

Carlos Afonso

List of Publications by Year in descending order

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185
papers

4,653
citations

136885

32
h-index

133188

59
g-index

194
all docs

194
docs citations

194
times ranked

5653
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of an anti-inflammatory protein from <i>Faecalibacterium prausnitzii</i> , a commensal bacterium deficient in Crohn's disease. <i>Gut</i> , 2016, 65, 415-425.	6.1	585
2	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	2.8	315
3	Dissection of Proteolytic ¹⁸ O Labeling: An Endoprotease-Catalyzed ¹⁶ O-to- ¹⁸ O Exchange of Truncated Peptide Substrates. <i>Journal of Proteome Research</i> , 2003, 2, 147-152.	1.8	199
4	Siderophore Peptide, a New Type of Post-translationally Modified Antibacterial Peptide with Potent Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 28233-28242.	1.6	138
5	Omics-Based Strategies in Precision Medicine: Toward a Paradigm Shift in Inborn Errors of Metabolism Investigations. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1555.	1.8	135
6	Clinical Metabolomics: The New Metabolic Window for Inborn Errors of Metabolism Investigations in the Post-Genomic Era. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1167.	1.8	92
7	Increased Lewis Acidity in Hafnium-Substituted Polyoxotungstates. <i>Chemistry - A European Journal</i> , 2007, 13, 5426-5432.	1.7	76
8	Proton Affinities of the Commonly Occurring L-Amino Acids by Using Electrospray Ionization-Ion Trap Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2000, 6, 443-449.	0.5	75
9	Enantiomeric differentiation of aromatic amino acids using traveling wave ion mobility-mass spectrometry. <i>Chemical Science</i> , 2014, 5, 3234-3239.	3.7	75
10	Production and Reactions of Organic-Soluble Lanthanide Complexes of the Monolacunary Dawson [±1-P2W17O61]10-Polyoxotungstate. <i>Inorganic Chemistry</i> , 2006, 45, 1389-1398.	1.9	74
11	Structure of Thermolysin Cleaved Microcin J25: Extreme Stability of a Two-Chain Antimicrobial Peptide Devoid of Covalent Links. <i>Biochemistry</i> , 2004, 43, 4696-4702.	1.2	70
12	Functionalization of Polyoxometalates: From Lindqvist to Keggin Derivatives. 1. Synthesis, Solution Studies, and Spectroscopic and ESI Mass Spectrometry Characterization of the Rhenium Phenylimido Tungstophosphate [PW11O39{ReNC6H5}4]. <i>Inorganic Chemistry</i> , 2004, 43, 3514-3520.	1.9	68
13	Hybrid Polyoxometalates: Keggin and Dawson Silyl Derivatives as Versatile Platforms. <i>Journal of Organic Chemistry</i> , 2011, 76, 3107-3112.	1.7	66
14	Elegant Approach to the Synthesis of a Unique Heteroleptic Cyclometalated Iridium(III)-Polyoxometalate Conjugate. <i>Organometallics</i> , 2012, 31, 35-38.	1.1	66
15	Characterization of the ceramide moieties of sphingoglycolipids from mouse brain by ESI-MS/MS. <i>Journal of Lipid Research</i> , 2004, 45, 281-286.	2.0	63
16	Straightforward synthesis of new polyoxometalate-based hybrids exemplified by the covalent bonding of a polypyridyl ligand. <i>Chemical Communications</i> , 2009, , 6062.	2.2	59
17	Atmospheric Solid Analysis Probe Ion Mobility Mass Spectrometry of Polypropylene. <i>Analytical Chemistry</i> , 2012, 84, 9349-9354.	3.2	57
18	Comparison of Atmospheric Pressure Ionization for the Analysis of Heavy Petroleum Fractions with Ion Mobility-Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 8896-8903.	2.5	56

