

Alina D Zamfir

List of Publications by Year in descending order

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98
papers

2,637
citations

136950

32
h-index

223800

46
g-index

98
all docs

98
docs citations

98
times ranked

1508
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Capillary electrophoresis-mass spectrometry for glycoscreening in biomedical research. <i>Electrophoresis</i> , 2004, 25, 1949-1963. | 2.4 | 123 |
| 2 | Glycosylation analysis of glycoproteins and proteoglycans using capillary electrophoresis-mass spectrometry strategies. <i>Electrophoresis</i> , 2008, 29, 2485-2507. | 2.4 | 87 |
| 3 | On-line sheathless capillary electrophoresis/nanoelectrospray ionization-tandem mass spectrometry for the analysis of glycosaminoglycan oligosaccharides. <i>Electrophoresis</i> , 2004, 25, 2010-2016. | 2.4 | 83 |
| 4 | Structural investigation of chondroitin/dermatan sulfate oligosaccharides from human skin fibroblast decorin. <i>Glycobiology</i> , 2003, 13, 733-742. | 2.5 | 81 |
| 5 | Recent advances in sheathless interfacing of capillary electrophoresis and electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 2-13. | 3.7 | 80 |
| 6 | Structural characterization of chondroitin/dermatan sulfate oligosaccharides from bovine aorta by capillary electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2015-2024. | 1.5 | 74 |
| 7 | Fully-automated chip-based nanoelectrospray tandem mass spectrometry of gangliosides from human cerebellum. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1649-1657. | 2.8 | 74 |
| 8 | Human gliosarcoma-associated ganglioside composition is complex and distinctive as evidenced by high-performance mass spectrometric determination and structural characterization. <i>Glycobiology</i> , 2007, 17, 504-515. | 2.5 | 71 |
| 9 | Fully Automated Chip-Based Mass Spectrometry for Complex Carbohydrate System Analysis. <i>Analytical Chemistry</i> , 2004, 76, 2046-2054. | 6.5 | 70 |
| 10 | Coupling of fully automated chip-based electrospray ionization to high-capacity ion trap mass spectrometer for ganglioside analysis. <i>Analytical Biochemistry</i> , 2008, 378, 43-52. | 2.4 | 69 |
| 11 | Electrospray Ionization Ion Mobility Mass Spectrometry of Human Brain Gangliosides. <i>Analytical Chemistry</i> , 2016, 88, 5166-5178. | 6.5 | 65 |
| 12 | Screening and sequencing of complex sialylated and sulfated glycosphingolipid mixtures by negative ion electrospray Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 571-580. | 2.8 | 56 |
| 13 | Chip electrospray mass spectrometry for carbohydrate analysis. <i>Electrophoresis</i> , 2005, 26, 3650-3673. | 2.4 | 56 |
| 14 | Levansucrases from <i>Pseudomonas syringae</i> pv. tomato and <i>P. chlororaphis</i> subsp. aurantiaca: Substrate specificity, polymerizing properties and usage of different acceptors for fructosylation. <i>Journal of Biotechnology</i> , 2011, 155, 338-349. | 3.8 | 55 |
| 15 | Glycoscreening by on-line sheathless capillary electrophoresis/electrospray ionization-quadrupole time of flight-tandem mass spectrometry. <i>Electrophoresis</i> , 2001, 22, 2448-2457. | 2.4 | 53 |
| 16 | Analysis of human hippocampus gangliosides by fully-automated chip-based nanoelectrospray tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1130, 238-245. | 3.7 | 49 |
| 17 | Coupling of fully automated chip electrospray to Fourier transform ion cyclotron resonance mass spectrometry for high-performance glycoscreening and sequencing. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 3084-3092. | 1.5 | 45 |
| 18 | Modern developments in mass spectrometry of chondroitin and dermatan sulfate glycosaminoglycans. <i>Amino Acids</i> , 2011, 41, 235-256. | 2.7 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | High-performance separation techniques hyphenated to mass spectrometry for ganglioside analysis. <i>Electrophoresis</i> , 2011, 32, 1591-1609. | 2.4 | 44 |
| 20 | A capillary electrophoresis and off-line capillary electrophoresis/electrospray ionization-quadrupole time of flight-tandem mass spectrometry approach for ganglioside analysis. <i>Electrophoresis</i> , 2002, 23, 2894-2903. | 2.4 | 43 |
| 21 | Determination of ganglioside composition and structure in human brain hemangioma by chip-based nanoelectrospray ionization tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2465-2477. | 3.7 | 43 |
| 22 | Assessment of the Molecular Expression and Structure of Gangliosides in Brain Metastasis of Lung Adenocarcinoma by an Advanced Approach Based on Fully Automated Chip-Nanoelectrospray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2145-2159. | 2.8 | 41 |
| 23 | Thin chip microsyringe system coupled to quadrupole time-of-flight mass spectrometer for glycoconjugate analysis. <i>Lab on A Chip</i> , 2005, 5, 298. | 6.0 | 39 |
| 24 | Copper-coated microsyringe interface for on-line sheathless capillary electrophoresis electrospray mass spectrometry of carbohydrates. <i>Journal of Separation Science</i> , 2006, 29, 414-422. | 2.5 | 39 |
| 25 | Identification of a High-Affinity-Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Noncovalent Enzyme-Ligand Complex. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2429-2434. | 13.8 | 36 |
| 26 | Recent developments and applications of electron transfer dissociation mass spectrometry in proteomics. <i>Amino Acids</i> , 2014, 46, 1625-1634. | 2.7 | 34 |
| 27 | Capillary electrophoresis and off-line capillary electrophoresis-electrospray ionization quadrupole time-of-flight tandem mass spectrometry of carbohydrates. <i>Journal of Chromatography A</i> , 2000, 895, 291-299. | 3.7 | 33 |
| 28 | O ₂ An cross-ring cleavage as a general diagnostic tool for glycan assignment in glycoconjugate mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1863-1868. | 2.8 | 33 |
| 29 | High-Throughput Analysis of Gangliosides in Defined Regions of Fetal Brain by Fully Automated Chip-Based Nanoelectrospray Ionization Multi-Stage Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2009, 15, 541-553. | 1.0 | 33 |
| 30 | A thin chip microsyringe system coupled to Fourier transform ion cyclotron resonance mass spectrometry for glycopeptide screening. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2913-2920. | 1.5 | 32 |
| 31 | Off-line capillary electrophoresis/fully automated nanoelectrospray chip quadrupole time-of-flight mass spectrometry and tandem mass spectrometry for glycoconjugate analysis. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1190-1201. | 1.6 | 32 |
| 32 | Sheathless reverse-polarity capillary electrophoresis-electrospray-mass spectrometry for analysis of underivatized glycoconjugates. <i>Electrophoresis</i> , 2005, 26, 1488-1499. | 2.4 | 32 |
| 33 | Analysis of novel over- and under-sulfated glycosaminoglycan sequences by enzyme cleavage and multiple stage MS. <i>Proteomics</i> , 2009, 9, 3435-3444. | 2.2 | 32 |
| 34 | A decorin-deficient matrix affects skin chondroitin/dermatan sulfate levels and keratinocyte function. <i>Matrix Biology</i> , 2014, 35, 91-102. | 3.6 | 32 |
| 35 | Sialylation analysis of O-glycosylated sialylated peptides from urine of patients suffering from Schindler's disease by Fourier transform ion cyclotron resonance mass spectrometry and sustained off-resonance irradiation collision-induced dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2822-2832. | 1.5 | 31 |
| 36 | Neurological Analyses: Focus on Gangliosides and Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 153-204. | 1.6 | 31 |

