.7 | 7 |
| 34 | 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. | 2.6 | 13 |
| 35 | Direct Mass Spectrometry-Based Approaches in Metabolomics. <i>Comprehensive Analytical Chemistry</i> , 2014, , 235-253. | 1.3 | 3 |
| 36 | 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. | 5.2 | 41 |

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|----|--|------|-----------|
| 37 | 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. | 6.5 | 54 |
| 38 | Metabolomics, peptidomics and proteomics applications of capillary electrophoresis-mass spectrometry in Foodomics: A review. <i>Analytica Chimica Acta</i> , 2013, 802, 1-13. | 5.4 | 97 |
| 39 | Foodomics strategies for the analysis of transgenic foods. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 2-15. | 11.4 | 44 |
| 40 | Recent transcriptomics advances and emerging applications in food science. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 142-154. | 11.4 | 54 |
| 41 | Capillary Electrophoresis-Mass Spectrometry for Peptide Analysis: Target-Based Approaches and Proteomics/Peptidomics Strategies. <i>Methods in Molecular Biology</i> , 2013, 984, 139-151. | 0.9 | 15 |
| 42 | Metabolomics in Alzheimer's disease research. <i>Electrophoresis</i> , 2013, 34, 2799-2811. | 2.4 | 8 |
| 43 | A new metabolomic workflow for early detection of Alzheimer's disease. <i>Journal of Chromatography A</i> , 2013, 1302, 65-71. | 3.7 | 83 |
| 44 | Novel MS-based approaches and applications in food metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 52, 100-111. | 11.4 | 80 |
| 45 | Toward a Predictive Model of Alzheimer's Disease Progression Using Capillary Electrophoresis-Mass Spectrometry Metabolomics. <i>Analytical Chemistry</i> , 2012, 84, 8532-8540. | 6.5 | 152 |
| 46 | Present and Future Challenges in Food Analysis: Foodomics. <i>Analytical Chemistry</i> , 2012, 84, 10150-10159. | 6.5 | 223 |
| 47 | Global Foodomics strategy to investigate the health benefits of dietary constituents. <i>Journal of Chromatography A</i> , 2012, 1248, 139-153. | 3.7 | 107 |
| 48 | Effect of dietary polyphenols on K562 leukemia cells: A Foodomics approach. <i>Electrophoresis</i> , 2012, 33, 2314-2327. | 2.4 | 51 |
| 49 | CE/LC-MS multiplatform for broad metabolomic analysis of dietary polyphenols effect on colon cancer cells proliferation. <i>Electrophoresis</i> , 2012, 33, 2328-2336. | 2.4 | 82 |
| 50 | 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. | 0.9 | 17 |
| 51 | Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2012, 33, 147-167. | 2.4 | 80 |
| 52 | Foodomics: MS-based strategies in modern food science and nutrition. <i>Mass Spectrometry Reviews</i> , 2012, 31, 49-69. | 5.4 | 327 |
| 53 | MS-based analytical methodologies to characterize genetically modified crops. <i>Mass Spectrometry Reviews</i> , 2011, 30, 396-416. | 5.4 | 79 |
| 54 | Is metabolomics reachable? Different purification strategies of human colon cancer cells provide different CE-MS metabolite profiles. <i>Electrophoresis</i> , 2011, 32, 1765-1777. | 2.4 | 44 |