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19	Structural characterization of fatty acids cationized with copper by electrospray ionization mass spectrometry under low-energy collision-induced dissociation. <i>Journal of Mass Spectrometry</i> , 2005, 40, 342-349.	0.7	50
20	Ion Mobility–Mass Spectrometry of Lasso Peptides: Signature of a Rotaxane Topology. <i>Analytical Chemistry</i> , 2015, 87, 1166-1172.	3.2	48
21	Heterologous expression of the N-acetylglucosaminyltransferase I dictates a reinvestigation of the N-glycosylation pathway in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2017, 7, 10156.	1.6	47
22	Formation and Characterization of Gaseous Adducts of Carbon Dioxide to Magnesium, (CO ₂)MgX ⁺ (X=OH, Cl, Br). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6938-6941.	7.2	46
23	Role of Cationization and Multimers Formation for Diastereomers Differentiation by Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1437-1445.	1.2	46
24	Functionally different pools of Shiga toxin receptor, globotriaosyl ceramide, in HeLa cells. <i>FEBS Journal</i> , 2006, 273, 5205-5218.	2.2	43
25	Structural analysis of heavy oil fractions after hydrodenitrogenation by high-resolution tandem mass spectrometry and ion mobility spectrometry. <i>Faraday Discussions</i> , 2019, 218, 417-430.	1.6	43
26	Rapid microorganism identification with on-slide proteolytic digestion followed by matrix-assisted laser desorption/ionization tandem mass spectrometry and database searching. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1953-1956.	0.7	42
27	Use of Bioactive Glass Slides for Matrix-Assisted Laser Desorption/Ionization Analysis: Application to Microorganisms. <i>Analytical Chemistry</i> , 2003, 75, 694-697.	3.2	40
28	Topoisomer Differentiation of Molecular Knots by FTICR MS: Lessons from Class II Lasso Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 467-479.	1.2	38
29	Comparison of soluble and insoluble organic matter in analogues of Titan's aerosols. <i>Earth and Planetary Science Letters</i> , 2018, 495, 185-191.	1.8	38
30	Comprehensive Petroporphyrin Identification in Crude Oils Using Highly Selective Electron Transfer Reactions in MALDI-FTICR-MS. <i>Energy & Fuels</i> , 2019, 33, 3899-3907.	2.5	38
31	Multiple xylosyltransferases heterogeneously xylosylate protein N-linked glycans in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2020, 102, 230-245.	2.8	37
32	Molecular Fingerprints and Speciation of Crude Oils and Heavy Fractions Revealed by Molecular and Elemental Mass Spectrometry: Keystone between Petroleomics, Metallopetroleomics, and Petrointeractomics. <i>Energy & Fuels</i> , 2018, 32, 4593-4605.	2.5	36
33	Cyclopropane ring formation by an SmI ₂ mediated cyclisation of α -halo- β -unsaturated esters. <i>Tetrahedron Letters</i> , 1999, 40, 8557-8561.	0.7	33
34	Gas-Phase Ionization/Desolvation Processes and Their Effect on Protein Charge State Distribution under Matrix-Assisted Laser Desorption/Ionization Conditions. <i>European Journal of Mass Spectrometry</i> , 2006, 12, 369-383.	0.5	32
35	Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 77-92.	0.7	31
36	Lipopolysaccharide mediated regulation of neuroendocrine associated proprotein convertases and neuropeptide precursor processing in the rat spleen. <i>Journal of Neuroimmunology</i> , 2006, 171, 57-71.	1.1	31