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|----|--|-----|-----------|
| 37 | Determination of sulfation pattern in brain glycosaminoglycans by chip-based electrospray ionization ion trap mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2489-2498. | 3.7 | 29 |
| 38 | Top-down glycolipidomics: fragmentation analysis of ganglioside oligosaccharide core and ceramide moiety by chip-nano electrospray collision-induced dissociation MS ² -MS ⁶ . <i>Journal of Mass Spectrometry</i> , 2009, 44, 1434-1442. | 1.6 | 27 |
| 39 | Assessment of ganglioside age-related and topographic specificity in human brain by Orbitrap mass spectrometry. <i>Analytical Biochemistry</i> , 2017, 521, 40-54. | 2.4 | 27 |
| 40 | Ion mobility mass spectrometry provides novel insights into the expression and structure of gangliosides in the normal adult human hippocampus. <i>Analyst</i> , 2018, 143, 5234-5246. | 3.5 | 27 |
| 41 | Chip-nano electrospray quadrupole time-of-flight tandem mass spectrometry of meningioma gangliosides: A preliminary study. <i>Electrophoresis</i> , 2012, 33, 1778-1786. | 2.4 | 26 |
| 42 | Electrospray ionization ion mobility mass spectrometry provides novel insights into the pattern and activity of fetal hippocampus gangliosides. <i>Biochimie</i> , 2017, 139, 81-94. | 2.6 | 25 |
| 43 | Profiling and sequence analysis of gangliosides in human astrocytoma by high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7321-7335. | 3.7 | 24 |
| 44 | Applications of capillary electrophoresis electrospray ionization mass spectrometry in glycosaminoglycan analysis. <i>Electrophoresis</i> , 2016, 37, 973-986. | 2.4 | 24 |
| 45 | Chip-based nano electrospray mass spectrometry of brain gangliosides. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 513-535. | 2.4 | 21 |
| 46 | Early stage fetal neocortex exhibits a complex ganglioside profile as revealed by high resolution tandem mass spectrometry. <i>Glycoconjugate Journal</i> , 2014, 31, 231-245. | 2.7 | 21 |
| 47 | Mass spectrometry of gangliosides in extracranial tumors: Application to adrenal neuroblastoma. <i>Analytical Biochemistry</i> , 2016, 509, 1-11. | 2.4 | 21 |
| 48 | Analysis of oversulfation in a chondroitin sulfate oligosaccharide fraction from bovine aorta by nano electrospray ionization quadrupole time-of-flight and fourier-transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 179-187. | 2.8 | 20 |
| 49 | Fully automated chip-based negative mode nano electrospray mass spectrometry of fructooligosaccharides produced by heterologously expressed levansucrase from <i>Pseudomonas syringae</i> pv. tomato DC3000. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1337-1346. | 1.5 | 20 |
| 50 | Profiling and sequencing of gangliosides from human caudate nucleus by chip-nano electrospray mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1561-1570. | 1.6 | 20 |
| 51 | Application of ion mobility tandem mass spectrometry to compositional and structural analysis of glycopeptides extracted from the urine of a patient diagnosed with Schindler disease. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1929-1937. | 1.5 | 20 |
| 52 | Application of Chip-Based Nano electrospray Ion Trap Mass Spectrometry to Compositional and Structural Analysis of Gangliosides in Human Fetal Cerebellum. <i>Analytical Letters</i> , 2011, 44, 1036-1049. | 1.8 | 19 |
| 53 | Galactosaminoglycan Function and Oligosaccharide Structure Determination. <i>Scientific World Journal</i> , 2007, 7, 233-241. | 2.1 | 18 |
| 54 | Cerebrospinal fluid: Profiling and fragmentation of gangliosides by ion mobility mass spectrometry. <i>Biochimie</i> , 2020, 170, 36-48. | 2.6 | 18 |

