

# Ron Orlando

## List of Publications by Year in descending order

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107  
papers

4,341  
citations

101543

36  
h-index

123424

61  
g-index

107  
all docs

107  
docs citations

107  
times ranked

4709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Galacturonosyltransferase (GAUT)1 and GAUT7 are the core of a plant cell wall pectin biosynthetic homogalacturonan:galacturonosyltransferase complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20225-20230.	7.1	183
2	A Heuristic Method for Assigning a False-discovery Rate for Protein Identifications from Mascot Database Search Results. Molecular and Cellular Proteomics, 2005, 4, 762-772.	3.8	180
3	Tools for Glycoproteomic Analysis: Size Exclusion Chromatography Facilitates Identification of Tryptic Glycopeptides with N-linked Glycosylation Sites. Journal of Proteome Research, 2006, 5, 701-708.	3.7	175
4	Tools for glycomics: relative quantitation of glycans by isotopic permethylation using <sup>13</sup> CH <sub>3</sub> I. Glycobiology, 2007, 17, 677-687.	2.5	146
5	Quantitation by Isobaric Labeling: Applications to Glycomics. Journal of Proteome Research, 2008, 7, 367-374.	3.7	146
6	The <i>Botrytis cinerea</i> early secretome. Proteomics, 2010, 10, 3020-3034.	2.2	141
7	The steady-state transcriptome of the four major life-cycle stages of <i>Trypanosoma cruzi</i> . BMC Genomics, 2009, 10, 370.	2.8	125
8	B-cell-independent sialylation of IgG. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7207-7212.	7.1	115
9	IDAWG: Metabolic Incorporation of Stable Isotope Labels for Quantitative Glycomics of Cultured Cells. Journal of Proteome Research, 2009, 8, 3816-3823.	3.7	108
10	Comparative Proteomic Analysis of <i>Botrytis cinerea</i> Secretome. Journal of Proteome Research, 2009, 8, 1123-1130.	3.7	104
11	The structures of arabinoxyloglucans produced by solanaceous plants. Carbohydrate Research, 1996, 285, 99-128.	2.3	103
12	Structural analysis of oligosaccharides by tandem mass spectrometry: Collisional activation of sodium adduct ions. Biological Mass Spectrometry, 1990, 19, 747-754.	0.5	102
13	Probe-Immobilized Affinity Chromatography/Mass Spectrometry. Analytical Chemistry, 1995, 67, 4581-4585.	6.5	92
14	A Desalting Approach for MALDI-MS Using On-Probe Hydrophobic Self-Assembled Monolayers. Analytical Chemistry, 1997, 69, 4716-4720.	6.5	86
15	Glycoproteomics of <i>Trypanosoma cruzi</i> Trypomastigotes Using Subcellular Fractionation, Lectin Affinity, and Stable Isotope Labeling. Journal of Proteome Research, 2006, 5, 3376-3384.	3.7	84
16	Proteomic Analysis of Ripening Tomato Fruit Infected by <i>Botrytis cinerea</i> . Journal of Proteome Research, 2012, 11, 2178-2192.	3.7	82
17	Proteomic analysis of cast cuticles from <i>Anopheles gambiae</i> by tandem mass spectrometry. Insect Biochemistry and Molecular Biology, 2007, 37, 135-146.	2.7	81
18	A proteomic study of pectin-degrading enzymes secreted by <i>Botrytis cinerea</i> grown in liquid culture. Proteomics, 2009, 9, 3126-3135.	2.2	81

