

# Alina D Zamfir

## List of Publications by Year in descending order

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98  
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2,637  
citations

136950

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Mobility Mass Spectrometry Reveals Rare Sialylated Glycosphingolipid Structures in Human Cerebrospinal Fluid. <i>Molecules</i> , 2022, 27, 743.	3.8	7
2	Gangliosides as Biomarkers of Human Brain Diseases: Trends in Discovery and Characterization by High-Performance Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2022, 23, 693.	4.1	8
3	Gangliosidome of a Human Hippocampus in Temporal Lobe Epilepsy Resolved by High-Resolution Tandem Mass Spectrometry. <i>Molecules</i> , 2022, 27, 4056.	3.8	3
4	Developments and Applications of separation and microfluidics methods coupled to electrospray mass spectrometry in glycomics of nervous system gangliosides. <i>Electrophoresis</i> , 2021, 42, 429-449.	2.4	6
5	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
6	High-resolution mass spectrometry reveals a complex ganglioside pattern and novel polysialylated structures associated with the human motor cortex. <i>European Journal of Mass Spectrometry</i> , 2021, 27, 205-214.	1.0	3
7	Modern techniques for separation, mass spectrometric detection, and characterization of glycolipids. , 2021, , 485-527.		0
8	Liquid-phase separation methods hyphenated to electrospray ionization mass spectrometry for structural analysis of chondroitin/dermatan sulfate. , 2021, , 529-562.		1
9	Cerebrospinal fluid: Profiling and fragmentation of gangliosides by ion mobility mass spectrometry. <i>Biochimie</i> , 2020, 170, 36-48.	2.6	18
10	High resolution mass spectrometry provides novel insights into the ganglioside pattern of brain cavernous hemangioma. <i>Analytical Biochemistry</i> , 2020, 609, 113976.	2.4	6
11	Ion mobility mass spectrometry of human melanoma gangliosides. <i>Biochimie</i> , 2020, 177, 226-237.	2.6	15
12	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
13	Urinary proteins detected using modern proteomics intervene in early type 2 diabetic kidney disease – a pilot study. <i>Biomarkers in Medicine</i> , 2020, 14, 1521-1536.	1.4	7
14	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
15	Human caudate nucleus exhibits a highly complex ganglioside pattern as revealed by high-resolution multistage Orbitrap MS. <i>Journal of Carbohydrate Chemistry</i> , 2019, 38, 531-551.	1.1	7
16	Gangliosidome of human anencephaly: A high resolution multistage mass spectrometry study. <i>Biochimie</i> , 2019, 163, 142-151.	2.6	9
17	Ion mobility mass spectrometry provides novel insights into the expression and structure of gangliosides in the normal adult human hippocampus. <i>Analyst</i> , The, 2018, 143, 5234-5246.	3.5	27
18	Chip-based high resolution tandem mass spectrometric determination of fibroblast growth factor – chondroitin sulfate disaccharides noncovalent interaction. <i>Journal of Mass Spectrometry</i> , 2018, 53, 624-634.	1.6	8

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19	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
20	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
21	Microfluidics-Mass Spectrometry of Protein-Carbohydrate Interactions: Applications to the Development of Therapeutics and Biomarker Discovery. <i>Methods in Molecular Biology</i> , 2017, 1647, 109-128.	0.9	3
22	Structural analysis by electrospray ionization mass spectrometry of GT1 ganglioside fraction isolated from fetal brain. <i>Journal of Carbohydrate Chemistry</i> , 2017, 36, 247-264.	1.1	2
23	Sustainable Nanosystem Development for Mass Spectrometry. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2017, , 535-568.	0.3	1
24	Electrospray Ionization Ion Mobility Mass Spectrometry of Human Brain Gangliosides. <i>Analytical Chemistry</i> , 2016, 88, 5166-5178.	6.5	65
25	Applications of capillary electrophoresis electrospray ionization mass spectrometry in glycosaminoglycan analysis. <i>Electrophoresis</i> , 2016, 37, 973-986.	2.4	24
26	Mass spectrometry of gangliosides in extracranial tumors: Application to adrenal neuroblastoma. <i>Analytical Biochemistry</i> , 2016, 509, 1-11.	2.4	21
27	Mechanistic Aspects and Applications of Chiral Ligand-Exchange Chromatography. , 2016, 49, 80-143.		16
28	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
29	Identification and structural characterization of novel O- and N-glycoforms in the urine of a Schindler disease patient by Orbitrap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1044-1056.	1.6	3
30	Nanofluidics-Based Mass Spectrometry. Applications for Biomarker Discovery in Lysosomal Storage Diseases. , 2015, , 137-165.		1
31	B Subunit Monomers of Cholera Toxin Bind G1 Ganglioside Class as Revealed by Chip-Nanoelectrospray Multistage Mass Spectrometry. <i>Journal of Carbohydrate Chemistry</i> , 2015, 34, 388-408.	1.1	7
32	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
33	Î²-Lactoglobulin detected in human milk forms noncovalent complexes with maltooligosaccharides as revealed by chip-nanoelectrospray high-resolution tandem mass spectrometry. <i>Amino Acids</i> , 2015, 47, 2399-2407.	2.7	1
34	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
35	Automated chip-nanoelectrospray mass spectrometry for glycourinomics in Schindler disease type I. <i>Carbohydrate Research</i> , 2014, 398, 90-100.	2.3	8
36	Recent developments and applications of electron transfer dissociation mass spectrometry in proteomics. <i>Amino Acids</i> , 2014, 46, 1625-1634.	2.7	34