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|----|--|-----|-----------|
| 55 | Gangliosides of Human Glioblastoma Multiforme: A Comprehensive Mapping and Structural Analysis by Ion Mobility Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1249-1257. | 2.8 | 17 |
| 56 | Brain Chondroitin/Dermatan Sulfate, from Cerebral Tissue to Fine Structure: Extraction, Preparation, and Fully Automated Chip-Electrospray Mass Spectrometric Analysis. <i>Methods in Molecular Biology</i> , 2012, 836, 145-159. | 0.9 | 17 |
| 57 | Mechanistic Aspects and Applications of Chiral Ligand-Exchange Chromatography. , 2016, 49, 80-143. | | 16 |
| 58 | Glycated peptides are associated with proximal tubule dysfunction in type 2 diabetes mellitus. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 2516-25. | 1.3 | 16 |
| 59 | Mass Spectrometry of Gangliosides from Human Sensory and Motor Cortex. <i>Australian Journal of Chemistry</i> , 2013, 66, 781. | 0.9 | 15 |
| 60 | Ion mobility mass spectrometry of human melanoma gangliosides. <i>Biochimie</i> , 2020, 177, 226-237. | 2.6 | 15 |
| 61 | A novel approach for ganglioside structural analysis based on electrospray multiple-stage mass spectrometry. <i>Journal of Biomolecular Techniques</i> , 2007, 18, 188-93. | 1.5 | 15 |
| 62 | Analysis of oversulfation in biglycan chondroitin/dermatan sulfate oligosaccharides by chip-based nanoelectrospray ionization multistage mass spectrometry. <i>Analytical Biochemistry</i> , 2012, 420, 155-162. | 2.4 | 14 |
| 63 | Orbitrap mass spectrometry for monitoring the ganglioside pattern in human cerebellum development and aging. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4502. | 1.6 | 14 |
| 64 | Discrimination of GalNAc (4S/6S) sulfation sites in chondroitin sulfate disaccharides by chip-based nanoelectrospray multistage mass spectrometry. <i>Open Chemistry</i> , 2009, 7, 752-759. | 1.9 | 13 |
| 65 | Trends in Glycolipid Biomarker Discovery in Neurodegenerative Disorders by Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 703-729. | 1.6 | 13 |
| 66 | Separation and Identification of Glycoforms by Capillary Electrophoresis with Electrospray Ionization Mass Spectrometric Detection. <i>Methods in Molecular Biology</i> , 2013, 951, 145-169. | 0.9 | 12 |
| 67 | Identification of an unusually sulfated tetrasaccharide chondroitin/dermatan motif in mouse brain by combining chip-nanoelectrospray multistage MS ² and high resolution MS ⁴ . <i>Electrophoresis</i> , 2013, 34, 1581-1592. | 2.4 | 12 |
| 68 | Qualitative and quantitative analysis of gallic acid in <i>Alchemilla vulgaris</i> , <i>Allium ursinum</i> , <i>Acorus calamus</i> and <i>Solidago virga-aurea</i> by chip-electrospray ionization mass spectrometry and high performance liquid chromatography. <i>Open Chemistry</i> , 2010, 8, 530-535. | 1.9 | 10 |
| 69 | Combining size-exclusion chromatography and fully automated chip-based nanoelectrospray quadrupole time-of-flight tandem mass spectrometry for structural analysis of chondroitin/dermatan sulfate in human decorin. <i>Electrophoresis</i> , 2011, 32, 1639-1646. | 2.4 | 10 |
| 70 | Testing the feasibility of fully automated chip-based nanoelectrospray ionization mass spectrometry as a novel tool for rapid diagnosis of Fabry disease. <i>Electrophoresis</i> , 2013, 34, 1572-1580. | 2.4 | 10 |
| 71 | Orbitrap mass spectrometry characterization of hybrid chondroitin/dermatan sulfate hexasaccharide domains expressed in brain. <i>Analytical Biochemistry</i> , 2015, 485, 122-131. | 2.4 | 9 |
| 72 | Gangliosidome of human anencephaly: A high resolution multistage mass spectrometry study. <i>Biochimie</i> , 2019, 163, 142-151. | 2.6 | 9 |