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19	Proteomic Analysis of the Acidocalcisome, an Organelle Conserved from Bacteria to Human Cells. PLoS Pathogens, 2014, 10, e1004555.	4.7	77
20	Trifluoroacetic acid pretreatment reproducibly disaggregates the amyloid Î²-peptide. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 1997, 4, 240-252.	3.0	69
21	Identification of Contractile Vacuole Proteins in Trypanosoma cruzi. PLoS ONE, 2011, 6, e18013.	2.5	69
22	Differentiating ?- and ?-aspartic acids by electrospray ionization and low-energy tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 2092-2102.	1.5	67
23	Quantifying protein interface footprinting by hydroxyl radical oxidation and molecular dynamics simulation: Application to galectin-1. Journal of the American Society for Mass Spectrometry, 2008, 19, 1692-1705.	2.8	65
24	Up-regulation of NG2 proteoglycan and interferon-induced transmembrane proteins 1 and 3 in mouse astrocytoma: A membrane proteomics approach. Cancer Letters, 2008, 263, 243-252.	7.2	62
25	Liquid Chromatography-Selected Reaction Monitoring (LC-SRM) Approach for the Separation and Quantitation of Sialylated N-Glycans Linkage Isomers. Analytical Chemistry, 2014, 86, 10584-10590.	6.5	59
26	A New Matrix for Matrix-assisted Laser Desorption/Ionization on Magnetic Sector Instruments with Point Detectors. Rapid Communications in Mass Spectrometry, 1996, 10, 923-926.	1.5	58
27	Resolving Isomeric Glycopeptide Glycoforms with Hydrophilic Interaction Chromatography (HILIC). Journal of Biomolecular Techniques, 2016, 27, 98-104.	1.5	56
28	A potential pitfall in 18O-based N-linked glycosylation site mapping. Rapid Communications in Mass Spectrometry, 2007, 21, 674-682.	1.5	53
29	Glycoproteomic Analysis of Embryonic Stem Cells: Identification of Potential Glycobiomarkers Using Lectin Affinity Chromatography of Glycopeptides. Journal of Proteome Research, 2010, 9, 2062-2075.	3.7	53
30	Loss of Arabidopsis GAUT12/IRX8 causes anther indehiscence and leads to reduced G lignin associated with altered matrix polysaccharide deposition. Frontiers in Plant Science, 2014, 5, 357.	3.6	50
31	On-Probe Solid-Phase Extraction/MALDI-MS Using Ion-Pairing Interactions for the Cleanup of Peptides and Proteins. Analytical Chemistry, 1998, 70, 3757-3761.	6.5	49
32	Biosynthesis of 4-Thiouridine in tRNA in the Methanogenic Archaeon Methanococcus maripaludis*. Journal of Biological Chemistry, 2012, 287, 36683-36692.	3.4	48
33	On-Target Exoglycosidase Digestions/MALDI-MS for Determining the Primary Structures of Carbohydrate Chains. Analytical Chemistry, 1999, 71, 1479-1482.	6.5	47
34	Use of Amide Exchange Mass Spectrometry To Study Conformational Changes within the Endopolygalacturonase II~Homogalacturonan~Polygalacturonase Inhibiting Protein System. Biochemistry, 2002, 41, 10225-10233.	2.5	44
35	New Immobilization Chemistry for Probe Affinity Mass Spectrometry. , 1996, 10, 1688-1692.		42
36	Quantification by isobaric labeling (QUIBL) for the comparative glycomic study of O-linked glycans. International Journal of Mass Spectrometry, 2008, 278, 137-142.	1.5	38

