List of Publications by Year in descending order

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		94433	144013
210	4,846	37	57
papers	citations	h-index	g-index
221	221	221	3950
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Copper(II)-Assisted Enantiomeric Analysis ofd,l-Amino Acids Using the Kinetic Method:Â Chiral Recognition and Quantification in the Gas Phase. Journal of the American Chemical Society, 2000, 122, 10598-10609.	13.7	212
2	Fourier transform ion cyclotron resonance (FT ICR) mass spectrometry: Theory and simulations. Mass Spectrometry Reviews, 2016, 35, 219-258.	5.4	147
3	Initial Experimental Characterization of a New Ultra-High Resolution FTICR Cell with Dynamic Harmonization. Journal of the American Society for Mass Spectrometry, 2011, 22, 1125-1133.	2.8	141
4	Refining the model for selective cleavage at acidic residues in arginine-containing protonated peptides. International Journal of Mass Spectrometry, 2000, 195-196, 467-479.	1.5	112
5	Fourier transform ion cyclotron resonance cell with dynamic harmonization of the electric field in the whole volume by shaping of the excitation and detection electrode assembly. Rapid Communications in Mass Spectrometry, 2011, 25, 122-126.	1.5	92
6	Mass-Spectrometric Detection of SARS-CoV-2 Virus in Scrapings of the Epithelium of the Nasopharynx of Infected Patients via Nucleocapsid N Protein. Journal of Proteome Research, 2020, 19, 4393-4397.	3.7	87
7	Molecular Mapping of Sorbent Selectivities with Respect to Isolation of Arctic Dissolved Organic Matter as Measured by Fourier Transform Mass Spectrometry. Environmental Science & Technology, 2014, 48, 7461-7468.	10.0	86
8	Design and Performance of an ESI Interface for Selective External Ion Accumulation Coupled to a Fourier Transform Ion Cyclotron Mass Spectrometer. Analytical Chemistry, 2001, 73, 253-261.	6.5	84
9	Simple Atmospheric Hydrogen/Deuterium Exchange Method for Enumeration of Labile Hydrogens by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2013, 85, 5330-5334.	6.5	80
10	Hydrogen/deuterium exchange in mass spectrometry. Mass Spectrometry Reviews, 2018, 37, 811-853.	5.4	80
11	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1243-1248.	7.1	79
12	Total Mass Difference Statistics Algorithm: A New Approach to Identification of High-Mass Building Blocks in Electrospray Ionization Fourier Transform Ion Cyclotron Mass Spectrometry Data of Natural Organic Matter. Analytical Chemistry, 2009, 81, 10106-10115.	6.5	74
13	Realistic modeling of ion cloud motion in a Fourier transform ion cyclotron resonance cell by use of a particleâ€inâ€cell approach. Rapid Communications in Mass Spectrometry, 2007, 21, 3527-3546.	1.5	73
14	lsomerization of the Asp7 Residue Results in Zincâ€Induced Oligomerization of Alzheimer's Disease Amyloid β(1–16) Peptide. ChemBioChem, 2008, 9, 1564-1567.	2.6	68
15	Fine Structure in Isotopic Peak Distributions Measured Using a Dynamically Harmonized Fourier Transform Ion Cyclotron Resonance Cell at 7 T. Analytical Chemistry, 2012, 84, 2275-2283.	6.5	65
16	Dynamics of ion motion in an elongated cylindrical cell of an ICR spectrometer and the shape of the signal registered. International Journal of Mass Spectrometry and Ion Processes, 1985, 64, 115-125.	1.8	62
17	Ion cyclotron resonance signal-detection at multiples of the cyclotron frequency. Rapid Communications in Mass Spectrometry, 1990, 4, 144-146.	1.5	62
18	Independent Control of Ion Transmission in a Jet Disrupter Dual-Channel Ion Funnel Electrospray Ionization MS Interface. Analytical Chemistry, 2002, 74, 5431-5437.	6.5	62