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|----|---|-----|-----------|
| 73 | Automated chip-nanoelectrospray mass spectrometry for glycourinomics in Schindler disease type I. Carbohydrate Research, 2014, 398, 90-100. | 2.3 | 8 |
| 74 | Chip-based high resolution tandem mass spectrometric determination of fibroblast growth factor-chondroitin sulfate disaccharides noncovalent interaction. Journal of Mass Spectrometry, 2018, 53, 624-634. | 1.6 | 8 |
| 75 | Gangliosides as Biomarkers of Human Brain Diseases: Trends in Discovery and Characterization by High-Performance Mass Spectrometry. International Journal of Molecular Sciences, 2022, 23, 693. | 4.1 | 8 |
| 76 | Characterization of peptides by capillary zone electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry. Journal of Separation Science, 2002, 25, 1101-1111. | 2.5 | 7 |
| 77 | Synthesis and structural characterization of amino-functionalized polysaccharides. Open Chemistry, 2009, 7, 66-73. | 1.9 | 7 |
| 78 | Fully automated chip-based nanoelectrospray combined with electron transfer dissociation for high throughput top-down proteomics. Open Chemistry, 2013, 11, 25-34. | 1.9 | 7 |
| 79 | B Subunit Monomers of Cholera Toxin Bind G1 Ganglioside Class as Revealed by Chip-Nanoelectrospray Multistage Mass Spectrometry. Journal of Carbohydrate Chemistry, 2015, 34, 388-408. | 1.1 | 7 |
| 80 | Human caudate nucleus exhibits a highly complex ganglioside pattern as revealed by high-resolution multistage Orbitrap MS. Journal of Carbohydrate Chemistry, 2019, 38, 531-551. | 1.1 | 7 |
| 81 | Urinary proteins detected using modern proteomics intervene in early type 2 diabetic kidney disease – a pilot study. Biomarkers in Medicine, 2020, 14, 1521-1536. | 1.4 | 7 |
| 82 | Ion Mobility Mass Spectrometry Reveals Rare Sialylated Glycosphingolipid Structures in Human Cerebrospinal Fluid. Molecules, 2022, 27, 743. | 3.8 | 7 |
| 83 | Reprint of: Chip-based nanoelectrospray mass spectrometry of brain gangliosides. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 897-917. | 2.4 | 6 |
| 84 | High resolution mass spectrometry provides novel insights into the ganglioside pattern of brain cavernous hemangioma. Analytical Biochemistry, 2020, 609, 113976. | 2.4 | 6 |
| 85 | Developments and Applications of separation and microfluidics methods coupled to electrospray mass spectrometry in glycomics of nervous system gangliosides. Electrophoresis, 2021, 42, 429-449. | 2.4 | 6 |
| 86 | Protein Carbohydrate Analysis. Methods in Molecular Biology, 2008, 441, 19-39. | 0.9 | 6 |
| 87 | Identification and structural characterization of novel O- and N-glycoforms in the urine of a Schindler disease patient by Orbitrap mass spectrometry. Journal of Mass Spectrometry, 2015, 50, 1044-1056. | 1.6 | 3 |
| 88 | Microfluidics-Mass Spectrometry of Protein-Carbohydrate Interactions: Applications to the Development of Therapeutics and Biomarker Discovery. Methods in Molecular Biology, 2017, 1647, 109-128. | 0.9 | 3 |
| 89 | High-resolution mass spectrometry reveals a complex ganglioside pattern and novel polysialylated structures associated with the human motor cortex. European Journal of Mass Spectrometry, 2021, 27, 205-214. | 1.0 | 3 |
| 90 | Gangliosidome of a Human Hippocampus in Temporal Lobe Epilepsy Resolved by High-Resolution Tandem Mass Spectrometry. Molecules, 2022, 27, 4056. | 3.8 | 3 |