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37	Selective reagents in chemical ionization mass spectrometry: Tetramethylsilane with aliphatic alcohols. <i>Organic Mass Spectrometry</i> , 1987, 22, 597-605.	1.3	36
38	Solid-Phase Extraction/MALDI-MS: Extended Ion-Pairing Surfaces for the On-Target Cleanup of Protein Samples. <i>Analytical Chemistry</i> , 1999, 71, 4753-4757.	6.5	36
39	Proteins Associated with the <i>Myxococcus xanthus</i> Extracellular Matrix. <i>Journal of Bacteriology</i> , 2007, 189, 7634-7642.	2.2	36
40	The Use of Ammonium Formate as a Mobile-Phase Modifier for LC-MS/MS Analysis of Tryptic Digests. <i>Journal of Biomolecular Techniques</i> , 2013, 24, 187-197.	1.5	36
41	Simplifying the Exoglycosidase Digestion/MALDI-MS Procedures for Sequencing N-Linked Carbohydrate Side Chains. <i>Analytical Chemistry</i> , 1996, 68, 570-572.	6.5	35
42	Distribution of cuticular proteins in different structures of adult <i>Anopheles gambiae</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 75, 45-57.	2.7	31
43	Identification of the glycosylation site and glycan structures of recombinant endopolygalacturonase II by mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1257-1262.	1.5	29
44	Endothermic ion-molecule reactions: strategies for tandem mass spectrometric structural analyses of large biomolecules. <i>Analytical Chemistry</i> , 1990, 62, 125-129.	6.5	27
45	Tandem mass spectrometric analysis of <i>Aspergillus niger</i> pectin methylesterase: mode of action on fully methyl-esterified oligogalacturonates. <i>Biochemical Journal</i> , 2000, 346, 469-474.	3.7	27
46	Optimization of a hydrophobic solid-phase extraction interface for matrix-assisted laser desorption/ionization. <i>Journal of Mass Spectrometry</i> , 1998, 33, 1141-1147.	1.6	26
47	GAG-ID: Heparan Sulfate (HS) and Heparin Glycosaminoglycan High-Throughput Identification Software*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1720-1730.	3.8	26
48	Trimethylsilyl ions for selective detection of oxygenated compounds in gasoline by gas chromatography/chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , 1986, 58, 2788-2791.	6.5	25
49	Endothermic ion molecule reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 189-197.	2.8	25
50	Identifying the Glycosylation Sites and Site-specific Carbohydrate Heterogeneity of Glycoproteins by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 932-936.	1.5	25
51	Identification and Localization of <i>Myxococcus xanthus</i> Porins and Lipoproteins. <i>PLoS ONE</i> , 2011, 6, e27475.	2.5	25
52	Selective reagents in chemical ionization mass spectrometry: Tetramethylsilane with ethers. <i>Organic Mass Spectrometry</i> , 1988, 23, 527-534.	1.3	23
53	Comprehensive glycan analysis of recombinant <i>Aspergillus niger</i> endo-polygalacturonase C. <i>Analytical Biochemistry</i> , 2006, 354, 43-53.	2.4	23
54	Reliable LC-MS quantitative glycomics using iGlycoMab stable isotope labeled glycans as internal standards. <i>Electrophoresis</i> , 2016, 37, 1489-1497.	2.4	23