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37	A decorin-deficient matrix affects skin chondroitin/dermatan sulfate levels and keratinocyte function. <i>Matrix Biology</i> , 2014, 35, 91-102.	3.6	32
38	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
39	Neurological Analyses: Focus on Gangliosides and Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 153-204.	1.6	31
40	Mass Spectrometry of Gangliosides from Human Sensory and Motor Cortex. <i>Australian Journal of Chemistry</i> , 2013, 66, 781.	0.9	15
41	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
42	High resolution mass spectrometric characterization of amino linked oligosaccharides – a preliminary study. <i>Open Chemistry</i> , 2013, 11, 1309-1319.	1.9	1
43	Fully automated chip-based nanoelectrospray combined with electron transfer dissociation for high throughput top-down proteomics. <i>Open Chemistry</i> , 2013, 11, 25-34.	1.9	7
44	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
45	Identification of an unusually sulfated tetrasaccharide chondroitin/dermatan motif in mouse brain by combining chip-based nanoelectrospray multistage MS <sup>2</sup> and high resolution MS <sup>4</sup> . <i>Electrophoresis</i> , 2013, 34, 1581-1592.	2.4	12
46	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
47	Profiling and sequencing of gangliosides from human caudate nucleus by chip-based nanoelectrospray mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1561-1570.	1.6	20
48	Chip-based nanoelectrospray quadrupole time-of-flight tandem mass spectrometry of meningioma gangliosides: A preliminary study. <i>Electrophoresis</i> , 2012, 33, 1778-1786.	2.4	26
49	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
50	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
51	Chip-based nanoelectrospray mass spectrometry of brain gangliosides. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 513-535.	2.4	21
52	Reprint of: Chip-based nanoelectrospray mass spectrometry of brain gangliosides. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 897-917.	2.4	6
53	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
54	Modern developments in mass spectrometry of chondroitin and dermatan sulfate glycosaminoglycans. <i>Amino Acids</i> , 2011, 41, 235-256.	2.7	44

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55	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
56	High-performance separation techniques hyphenated to mass spectrometry for ganglioside analysis. <i>Electrophoresis</i> , 2011, 32, 1591-1609.	2.4	44
57	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
58	Application of Chip-Based Nanoelectrospray 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
59	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
60	Top-down glycolipidomics: fragmentation analysis of ganglioside oligosaccharide core and ceramide moiety by chip-nanoelectrospray collision-induced dissociation MS <sup>2</sup> -MS <sup>6</sup> . <i>Journal of Mass Spectrometry</i> , 2009, 44, 1434-1442.	1.6	27
61	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
62	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
63	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
64	Fully automated chip-based negative mode nanoelectrospray 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
65	Synthesis and structural characterization of amino-functionalized polysaccharides. <i>Open Chemistry</i> , 2009, 7, 66-73.	1.9	7
66	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
67	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
68	Glycosylation analysis of glycoproteins and proteoglycans using capillary electrophoresis-mass spectrometry strategies. <i>Electrophoresis</i> , 2008, 29, 2485-2507.	2.4	87
69	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
70	Mapping and Sequencing of Gangliosides from Anencephaly by Electrospray Ionization High Capacity Ion Trap Mass Spectrometry. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2008, , 71-82.	0.5	2
71	Protein Carbohydrate Analysis. <i>Methods in Molecular Biology</i> , 2008, 441, 19-39.	0.9	6
72	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