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37	Photochemical Activation of an Azido Manganese-Monosubstituted Keggin Polyoxometalate: On the Road to a Mn(V) η^5 -Nitrido Derivative. <i>Inorganic Chemistry</i> , 2009, 48, 11865-11870.	1.9	31
38	An orthogonal system for heterologous expression of actinobacterial lasso peptides in <i>Streptomyces</i> hosts. <i>Scientific Reports</i> , 2018, 8, 8232.	1.6	30
39	Rapid analysis of lubricants by atmospheric solid analysis probe α -ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 709-715.	0.7	29
40	Effective Ion Mobility Peak Width as a New Isomeric Descriptor for the Untargeted Analysis of Complex Mixtures Using Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2476-2482.	1.2	29
41	Advances in metabolome information retrieval: turning chemistry into biology. Part I: analytical chemistry of the metabolome. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 379-391.	1.7	29
42	Rapid analysis of polyester and polyethylene blends by ion mobility-mass spectrometry. <i>Polymer Chemistry</i> , 2014, 5, 3576-3582.	1.9	28
43	Can Cluster Structure Affect Kinetic Method Measurements? The Curious Case of Glutamic Acid's Gas-Phase Acidity. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1887-1896.	1.2	27
44	General rules of fragmentation evidencing lasso structures in CID and ETD. <i>Analyst</i> , 2018, 143, 1157-1170.	1.7	27
45	Proton affinity of proline and modified prolines using the kinetic method: role of the conformation investigated by ab initio calculations. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1626-1632.	0.7	26
46	Stereochemical effects from doubly-charged iron clusters for the structural elucidation of diastereomeric monosaccharides using ESI/IT-MS. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 559-575.	0.7	25
47	Optimization of a liquid chromatography ion mobility-mass spectrometry method for untargeted metabolomics using experimental design and multivariate data analysis. <i>Analytica Chimica Acta</i> , 2016, 913, 55-62.	2.6	25
48	Exploring Complex Mixtures by Cyclic Ion Mobility High-Resolution Mass Spectrometry: Application Toward Petroleum. <i>Analytical Chemistry</i> , 2021, 93, 5872-5881.	3.2	25
49	Identification and separation of saxitoxins using hydrophilic interaction liquid chromatography coupled to traveling wave ion mobility-mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 175-181.	0.7	24
50	Advances and Challenges in the Molecular Characterization of Petroporphyrins. <i>Energy & Fuels</i> , 2021, 35, 18056-18077.	2.5	23
51	Qualitative characterization of biomolecular zinc complexes by collisionally induced dissociation. <i>Journal of Mass Spectrometry</i> , 2002, 37, 755-759.	0.7	22
52	Diastereomeric differentiation of peptides with CuII and FeII complexation in an ion trap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2006, 41, 1073-1085.	0.7	22
53	Use of transition metals to improve the diastereomers differentiation by ion mobility and mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 423-427.	0.7	22
54	Characterization of Heavy Products from Lignocellulosic Biomass Pyrolysis by Chromatography and Fourier Transform Mass Spectrometry: A Review. <i>Energy & Fuels</i> , 2021, 35, 17979-18007.	2.5	22

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55	Desiccation tolerance in plants: Structural characterization of the cell wall hemicellulosic polysaccharides in three <i>Selaginella</i> species. <i>Carbohydrate Polymers</i> , 2019, 208, 180-190.	5.1	21
56	Determination of Peptide Topology through Time-Resolved Double-Resonance under Electron Capture Dissociation Conditions. <i>Analytical Chemistry</i> , 2012, 84, 4957-4964.	3.2	20
57	Identification of Ion Series Using Ion Mobility Mass Spectrometry: The Example of Alkyl-Benzothiophene and Alkyl-Dibenzothiophene Ions in Diesel Fuels. <i>Analytical Chemistry</i> , 2013, 85, 5530-5534.	3.2	20
58	Metal-Directed Self-Assembly of a Polyoxometalate-Based Molecular Triangle: Using Powerful Analytical Tools to Probe the Chemical Structure of Complex Supramolecular Assemblies. <i>Chemistry - A European Journal</i> , 2015, 21, 19010-19015.	1.7	19
59	Urinary metabolic phenotyping of mucopolysaccharidosis type I combining untargeted and targeted strategies with data modeling. <i>Clinica Chimica Acta</i> , 2017, 475, 7-14.	0.5	19
60	Charge Effect on the Formation of Polyoxometalate-Based Supramolecular Polygons Driven by Metal Coordination. <i>Inorganic Chemistry</i> , 2017, 56, 8490-8496.	1.9	19
61	Unveiling metabolic remodeling in mucopolysaccharidosis type III through integrative metabolomics and pathway analysis. <i>Journal of Translational Medicine</i> , 2018, 16, 248.	1.8	19
62	Muscle metabolic remodelling patterns in Duchenne muscular dystrophy revealed by ultra-high-resolution mass spectrometry imaging. <i>Scientific Reports</i> , 2021, 11, 1906.	1.6	19
63	Unprecedented Molecular Diversity Revealed in Meteoritic Insoluble Organic Matter: The Paris Meteorite's Case. <i>Planetary Science Journal</i> , 2020, 1, 55.	1.5	19
64	Negative-charge driven fragmentations for evidencing zwitterionic forms from doubly charged coppered peptides. <i>Journal of Mass Spectrometry</i> , 2007, 42, 25-35.	0.7	18
65	Synthetic sulfogalactosylceramide (sulfatide) and its use for the mass spectrometric quantitative urinary determination in metachromatic leukodystrophies. <i>Glycoconjugate Journal</i> , 2008, 25, 147-155.	1.4	18
66	Analysis of Mucopolysaccharidosis Type VI through Integrative Functional Metabolomics. <i>International Journal of Molecular Sciences</i> , 2019, 20, 446.	1.8	18
67	Chromium Determination in Leather and Other Matrices: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 1537-1556.	1.8	18
68	Gas-phase doubly charged complexes of cyclic peptides with copper in +1, +2 and +3 formal oxidation states: formation, structures and electron capture dissociation. <i>Journal of Mass Spectrometry</i> , 2012, 47, 208-220.	0.7	17
69	Signatures of Mechanically Interlocked Topology of Lasso Peptides by Ion Mobility-Mass Spectrometry: Lessons from a Collection of Representatives. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 315-322.	1.2	17
70	Evidence for zinc ion sharing in metallothionein dimers provided by collision-induced dissociation. <i>International Journal of Mass Spectrometry</i> , 2004, 231, 207-211.	0.7	16
71	Anionic copper complex fragmentations from enkephalins under low-energy collision-induced dissociation in an ion trap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2004, 39, 903-912.	0.7	16
72	Improved proton affinity measurements for proline and modified prolines using triple quadrupole and ion trap mass spectrometers. <i>Journal of Mass Spectrometry</i> , 2005, 40, 1300-1308.	0.7	16