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19	Enumeration of Labile Hydrogens in Natural Organic Matter by Use of Hydrogen/Deuterium Exchange Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2013, 85, 11007-11013.	6.5	60
20	The Nâ€domain of angiotensinâ€converting enzyme specifically hydrolyzes the Argâ€5â€Hisâ€6 bond of Alzheimer's Aβâ€(1â€16) peptide and its isoAspâ€7 analogue with different efficiency as evidenced by quantitative matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 231-239.	1.5	55
21	In-ESI Source Hydrogen/Deuterium Exchange of Carbohydrate Ions. Analytical Chemistry, 2014, 86, 2595-2600.	6.5	55
22	Mass spectrometric characterization of photooxidative protein modifications in <i>Arabidopsis thaliana</i> thylakoid membranes. Rapid Communications in Mass Spectrometry, 2011, 25, 184-190.	1.5	52
23	Electrospray ionization-Fourier transform ion cyclotron mass spectrometry using ion preselection and external accumulation for ultrahigh sensitivity. Journal of the American Society for Mass Spectrometry, 2001, 12, 38-48.	2.8	51
24	Proteomics of exhaled breath: methodological nuances and pitfalls. Clinical Chemistry and Laboratory Medicine, 2009, 47, 706-12.	2.3	50
25	Phosphorylation and nitration levels of photosynthetic proteins are conversely regulated by light stress. Plant Molecular Biology, 2011, 77, 461-473.	3.9	49
26	lon discrimination during ion accumulation in a quadrupole interface external to a Fourier transform ion cyclotron resonance mass spectrometer. International Journal of Mass Spectrometry, 2001, 208, 205-225.	1.5	48
27	Analysis and elimination of systematic errors originating from coulomb mutual interaction and image charge in Fourier transform ion cyclotron resonance precise mass difference measurements. Journal of the American Society for Mass Spectrometry, 1993, 4, 855-868.	2.8	47
28	Enumeration of non-labile oxygen atoms in dissolved organic matter by use of 16O/18O exchange and Fourier transform ion-cyclotron resonance mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 6655-6664.	3.7	46
29	Dissection of the deep-blue autofluorescence changes accompanying amyloid fibrillation. Archives of Biochemistry and Biophysics, 2018, 651, 13-20.	3.0	46
30	Dynamically Harmonized FT-ICR Cell with Specially Shaped Electrodes for Compensation of Inhomogeneity of the Magnetic Field. Computer Simulations of the Electric Field and Ion Motion Dynamics. Journal of the American Society for Mass Spectrometry, 2012, 23, 2198-2207.	2.8	45
31	Fourier Transform Ion Cyclotron Resonance Mass Resolution and Dynamic Range Limits Calculated by Computer Modeling of Ion Cloud Motion. Journal of the American Society for Mass Spectrometry, 2012, 23, 375-384.	2.8	45
32	Performance of Orbitrap Mass Analyzer at Various Space Charge and Non-Ideal Field Conditions: Simulation Approach. Journal of the American Society for Mass Spectrometry, 2012, 23, 977-987.	2.8	43
33	Synthesis of model humic substances: a mechanistic study using controllable H/D exchange and Fourier transform ion cyclotron resonance mass spectrometry. Analyst, The, 2015, 140, 4708-4719.	3.5	43
34	Simple Synthesis of Ruthenium π Complexes of Aromatic Amino Acids and Small Peptides. Chemistry - A European Journal, 2010, 16, 8466-8470.	3.3	41
35	Conformational changes of ubiquitin during electrospray ionization as determined by inâ€ESI source H/D exchange combined with highâ€resolution MS and ECD fragmentation. Journal of Mass Spectrometry, 2014, 49, 989-994.	1.6	40