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73	Galactosaminoglycan Function and Oligosaccharide Structure Determination. Scientific World Journal, The, 2007, 7, 233-241.	2.1	18
74	Recent advances in sheathless interfacing of capillary electrophoresis and electrospray ionization mass spectrometry. Journal of Chromatography A, 2007, 1159, 2-13.	3.7	80
75	Analysis of oversulfation in a chondroitin sulfate oligosaccharide fraction from bovine aorta by nanoelectrospray ionization quadrupole time-of-flight and fourier-transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2007, 18, 179-187.	2.8	20
76	A novel approach for ganglioside structural analysis based on electrospray multiple-stage mass spectrometry. Journal of Biomolecular Techniques, 2007, 18, 188-93.	1.5	15
77	Analysis of human hippocampus gangliosides by fully-automated chip-based nanoelectrospray tandem mass spectrometry. Journal of Chromatography A, 2006, 1130, 238-245.	3.7	49
78	Identification of a High-Affinity-Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Noncovalent Enzyme-Ligand Complex. Angewandte Chemie - International Edition, 2006, 45, 2429-2434.	13.8	36
79	Copper-coated microsyringe interface for on-line sheathless capillary electrophoresis electrospray mass spectrometry of carbohydrates. Journal of Separation Science, 2006, 29, 414-422.	2.5	39
80	Screening and sequencing of complex sialylated and sulfated glycosphingolipid mixtures by negative ion electrospray Fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 571-580.	2.8	56
81	Sheathless reverse-polarity capillary electrophoresis-electrospray-mass spectrometry for analysis of underivatized glycoconjugates. Electrophoresis, 2005, 26, 1488-1499.	2.4	32
82	Chip electrospray mass spectrometry for carbohydrate analysis. Electrophoresis, 2005, 26, 3650-3673.	2.4	56
83	Thin chip microsyringe system coupled to quadrupole time-of-flight mass spectrometer for glycoconjugate analysis. Lab on A Chip, 2005, 5, 298.	6.0	39
84	A thin chip microsyringe system coupled to Fourier transform ion cyclotron resonance mass spectrometry for glycopeptide screening. Rapid Communications in Mass Spectrometry, 2004, 18, 2913-2920.	1.5	32
85	Coupling of fully automated chip electrospray to Fourier transform ion cyclotron resonance mass spectrometry for high-performance glycoscreening and sequencing. Rapid Communications in Mass Spectrometry, 2004, 18, 3084-3092.	1.5	45
86	Capillary electrophoresis-mass spectrometry for glycoscreening in biomedical research. Electrophoresis, 2004, 25, 1949-1963.	2.4	123
87	On-line sheathless capillary electrophoresis/nanoelectrospray ionization-tandem mass spectrometry for the analysis of glycosaminoglycan oligosaccharides. Electrophoresis, 2004, 25, 2010-2016.	2.4	83
88	Off-line capillary electrophoresis/fully automated nanoelectrospray chip quadrupole time-of-flight mass spectrometry and tandem mass spectrometry for glycoconjugate analysis. Journal of Mass Spectrometry, 2004, 39, 1190-1201.	1.6	32
89	Fully-automated chip-based nanoelectrospray tandem mass spectrometry of gangliosides from human cerebellum. Journal of the American Society for Mass Spectrometry, 2004, 15, 1649-1657.	2.8	74
90	O,2An cross-ring cleavage as a general diagnostic tool for glycan assignment in glycoconjugate mixtures. Journal of the American Society for Mass Spectrometry, 2004, 15, 1863-1868.	2.8	33

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91	Fully Automated Chip-Based Mass Spectrometry for Complex Carbohydrate System Analysis. <i>Analytical Chemistry</i> , 2004, 76, 2046-2054.	6.5	70
92	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
93	Structural investigation of chondroitin/dermatan sulfate oligosaccharides from human skin fibroblast decorin. <i>Glycobiology</i> , 2003, 13, 733-742.	2.5	81
94	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
95	Characterization of peptides by capillary zone electrophoresis and electrospray ionization quadrupole time-of-flight tandem mass spectrometry. <i>Journal of Separation Science</i> , 2002, 25, 1101-1111.	2.5	7
96	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
97	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
98	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