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73	Synthetic sulfated glucuronosyl paragloboside (SGPG) and its use for the detection of autoimmune peripheral neuropathies. <i>Tetrahedron</i> , 2006, 62, 563-577.	1.0	16
74	Investigation of double-stranded DNA/drug interaction by ESI/FT ICR: orientation of dissociations relates to stabilizing salt bridges. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1531-1544.	0.7	16
75	Stereochemical effects during $[M-H]^+$ dissociations of epimeric 11-OH-17 β -estradiols and distant electronic effects of substituents at C(11) position on gas phase acidity. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2318-2333.	1.2	16
76	Critical Evaluation of Kinetic Method Measurements: Possible Origins of Nonlinear Effects. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 365-380.	1.2	16
77	Characterization of Polyolefin Pyrolysis Species Produced Under Ambient Conditions by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 507-514.	1.2	16
78	Advances in metabolome information retrieval: turning chemistry into biology. Part II: biological information recovery. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 393-406.	1.7	16
79	Traveling Wave Ion Mobility Mass Spectrometry and Ab Initio Calculations of Phosphoric Acid Clusters. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 572-580.	1.2	15
80	Atmospheric Solid Analysis Probe-Ion Mobility Mass Spectrometry: An Original Approach to Characterize Grafting on Cyclic Olefin Copolymer Surfaces. <i>Langmuir</i> , 2015, 31, 13138-13144.	1.6	15
81	IRMPD Spectroscopy: Evidence of Hydrogen Bonding in the Gas Phase Conformations of Lasso Peptides and their Branched-Cyclic Topoisomers. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3810-3816.	1.1	15
82	User-friendly extraction and multistage tandem mass spectrometry based analysis of lipid-linked oligosaccharides in microalgae. <i>Plant Methods</i> , 2018, 14, 107.	1.9	15
83	Direct Inlet Probe Atmospheric Pressure Photo and Chemical Ionization Coupled to Ultrahigh Resolution Mass Spectrometry for the Description of Lignocellulosic Biomass. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 822-831.	1.2	15
84	Sulfogalactosylceramides in motor and psycho-cognitive adult metachromatic leukodystrophy: relations between clinical, biochemical analysis and molecular aspects. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 434-440.	1.1	14
85	Direct TLC/MALDI-MS coupling for modified polyamidoamine dendrimers analyses. <i>Analytica Chimica Acta</i> , 2014, 808, 144-150.	2.6	14
86	Evaluation of atmospheric solid analysis probe ionization coupled to ion mobility mass spectrometry for characterization of poly(ether ether ketone) polymers. <i>Analytica Chimica Acta</i> , 2015, 856, 46-53.	2.6	14
87	A new optimization strategy for MALDI FTICR MS tissue analysis for untargeted metabolomics using experimental design and data modeling. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3891-3903.	1.9	14
88	Membrane phospholipid composition of <i>Pseudomonas aeruginosa</i> grown in a cystic fibrosis mucus-mimicking medium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183482.	1.4	14
89	Activated Surfaces for Laser Desorption Mass Spectrometry: Application for Peptide and Protein Analysis. <i>Current Pharmaceutical Design</i> , 2005, 11, 2559-2576.	0.9	13
90	Concomitant EDD and EID of DNA evidenced by MSn and double resonance experiments. <i>International Journal of Mass Spectrometry</i> , 2011, 301, 224-233.	0.7	13