36	Direct analysis of volatile organic compounds in human breath using a miniaturized cylindrical ion trap mass spectrometer with a membrane inlet. Rapid Communications in Mass Spectrometry, 2002, 16, 2370-2373.	1.5	39

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37	Matrix-Assisted Laser Desorption Ionization-Time of Flight (Mass Spectrometry) for Hepatitis C Virus Genotyping. Journal of Clinical Microbiology, 2005, 43, 2810-2815.	3.9	39
38	Ubiquitinâ€independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. FASEB Journal, 2015, 29, 1901-1913.	0.5	39
39	Expression and characterization of a new esterase with GCSAG motif from a permafrost metagenomic library. FEMS Microbiology Ecology, 2016, 92, fiw046.	2.7	39
40	Cluster Grignard Reagents. Organometallics, 2001, 20, 2449-2450.	2.3	38
41	A novel direct spray-from-tissue ionization method for mass spectrometric analysis of human brain tumors. Analytical and Bioanalytical Chemistry, 2015, 407, 7797-7805.	3.7	37
42	Comparison of particle-in-cell simulations with experimentally observed frequency shifts between ions of the same mass-to-charge in fourier transform ion cyclotron resonance mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 203-208.	2.8	36
43	Absorptionâ€mode spectra on the dynamically harmonized Fourier transform ion cyclotron resonance cell. Rapid Communications in Mass Spectrometry, 2012, 26, 2021-2026.	1.5	36
44	Initial implementation of external accumulation liquid chromatography/electrospray ionization Fourier transform ion cyclotron resonance with automated gain control. Rapid Communications in Mass Spectrometry, 2003, 17, 627-636.	1.5	35
45	Capabilities of MS for Analytical Quantitative Determination of the Ratio of α- and βAsp7 Isoforms of the Amyloid-β Peptide in Binary Mixtures. Analytical Chemistry, 2011, 83, 3205-3210.	6.5	35
46	Time-course human urine proteomics in space-flight simulation experiments. BMC Genomics, 2014, 15, S2.	2.8	35
47	High desolvation temperature facilitates the ESI-source H/D exchange at non-labile sites of hydroxybenzoic acids and aromatic amino acids. Analyst, The, 2016, 141, 2426-2434.	3.5	35
48	Tandem Fourier Transform Mass Spectrometry Studies of Surface-Induced Dissociation of Benzene Monomer and Dimer Ions on a Self-Assembled Fluorinated Alkanethiolate Monolayer Surface. Analytical Chemistry, 1997, 69, 2496-2503.	6.5	33
49	Investigation of dialkyl tartrate molecular recognition in cluster ions by Fourier transform mass spectrometry: a comparison of chirality effects in gas and liquid phases. International Journal of Mass Spectrometry, 1999, 182-183, 357-368.	1.5	33
50	Theory of peak coalescence in Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 3213-3219.	1.5	33
51	Ambient molecular imaging of dry fungus surface by electrospray laser desorption ionization mass spectrometry. International Journal of Mass Spectrometry, 2012, 325-327, 172-182.	1.5	33
52	Potassium Ions are More Effective than Sodium Ions in Salt Induced Peptide Formation. Origins of Life and Evolution of Biospheres, 2013, 43, 109-117.	1.9	33
53	Optical Properties of Soil Dissolved Organic Matter Are Related to Acidic Functions of Its Components as Revealed by Fractionation, Selective Deuteromethylation, and Ultrahigh Resolution Mass Spectrometry. Environmental Science & Technology, 2020, 54, 2667-2677.	10.0	33
54	Optimal cyclotron radius for high resolution FT-ICR spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1993, 125, 1-8.	1.8	32