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|----|--|-----|-----------|
| 55 | Analysis of chiral amino acids in cerebrospinal fluid samples linked to different stages of Alzheimer disease. <i>Electrophoresis</i> , 2011, 32, 2757-2764. | 2.4 | 61 |
| 56 | Recent advances in the application of capillary electromigration methods for food analysis and Foodomics. <i>Electrophoresis</i> , 2010, 31, 205-228. | 2.4 | 163 |
| 57 | CE-TOF MS analysis of complex protein hydrolyzates from genetically modified soybeans – A tool for foodomics. <i>Electrophoresis</i> , 2010, 31, 1175-1183. | 2.4 | 109 |
| 58 | Chiral CE-MS. <i>Electrophoresis</i> , 2010, 31, 1442-1456. | 2.4 | 37 |
| 59 | Chiral capillary electrophoresis in food analysis. <i>Electrophoresis</i> , 2010, 31, 2106-2114. | 2.4 | 64 |
| 60 | 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. | 2.8 | 92 |
| 61 | 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. | 3.7 | 72 |
| 62 | 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. | 6.5 | 40 |
| 63 | 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. | 6.5 | 52 |
| 64 | 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. | 3.8 | 208 |
| 65 | Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF. III: pH 2.5–4 intervals. <i>Electrophoresis</i> , 2007, 28, 715-723. | 2.4 | 18 |
| 66 | Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF. IV: pH 6–8 intervals. <i>Electrophoresis</i> , 2007, 28, 1488-1494. | 2.4 | 21 |
| 67 | Mass distribution, polydispersity, and focusing properties of carrier ampholytes for IEF. Part V: pH 9–11 interval. <i>Electrophoresis</i> , 2007, 28, 3156-3162. | 2.4 | 11 |
| 68 | Carrier ampholytes for IEF, on their fortieth anniversary (1967–2007), brought to trial in court: The verdict. <i>Electrophoresis</i> , 2007, 28, 3799-3810. | 2.4 | 50 |
| 69 | 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. | 5.4 | 11 |
| 70 | Capillary electrophoresis-mass spectrometry of a new cross-linker with acrylic functionality. <i>Electrophoresis</i> , 2006, 27, 2250-2258. | 2.4 | 9 |
| 71 | Capillary electrophoresis-mass spectrometry of citrus endophytic bacteria siderophores. <i>Electrophoresis</i> , 2006, 27, 2567-2574. | 2.4 | 17 |
| 72 | Mass distribution and focusing properties of carrier ampholytes for isoelectric focusing: I. A novel and unexpected results. <i>Electrophoresis</i> , 2006, 27, 3919-3934. | 2.4 | 24 |

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| 73 | Mass distribution, polydispersity and focusing properties of carrier ampholytes for IEF II: pH 4–6 intervals. <i>Electrophoresis</i> , 2006, 27, 4849-4858. | 2.4 | 20 |
| 74 | Nonaqueous and aqueous capillary electrophoresis of synthetic polymers. <i>Journal of Chromatography A</i> , 2005, 1068, 59-73. | 3.7 | 42 |
| 75 | Chiral capillary electrophoresis-mass spectrometry of amino acids in foods. <i>Electrophoresis</i> , 2005, 26, 1432-1441. | 2.4 | 81 |
| 76 | Capillary electrophoresis-mass spectrometry in food analysis. <i>Electrophoresis</i> , 2005, 26, 1306-1318. | 2.4 | 112 |
| 77 | 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. | 2.4 | 22 |
| 78 | 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. | 2.4 | 44 |
| 79 | Capillary electrophoresis-mass spectrometry of <i>Spirulina platensis</i> proteins obtained by pressurized liquid extraction. <i>Electrophoresis</i> , 2005, 26, 4215-4224. | 2.4 | 42 |
| 80 | 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. | 6.5 | 33 |
| 81 | Mass spectrometry detection in capillary electrophoresis. <i>Comprehensive Analytical Chemistry</i> , 2005, 45, 441-517. | 1.3 | 5 |
| 82 | 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. | 2.4 | 93 |
| 83 | 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. | 2.4 | 48 |
| 84 | Nonaqueous Capillary Electrophoresis–Mass Spectrometry of Synthetic Polymers. <i>Analytical Chemistry</i> , 2004, 76, 335-344. | 6.5 | 32 |
| 85 | Chiral electromigration methods in food analysis. <i>Electrophoresis</i> , 2003, 24, 2431-2441. | 2.4 | 66 |
| 86 | Capillary electrophoresis-mass spectrometry of peptides from enzymatic protein hydrolysis: Simulation and optimization. <i>Electrophoresis</i> , 2003, 24, 834-842. | 2.4 | 47 |
| 87 | 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. | 2.3 | 37 |
| 88 | 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. | 5.2 | 26 |
| 89 | 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. | 5.2 | 52 |
| 90 | Monitoring ibuprofen enantiomers released from polymeric systems. <i>European Journal of Pharmaceutical Sciences</i> , 2002, 16, 75-82. | 4.0 | 14 |

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|----|--|-----|-----------|
| 91 | Simulation and optimization of peptide separation by capillary electrophoresis-mass spectrometry. Electrophoresis, 2002, 23, 2288. | 2.4 | 32 |
| 92 | Fast and sensitive capillary electrophoresis method to quantitatively monitor ibuprofen enantiomers released from polymeric drug delivery systems. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 767, 35-43. | 2.3 | 32 |
| 93 | Evaluation of filter paper collection of urine samples for detection and measurement of organic acidurias by capillary electrophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 780, 73-82. | 2.3 | 24 |
| 94 | Comparative Proteomics to Investigate the In Vitro Antiproliferative Effect of Dietary Polyphenols Against K562 Leukemia Cells. Turkish Journal of Biochemistry, 0, , . | 0.5 | 0 |
| 95 | CE-MS in Food Analysis and Foodomics. , 0, , 193-215. | | 0 |