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91	Readily functionalizable phosphonium-tagged fluorescent coumarins for enhanced detection of conjugates by mass spectrometry. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7777-7791.	1.5	13
92	High-resolution mass spectrometry for future space missions: Comparative analysis of complex organic matter with LAb-CECosmOrbitrap and laser desorption/ionization Fourier transform ion cyclotron resonance. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8645.	0.7	13
93	Investigation of the reactivity of arylamines, organo-hydrazines and tolylisocyanate towards [PW12O ₄₀] ³⁻ Keggin anions. <i>Dalton Transactions</i> , 2005, , 1831.	1.6	12
94	Atmospheric solid analysis probe mass spectrometry vs electrospray tandem mass spectrometry of polydimethylsiloxanes in positive and negative ionization modes. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 982-986.	0.7	12
95	Thiol-ene chemistry of vegetable oils and their derivatives under UV and air: a model study by using infrared spectroscopy and mass spectrometry. <i>RSC Advances</i> , 2017, 7, 3343-3352.	1.7	12
96	Structural Study of Analogues of Titan™s Haze by Trapped Ion Mobility Coupled with a Fourier Transform Ion Cyclotron Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1169-1173.	1.2	12
97	Charge dependent behavior of PNA/DNA/PNA triplexes in the gas phase. <i>Journal of Mass Spectrometry</i> , 2006, 41, 1498-1508.	0.7	11
98	Structural characterization of arabinoxylans from two African plant species <i>Eragrostis nindensis</i> and <i>Eragrostis tef</i> using various mass spectrometric methods. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 908-916.	0.7	11
99	Gas-phase conformations of capistruin – comparison of lasso, branched-cyclic and linear topologies. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1411-1419.	0.7	11
100	Toward a Rational Design of Highly Folded Peptide Cation Conformations. 3D Gas-Phase Ion Structures and Ion Mobility Characterization. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1647-1660.	1.2	11
101	Where Does the Electron Go? Stable and Metastable Peptide Cation Radicals Formed by Electron Transfer. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 164-181.	1.2	11
102	Characterization of polyalphaolefins using halogen anion attachment in atmospheric pressure photoionization coupled with ion mobility spectrometry-mass spectrometry. <i>Analyst, The</i> , 2018, 143, 3934-3940.	1.7	11
103	A calibration framework for the determination of accurate collision cross sections of polyanions using polyoxometalate standards. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1703-1710.	0.7	11
104	Atmospheric Solid Analysis Probe Coupled to Ion Mobility Spectrometry-Mass Spectrometry, a Fast and Simple Method for Polyalphaolefin Characterization. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1678-1687.	1.2	11
105	Structural analysis of petroporphyrins from asphaltene by trapped ion mobility coupled with Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst, The</i> , 2021, 146, 4161-4171.	1.7	11
106	Imaging Titan™s Organic Haze at Atomic Scale. <i>Astrophysical Journal Letters</i> , 2021, 908, L13.	3.0	11
107	Non-covalent complexes between bis- ¹² -carbolines and double-stranded DNA: A study by electrospray ionization FT-ICR mass spectrometry (I). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 2549-2553.	1.0	10
108	Calmodulin association with the synthetic ER ^{17p} peptide investigated by mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 305, 87-94.	0.7	10