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55	Twelve Million Resolving Power on 4.7ÂT Fourier Transform Ion Cyclotron Resonance Instrument with Dynamically Harmonized Cell—Observation of Fine Structure in Peptide Mass Spectra. Journal of the American Society for Mass Spectrometry, 2014, 25, 790-799.	2.8	32
56	Changes in spectral properties and composition of lipofuscin fluorophores from human-retinal-pigment epithelium with age and pathology. Analytical and Bioanalytical Chemistry, 2015, 407, 1075-1088.	3.7	32
57	Evolution of an ion cloud in a Fourier transform ion cyclotron resonance mass spectrometer during signal detection: its influence on spectral line shape and position. International Journal of Mass Spectrometry and Ion Processes, 1995, 148, 145-157.	1.8	31
58	Conformations of cationized linear oligosaccharides revealed by FTMS combined with inâ€ESI H/D exchange. Journal of Mass Spectrometry, 2015, 50, 1150-1156.	1.6	30
59	In ESI-source H/D exchange under atmospheric pressure for peptides and proteins of different molecular weights from 1 to 66 kDa: the role of the temperature of the desolvating capillary on H/D exchange. Journal of Mass Spectrometry, 2015, 50, 49-55.	1.6	30
60	Molecular compositions of humic acids extracted from leonardite and lignite as determined by Fourier transform ion cyclotron resonance mass spectrometry. Mendeleev Communications, 2016, 26, 446-448.	1.6	30
61	Investigation of asymmetric gas-phase ion/molecule reactions by FT-ICR spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1988, 86, 249-252.	1.8	29
62	Implementation of low-energy surface-induced dissociation (eV SID) and high-energy collision-induced dissociation (keV CID) in a linear sector-TOF hybrid tandem mass spectrometer. International Journal of Mass Spectrometry, 2001, 212, 535-551.	1.5	29
63	Supermetallization of peptides and proteins during electrospray ionization. Journal of Mass Spectrometry, 2015, 50, 1079-1087.	1.6	29
64	Novel water-soluble lignin derivative BP-Cx-1: identification of components and screening of potential targets <i>in silico</i> and <i>in vitro</i> . Oncotarget, 2018, 9, 18578-18593.	1.8	29
65	A new technique for unbiased external ion accumulation in a quadrupole two-dimensional ion trap for electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2001, 15, 1172-1180.	1.5	28
66	Considerations for electron capture dissociation efficiency in FTICR mass spectrometry. International Journal of Mass Spectrometry, 2004, 234, 131-136.	1.5	28
67	Analysis of harmonics for an elongated FTMS cell with multiple electrode detection. International Journal of Mass Spectrometry and Ion Processes, 1996, 157-158, 215-232.	1.8	27
68	Vertical Transmission of SARS-CoV-2 in Second Trimester Associated with Severe Neonatal Pathology. Viruses, 2021, 13, 447.	3.3	27
69	The Parallel Reaction Monitoring-Parallel Accumulation–Serial Fragmentation (prm-PASEF) Approach for Multiplexed Absolute Quantitation of Proteins in Human Plasma. Analytical Chemistry, 2022, 94, 2016-2022.	6.5	26
70	Instrumentation of Kinetic Energy-Resolved Surface-Induced Dissociation in Fourier Transform Mass Spectrometry. European Journal of Mass Spectrometry, 2000, 6, 299-317.	1.0	25
71	Letter: Separation of Tautomeric Forms of [2-Nitrophloroglucinol-H] ^{â^'} by an in-Electrospray Ionization Source Hydrogen/Deuterium Exchange Approach. European Journal of Mass Spectrometry, 2014, 20, 345-349.	1.0	25
72	The Effects of Spaceflight Factors on the Human Plasma Proteome, Including Both Real Space Missions and Ground-Based Experiments. International Journal of Molecular Sciences, 2019, 20, 3194.	4.1	25