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55	Compensated Hydroxyl Radical Protein Footprinting Measures Buffer and Excipient Effects on Conformation and Aggregation in an Adalimumab Biosimilar. <i>AAPS Journal</i> , 2019, 21, 87.	4.4	23
56	Flash Oxidation (FOX) System: A Novel Laser-Free Fast Photochemical Oxidation Protein Footprinting Platform. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1601-1609.	2.8	23
57	Studies on the glycosylation of wild-type and mutant forms of <i>Aspergillus niger</i> pectin methylesterase. <i>Carbohydrate Research</i> , 2002, 337, 803-812.	2.3	22
58	Endothermic ion molecule reactions: II. Reactions between peptides with and without basic residues and ammonia. <i>Organic Mass Spectrometry</i> , 1989, 24, 1033-1042.	1.3	21
59	Covalent modification of Alzheimer's amyloid $\beta$ -peptide in formic acid solutions. <i>Biochemical and Biophysical Research Communications</i> , 1992, 184, 686-691.	2.1	21
60	Proteome Analysis of Cry4Ba Toxin-interacting <i>Aedes aegypti</i> Lipid Rafts using gelLC-MS/MS. <i>Journal of Proteome Research</i> , 2012, 11, 5843-5855.	3.7	21
61	Analysis of peptides contaminated with alkali-metal salts by fast atom bombardment mass spectrometry using crown ethers. <i>Analytical Chemistry</i> , 1992, 64, 332-334.	6.5	20
62	Trypsin is the primary mechanism by which the $^{18}\text{O}$ isotopic label is lost in quantitative proteomic studies. <i>Analytical Biochemistry</i> , 2006, 359, 26-34.	2.4	20
63	Location of unsaturated positions in phosphatidyl cholines by consecutive-reaction monitoring. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 124-127.	1.5	19
64	Structure of a muramic acid containing capsular polysaccharide from the pathogenic strain of <i>Vibrio vulnificus</i> ATCC 27562. <i>Carbohydrate Research</i> , 1998, 309, 65-76.	2.3	19
65	The Separation and Quantitation of Peptides with and without Oxidation of Methionine and Deamidation of Asparagine Using Hydrophilic Interaction Liquid Chromatography with Mass Spectrometry (HILIC-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 818-826.	2.8	19
66	Simple modification of a protein database for mass spectral identification of N-linked glycopeptides. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3002-3006.	1.5	18
67	Quantitative Glycomics. <i>Methods in Molecular Biology</i> , 2010, 600, 31-49.	0.9	17
68	Membrane proteomic signatures of karyotypically normal and abnormal human embryonic stem cell lines and derivatives. <i>Proteomics</i> , 2011, 11, 2515-2527.	2.2	17
69	A New Strategy for MALDI on Magnetic Sector Mass Spectrometers with Point Detectors. <i>Analytical Chemistry</i> , 1997, 69, 327-332.	6.5	16
70	Characterization of the N-linked glycosylation site of recombinant pectate lyase. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 2382-2387.	1.5	16
71	Catalytic Mechanism of Sep-tRNA:Cys-tRNA Synthase. <i>Journal of Biological Chemistry</i> , 2012, 287, 5426-5433.	3.4	16
72	Optimization of Data-Dependent Acquisition Parameters for Coupling High-Speed Separations with LC-MS/MS for Protein Identifications. <i>Journal of Biomolecular Techniques</i> , 2013, 24, jbt.13-2402-003.	1.5	16

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73	Tandem mass spectrometric analysis of peptides at the femtomole level. <i>Analytical Chemistry</i> , 1992, 64, 957-960.	6.5	15
74	A new liquid chromatography/tandem mass spectrometric approach for the identification of class I major histocompatibility complex associated peptides that eliminates the need for bioassays. , 1999, 13, 1024-1030.		15
75	Characterization of the glycosylation of recombinant Endopolygalacturonase I from <i>Aspergillus niger</i> . <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 1448-1453.	1.5	15
76	Quantitative Analysis of Glycoprotein Glycans. <i>Methods in Molecular Biology</i> , 2013, 951, 197-215.	0.9	15
77	Proteomics reveals localization of cuticular proteins in <i>Anopheles gambiae</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2019, 104, 91-105.	2.7	15
78	Complete sequence confirmation of large peptides by high energy collisional activation of multiply protonated ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 234-241.	2.8	14
79	Fourier transform mass spectrometry to monitor hyaluronan-protein interactions: use of hydrogen/deuterium amide exchange. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 121-131.	1.5	14
80	Endothermic ion/molecule reactions III. High energy collisional activation at low kinetic energies. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 259-262.	1.5	13
81	Endothermic ion-molecule reactions. 4. Site-directed fragmentation in N-acetylated oligosaccharides at low beam energies. <i>Analytical Chemistry</i> , 1990, 62, 2388-2390.	6.5	13
82	Detection of fragment ions produced by collisional activation of multiply charged ions in a floated collision cell. <i>Organic Mass Spectrometry</i> , 1992, 27, 151-155.	1.3	13
83	Studying protein-carbohydrate interactions by amide hydrogen/deuterium exchange mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1569-1574.	1.5	13
84	Properties of the cuticular proteins of <i>Anopheles gambiae</i> as revealed by serial extraction of adults. <i>PLoS ONE</i> , 2017, 12, e0175423.	2.5	13
85	The ion chemistry and thermochemistry of several trimethylsilyl compounds. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 92, 93-109.	1.8	12
86	Endothermic ion-molecule reactions: V. Remote-site fragmentation at very low kinetic energies. <i>Organic Mass Spectrometry</i> , 1990, 25, 485-489.	1.3	12
87	Glycan analysis of recombinant <i>Aspergillus niger</i> endo-polygalacturonase A. <i>Carbohydrate Research</i> , 2006, 341, 2370-2378.	2.3	12
88	Predicting the Retention Behavior of Specific O-Linked Glycopeptides. <i>Journal of Biomolecular Techniques</i> , 2017, 28, 122-126.	1.5	12
89	Charge changing reactions in a four-sector tandem mass spectrometer with a floated collision cell. <i>Organic Mass Spectrometry</i> , 1991, 26, 664-666.	1.3	11
90	Analysis of normal human fetal eye lens crystallins by high-performance liquid chromatography/mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1995, 30, 424-431.	1.6	11