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|----|--|-----|-----------|
| 91 | Mapping and Sequencing of Gangliosides from Anencephaly by Electrospray Ionization High Capacity Ion Trap Mass Spectrometry. NATO Science for Peace and Security Series A: Chemistry and Biology, 2008, , 71-82. | 0.5 | 2 |
| 92 | Structural analysis by electrospray ionization mass spectrometry of GT1 ganglioside fraction isolated from fetal brain. Journal of Carbohydrate Chemistry, 2017, 36, 247-264. | 1.1 | 2 |
| 93 | High resolution mass spectrometric characterization of amino linked oligosaccharides a preliminary study. Open Chemistry, 2013, 11, 1309-1319. | 1.9 | 1 |
| 94 | Nanofluidics-Based Mass Spectrometry. Applications for Biomarker Discovery in Lysosomal Storage Diseases. , 2015, , 137-165. | | 1 |
| 95 | Î²-Lactoglobulin detected in human milk forms noncovalent complexes with maltooligosaccharides as revealed by chip-nanoelectrospray high-resolution tandem mass spectrometry. Amino Acids, 2015, 47, 2399-2407. | 2.7 | 1 |
| 96 | Liquid-phase separation methods hyphenated to electrospray ionization mass spectrometry for structural analysis of chondroitin/dermatan sulfate. , 2021, , 529-562. | | 1 |
| 97 | Sustainable Nanosystem Development for Mass Spectrometry. Advances in Chemical and Materials Engineering Book Series, 2017, , 535-568. | 0.3 | 1 |
| 98 | Modern techniques for separation, mass spectrometric detection, and characterization of glycolipids. , 2021, , 485-527. | | 0 |