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73	Examination of molecular space and feasible structures of bioactive components of humic substances by FTICR MS data mining in ChEMBL database. Scientific Reports, 2019, 9, 12066.	3.3	25
74	Letter: Multiply Charged Ions in Matrix-Assisted Laser Desorption/Ionization Generated from Electrosprayed Sample Layers. European Journal of Mass Spectrometry, 2005, 11, 257-259.	1.0	24
75	Detection of Renal Tissue and Urinary Tract Proteins in the Human Urine after Space Flight. PLoS ONE, 2013, 8, e71652.	2.5	24
76	The investigation of the bitumen from ancient Greek amphora using FT ICR MS, H/D exchange and novel spectrum reduction approach Journal of Mass Spectrometry, 2016, 51, 430-436.	1.6	24
77	Spaceflight induced changes in the human proteome. Expert Review of Proteomics, 2017, 14, 15-29.	3.0	23
78	Protein expression changes caused by spaceflight as measured for 18 Russian cosmonauts. Scientific Reports, 2017, 7, 8142.	3.3	22
79	Domain wall dynamics in TbFeCo thin films. IEEE Transactions on Magnetics, 1992, 28, 2928-2930.	2.1	21
80	Analysis of phase dependent frequency shifts in simulated FTMS transients using the filter diagonalization method. International Journal of Mass Spectrometry, 2012, 325-327, 19-24.	1.5	21
81	Letter: Observation of the ¹⁶ 0/ ¹⁸ O Exchange during Electrospray Ionization. European Journal of Mass Spectrometry, 2015, 21, 109-113.	1.0	21
82	Domain wall motion in RE-TM films with different thickness. IEEE Transactions on Magnetics, 1993, 29, 2536-2538.	2.1	20
83	Chiral Preferences in the Dissociation of Homogeneous Amino Acid/Metal Ion Clusters. European Journal of Mass Spectrometry, 2002, 8, 107-115.	1.0	20
84	Detection of explosives on solid surfaces by thermal desorption and ambient ion/molecule reactions. Chemical Communications, 2005, , 1953.	4.1	20
85	Analytical Potential of the In-Electrospray Ionization Source Hydrogen/Deuterium Exchange for the Investigation of Oligonucleotides. European Journal of Mass Spectrometry, 2015, 21, 59-63.	1.0	20
86	Fractal domain structures in thin amorphous films. IEEE Transactions on Magnetics, 1992, 28, 2931-2933.	2.1	19
87	Tracking the Magnetron Motion in FT-ICR Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 1349-1366.	2.8	19
88	The investigation of the birch tar using ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry and Hydrogen/Deuterium exchange approach. International Journal of Mass Spectrometry, 2016, 404, 29-34.	1.5	19
89	Extraction of humic substances from fresh waters on solid-phase cartridges and their study by Fourier transform ion cyclotron resonance mass spectrometry. Journal of Analytical Chemistry, 2016, 71, 372-378.	0.9	19
90	Ion Motion Stability Diagram for Distorted Square Waveform Trapping Voltage. European Journal of Mass Spectrometry, 2002, 8, 191-199.	1.0	18

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91	Hydrogen/Deuterium Exchange Aiding Compound Identification for LC-MS and MALDI Imaging Lipidomics. Analytical Chemistry, 2019, 91, 13465-13474.	6.5	18
92	Inline cartridge extraction for rapid brain tumor tissue identification by molecular profiling. Scientific Reports, 2019, 9, 18960.	3.3	18
93	Permanent proteins in the urine of healthy humans during the Mars-500 experiment. Journal of Bioinformatics and Computational Biology, 2015, 13, 1540001.	0.8	17
94	Labelâ€free cervicovaginal fluid proteome profiling reflects the cervix neoplastic transformation. Journal of Mass Spectrometry, 2019, 54, 693-703.	1.6	17
95	The proton bound association of large multifunctional group molecules: Tartaric acid esters. Rapid Communications in Mass Spectrometry, 1992, 6, 429-433.	1.5	16