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109	Comparison of collision-induced dissociation and electron-induced dissociation of singly charged mononucleotides. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 140-146.	0.7	10
110	Vacuum Ultraviolet Photoionization Study of Gas Phase Vitamins A and B1 Using Aerosol Thermodesorption and Synchrotron Radiation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11185-11192.	1.1	10
111	A Unique (3+2) Annulation Reaction between Meldrum's Acid and Nitrones: Mechanistic Insight by ESI-IMS-MS and DFT Studies. <i>Chemistry - A European Journal</i> , 2018, 24, 4086-4093.	1.7	10
112	Structural Analysis of Neutral Nitrogen Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by High-Resolution Tandem Mass Spectrometry and Ion Mobility-Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 9328-9338.	2.5	10
113	Study of Biocrudes Obtained via Hydrothermal Liquefaction (HTL) of Wild Alga Consortium under Different Conditions. <i>Processes</i> , 2021, 9, 1494.	1.3	10
114	Development of a standardized in vitro approach to evaluate microphysical, chemical, and toxicological properties of combustion-derived fine and ultrafine particles. <i>Journal of Environmental Sciences</i> , 2022, 113, 104-117.	3.2	10
115	Diastereomers to enantiomers distinction from deprotonated cationized heterodimers produced by electrospray ionization/ion-trap mass spectrometer. <i>Comptes Rendus Chimie</i> , 2003, 6, 623-629.	0.2	9
116	Optimization of ion trajectories in a dynamically harmonized Fourier transform ion cyclotron resonance cell using a design of experiments strategy. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8659.	0.7	9
117	Identification of N-glycan oligomannoside isomers in the diatom <i>Phaeodactylum tricornutum</i> . <i>Carbohydrate Polymers</i> , 2021, 259, 117660.	5.1	9
118	Integrative Metabolomics Reveals Deep Tissue and Systemic Metabolic Remodeling in Glioblastoma. <i>Cancers</i> , 2021, 13, 5157.	1.7	9
119	Halogen Counter-Ion Effect on the Dissociation of Monosaccharide-iron Complexes Generated by Electrospray Ionization Combined with an Ion Trap Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2001, 7, 331-341.	0.5	8
120	Investigation by Mass Spectrometry of Metal Complexes of New Molecular Hosts: Cyclic Oligomer of Sugar Amino Acid and Sugar-Aza-Crown Ethers. <i>European Journal of Mass Spectrometry</i> , 2008, 14, 61-69.	0.5	8
121	Gas phase self-association of Eudistomin U controlled by gas phase acidity and origin of its interaction with nucleobases. <i>International Journal of Mass Spectrometry</i> , 2009, 286, 43-52.	0.7	8
122	Differentiation of gonyautoxins by ion mobility-mass spectrometry: A cationization study. <i>International Journal of Mass Spectrometry</i> , 2016, 402, 20-28.	0.7	8
123	Determination of the collision cross sections of cardiolipins and phospholipids from <i>Pseudomonas aeruginosa</i> by traveling wave ion mobility spectrometry-mass spectrometry using a novel correction strategy. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 8123-8131.	1.9	8
124	Comparison of Silica and Cellulose Stationary Phases to Analyze Bitumen by High-Performance Thin-Layer Chromatography Coupled to Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 9296-9303.	2.5	8
125	Suggested plausible structures for Titan's haze analogs using tandem mass spectrometry. <i>Icarus</i> , 2021, 358, 114181.	1.1	8
126	Molecular Characterization of a Mixed Plastic Pyrolysis Oil from Municipal Wastes by Direct Infusion Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 14828-14837.	2.5	8

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127	Ion mobility mass spectrometry for structural elucidation of petroleum compounds. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 151, 116597.	5.8	8
128	Fractionation by flash chromatography and molecular characterization of bio-oil by ultra-high-resolution mass spectrometry and NMR spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105611.	2.6	8
129	Implementation of a Penning ionization source on a FTICR instrument with ion funnel optics. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 150-158.	0.7	7
130	Origin of enantioselective reduction of quaternary copper d,l amino acid complexes under vibrational activation conditions. <i>International Journal of Mass Spectrometry</i> , 2012, 312, 185-194.	0.7	7
131	Glycine-modified polyamidoamine dendrimers: synthesis and structural characterization using nuclear magnetic resonance, ion-mobility mass spectrometry and capillary electrophoresis. <i>RSC Advances</i> , 2014, 4, 1744-1753.	1.7	7
132	Tandem mass spectrometry of low solubility polyamides. <i>Analytica Chimica Acta</i> , 2014, 808, 3-9.	2.6	7
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