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91	On-target endoglycosidase digestion matrix-assisted laser desorption/ionization mass spectrometry of glycopeptides. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2284-2289.	1.5	11
92	A Novel Method for Relative Quantitation of N-Glycans by Isotopic Labeling Using 18O-Water. <i>Journal of Biomolecular Techniques</i> , 2014, 25, jbt.14-2504-003.	1.5	11
93	Peptide retention prediction using hydrophilic interaction liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1537, 58-65.	3.7	11
94	Radiative stabilization of trimethylsilyl adduct ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1990, 1, 144-148.	2.8	10
95	Structures and biosynthesis of the N- and O-glycans of recombinant human oviduct-specific glycoprotein expressed in human embryonic kidney cells. <i>Carbohydrate Research</i> , 2012, 358, 47-55.	2.3	10
96	Sequencing membrane proteins by tandem mass spectrometry. <i>Organic Mass Spectrometry</i> , 1993, 28, 1395-1402.	1.3	9
97	A Multivariate Mixture Model to Estimate the Accuracy of Glycosaminoglycan Identifications Made by Tandem Mass Spectrometry (MS/MS) and Database Search. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 255-264.	3.8	9
98	Identification of in vivo released products of <i>Onchocerca</i> with diagnostic potential, and characterization of a dominant member, the OV1CF intermediate filament. <i>Infection, Genetics and Evolution</i> , 2011, 11, 778-783.	2.3	7
99	Predicting the HILIC Retention Behavior of the N-Linked Glycopeptides Produced by Trypsin Digestion of Immunoglobulin Gs (IgGs). <i>Journal of Biomolecular Techniques</i> , 2018, 29, 98-104.	1.5	7
100	Fast atom bombardment mass spectrometry of carbohydrates contaminated with inorganic salts using a crown ether. , 1998, 33, 680-682.		6
101	Post-translational modifications of recombinant <i>B. cinerea</i> EPG 6. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3389-3397.	1.5	6
102	Endothermic ion/molecule reactions Part VI. Reaction-induced dissociation of peptides containing basic residues using dimethyl- and trimethylamine. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 111, 27-40.	1.8	2
103	Is canine hepatocerebellar degeneration syndrome an animal model for carbohydrate-deficient glycoprotein syndrome in humans? An example of sequencing glycoprotein glycans with mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 571-579.	1.5	2
104	Synthesis of the plant cell wall's most complex glycan: pectin -surprises in glycosyltransferase processing and anchoring in the Golgi. <i>FASEB Journal</i> , 2012, 26, 349.3.	0.5	2
105	A New Matrix for Matrix-Assisted Laser Desorption/Ionization on Magnetic Sector Instruments with Point Detectors. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 923-926.	1.5	1
106	Reducing Interferences in Glycosylation Site Mapping. <i>Journal of Biomolecular Techniques</i> , 2022, 33, 3fc1f5fe.7b3a077d.	1.5	1
107	Proteomics of Magnaporthe Grisea: Liquid Chromatography Mass Spectrometry for the Identification of Extracellular Proteins. , 2004, , 39-46.		0