96	Detection and study of the products of photooxidation of N-retinylidene-N-retinylethanolamine (A2E), the fluorophore of lipofuscin granules from retinal pigment epithelium of human donor eyes. Doklady Biochemistry and Biophysics, 2006, 409, 223-225.	0.9	16
97	Diastereoselective lithium salt-assisted 1,3-dipolar cycloaddition of azomethine ylides to the fullerene C60. Tetrahedron, 2010, 66, 3037-3041.	1.9	16
98	Accurate mass tag retention time database for urine proteome analysis by chromatography-mass spectrometry. Biochemistry (Moscow), 2010, 75, 636-641.	1.5	16
99	FT ICR investigations of chiral supramolecular propellers of dialkyltartrate trimers with methylammonium ions. International Journal of Mass Spectrometry and Ion Processes, 1997, 167-168, 259-268.	1.8	15
100	The youngest natural oil on earth. Doklady Chemistry, 2011, 438, 144-147.	0.9	15
101	Mass spectrometry analysis of the diversity of AÎ ² peptides: difficulties and future perspectives for AD biomarker discovery. Expert Review of Proteomics, 2018, 15, 773-775.	3.0	15
102	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). Pure and Applied Chemistry, 2020, 92, 1447-1467.	1.9	15
103	Hydrogen/Deuterium and ¹⁶ 0/ ¹⁸ 0-Exchange Mass Spectrometry Boosting the Reliability of Compound Identification. Analytical Chemistry, 2020, 92, 6877-6885.	6.5	14
104	Assessment of variation of inline cartridge extraction mass spectra. Journal of Mass Spectrometry, 2021, 56, e4640.	1.6	14
105	Gausemycinsâ€A,B: Cyclic Lipoglycopeptides from <i>Streptomyces</i> sp.**. Angewandte Chemie - International Edition, 2021, 60, 18694-18703.	13.8	14
106	Trace Analysis of Organics in Air by Corona Discharge Atmospheric Pressure Ionization Using an Electrospray Ionization Interface. European Journal of Mass Spectrometry, 2004, 10, 197-204.	1.0	13
107	Relation between lignin molecular profile and fungal exo-proteome during kraft lignin modification by Trametes hirsuta LE-BIN 072. Bioresource Technology, 2021, 335, 125229.	9.6	13
108	ESI-MS identification of the minimal zinc-binding center in natural isoforms of β-amyloid domain 1–16. Molecular Biology, 2013, 47, 440-445.	1.3	12

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109	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. Molecular Biology, 2013, 47, 885-893.	1.3	12
110	N-domain of angiotensin-converting enzyme hydrolyzes human and rat amyloid-β(1-16) peptides as arginine specific endopeptidase potentially enhancing risk of Alzheimer's disease. Scientific Reports, 2018, 8, 298.	3.3	12
111	Evaluation of MALDI-TOF/TOF Mass Spectrometry Approach for Quantitative Determination of Aspartate Residue Isomerization in the Amyloid-Î ² Peptide. Journal of the American Society for Mass Spectrometry, 2019, 30, 1325-1329.	2.8	12
112	Mass spectrometric monitoring of exhaled breath condensate proteome of a patient after lung transplantation. Russian Chemical Bulletin, 2010, 59, 292-296.	1.5	11
113	Some notes about FT ICR mass spectrometry. International Journal of Mass Spectrometry, 2015, 377, 421-431.	1.5	11
114	Investigation of urine proteome of preterm newborns with respiratory pathologies. Journal of Proteomics, 2016, 149, 31-37.	2.4	11
115	Dichloromethane as solvent and reagent: a case study of photoinduced reactions in mixed phosphoniumâ€iodonium ylide. Journal of Physical Organic Chemistry, 2018, 31, e3844.	1.9	11
116	Proteome Profiling of the Exhaled Breath Condensate after Long-Term Spaceflights. International Journal of Molecular Sciences, 2019, 20, 4518.	4.1	11
117	Feature selection for OPLS discriminant analysis of cancer tissue lipidomics data. Journal of Mass Spectrometry, 2020, 55, e4457.	1.6	10
118	Refinement of Compound Aromaticity in Complex Organic Mixtures by Stable Isotope Label Assisted Ultrahigh-Resolution Mass Spectrometry. Analytical Chemistry, 2020, 92, 9032-9038.	6.5	10
119	Mossbauer spectroscopy and magneto-optical studies of Tb-Fe films. IEEE Transactions on Magnetics, 1992, 28, 2524-2526.	2.1	9
120	High-resolution mass-spectrometry analysis of peptides and proteins. Russian Chemical Reviews, 2012, 81, 1051-1070.	6.5	9
121	Signal Enhancement in Electrospray Laser Desorption/Ionization Mass Spectrometry by Using a Black Oxide-Coated Metal Target and a Relatively Low Laser Fluence. European Journal of Mass Spectrometry, 2013, 19, 247-252.	1.0	9
122	Supermetallization of Peptides and Proteins with Tetravalent Metal Th(IV). European Journal of Mass Spectrometry, 2016, 22, 39-42.	1.0	9
123	Differential Diagnosis of Preeclampsia Based on Urine Peptidome Features Revealed by High Resolution Mass Spectrometry. Diagnostics, 2020, 10, 1039.	2.6	9
124	Aromaticity Index with Improved Estimation of Carboxyl Group Contribution for Biogeochemical Studies. Environmental Science & amp; Technology, 2022, 56, 2729-2737.	10.0	9
125	Impact of ozone treatment on dissolved organic matter in land-based recirculating aquaculture systems studied by Fourier transform ion cyclotron resonance mass spectrometry. Science of the Total Environment, 2022, 843, 157009.	8.0	9
126	Novel possibilities in the study of isolated carbon nanotubes. Rapid Communications in Mass Spectrometry, 2008, 22, 1372-1376.	1.5	8

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127	Use of models of biomacromolecule separation in AMT database generation for shotgun proteomics. Biochemistry (Moscow), 2009, 74, 1195-1202.	1.5	8
128	Changes in urine protein composition in human organism during long term space flights. Acta Astronautica, 2012, 81, 430-434.	3.2	8
129	Estimation of phosphorylation level of amyloid-beta isolated from human blood plasma: Ultrahigh-resolution mass spectrometry. Molecular Biology, 2014, 48, 607-614.	1.3	8
130	Early diagnosis of lung cancer based on proteome analysis of exhaled breath condensate. Moscow University Chemistry Bulletin, 2016, 71, 134-139.	0.6	8
131	Influence of solvent on the yield and chemical composition of liquid products of hydrothermal liquefaction of <i>Arthrospira platensis</i> as revealed by Fourier transform ion cyclotron resonance mass spectrometry. European Journal of Mass Spectrometry, 2018, 24, 363-374.	1.0	8
132	Urine proteome changes associated with autonomic regulation of heart rate in cosmonauts. BMC Systems Biology, 2019, 13, 17.	3.0	8
133	Combined Impact of Magnetic Force and Spaceflight Conditions on Escherichia coli Physiology. International Journal of Molecular Sciences, 2022, 23, 1837.	4.1	8
134	The realization of a low-energy ion-scattering technique with an ion cyclotron resonance spectrometer. Rapid Communications in Mass Spectrometry, 1991, 5, 260-262.	1.5	7
135	Computer simulations of the fission process of charged nanometre droplets. Philosophical Magazine, 2004, 84, 157-171.	1.6	7
136	Determination of the Non-Constant Component of Ion Mobility Using the Spectrometer of Ion Mobility Increment. European Journal of Mass Spectrometry, 2006, 12, 143-151.	1.0	7
137	In situ recognition of molecular chirality by mass spectrometry. International Journal of Mass Spectrometry, 2007, 265, 347-358.	1.5	7
138	Novel Mass Spectrometric Utilities for Assisting in Oncological Surgery. Russian Journal of Physical Chemistry B, 2020, 14, 483-487.	1.3	7
139	Oxygen Isotope Exchange Reaction for Untargeted LC–MS Analysis. Journal of the American Society for Mass Spectrometry, 2022, 33, 390-398.	2.8	7
140	PyFragMS─A Web Tool for the Investigation of the Collision-Induced Fragmentation Pathways. ACS Omega, 2022, 7, 9710-9719.	3.5	7
141	The Dynamics of β-Amyloid Proteoforms Accumulation in the Brain of a 5xFAD Mouse Model of Alzheimer's Disease. International Journal of Molecular Sciences, 2022, 23, 27.	4.1	7
142	Analysis of Non-Linear Ion Drift in Spectrometers of Ion Mobility Increment with Cylindrical Drift Chamber. European Journal of Mass Spectrometry, 2006, 12, 153-160.	1.0	6
143	Quantitative ESI-MS analysis of antiarrhythmic drugs in blood plasma without chromatographic separation. Pharmaceutical Chemistry Journal, 2007, 41, 166-169.	0.8	6
144	Supermetallization of Substance P during electrospray ionization. Mendeleev Communications, 2016, 26, 111-113.	1.6	6

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145	The molecular mechanisms driving physiological changes after long duration space flights revealed by quantitative analysis of human blood proteins. BMC Medical Genomics, 2019, 12, 45.	1.5	6
146	Evaluation of major historical ICR cell designs using electric field simulations. Mass Spectrometry Reviews, 2020, , .	5.4	6
147	The Effect of Five-Day Dry Immersion on the Nervous and Metabolic Mechanisms of the Circulatory System. Frontiers in Physiology, 2020, 11, 692.	2.8	6
148	Relative Quantitation of Beta-Amyloid Peptide Isomers with Simultaneous Isomerization of Multiple Aspartic Acid Residues by Matrix Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 164-168.	2.8	6
149	How to Increase Further the Resolving Power of the Ultrahigh Magnetic Field FT ICR Instruments? The New Concept of the FT ICR Cell–the Open Dynamically Harmonized Cell as a Part of the Vacuum System Wall. Analytical Chemistry, 2021, 93, 1249-1253.	6.5	6
150	Analysis of the Bio-oil Produced by the Hydrothermal Liquefaction of Biomass Using High-Resolution Mass Spectrometry and Isotope Exchange. Energy & Fuels, 2021, 35, 12208-12215.	5.1	6
151	Inhibition of Class A β-Lactamase (TEM-1) by Narrow Fractions of Humic Substances. ACS Omega, 2021, 6, 23873-23883.	3.5	6
152	Victor L. Talroze: 1922–2004. Journal of the American Society for Mass Spectrometry, 2004, 15, 1517-1519.	2.8	5
153	Misphasing of Ion Motion in Quadratic Potential Induced by Space-Periodic Disturbance. European Journal of Mass Spectrometry, 2008, 14, 1-5.	1.0	5
154	Effect of Magnetic Field Inhomogeneity on Ion Cyclotron Motion Coherence at High Magnetic Field. European Journal of Mass Spectrometry, 2015, 21, 443-449.	1.0	5
155	Probabilistic model applied to ion abundances in product-ion spectra: quantitative analysis of aspartic acid isomerization in peptides. Analytical and Bioanalytical Chemistry, 2019, 411, 7783-7789.	3.7	5
156	Fourier transform ion cyclotron resonance mass spectrometry for the analysis of molecular composition and batchâ€ŧoâ€batch consistency of plantâ€derived polyphenolic ligands developed for biomedical application. Rapid Communications in Mass Spectrometry, 2020, 34, e8850.	1.5	5
157	Mass spectrometry based proteome profiling of the exhaled breath condensate for lung cancer biomarkers search. Expert Review of Proteomics, 2021, 18, 637-642.	3.0	5
158	Directed Synthesis of Humic and Fulvic Derivatives with Enhanced Antioxidant Properties. Agronomy, 2021, 11, 2047.	3.0	5
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