Evgeny N Nikolaev

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3,898 203 51 34 h-index g-index citations papers 4,441 221 3.4 5.34 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
203	Copper(II)-Assisted Enantiomeric Analysis ofd,l-Amino Acids Using the Kinetic Method: Chiral Recognition and Quantification in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10598-10609	16.4	190
202	Initial experimental characterization of a new ultra-high resolution FTICR cell with dynamic harmonization. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1125-33	3.5	122
201	Fourier transform ion cyclotron resonance (FT ICR) mass spectrometry: Theory and simulations. <i>Mass Spectrometry Reviews</i> , 2016 , 35, 219-58	11	113
200	Refining the model for selective cleavage at acidic residues in arginine-containing protonated peptides. <i>International Journal of Mass Spectrometry</i> , 2000 , 195-196, 467-479	1.9	108
199	Design and performance of an ESI interface for selective external ion accumulation coupled to a Fourier transform ion cyclotron mass spectrometer. <i>Analytical Chemistry</i> , 2001 , 73, 253-61	7.8	79
198	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. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 122-6	2.2	74
197	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1243-8	11.5	69
196	Simple atmospheric hydrogen/deuterium exchange method for enumeration of labile hydrogens by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 5330-4	7.8	69
195	Molecular mapping of sorbent selectivities with respect to isolation of Arctic dissolved organic matter as measured by Fourier transform mass spectrometry. <i>Environmental Science & Environmental Sci</i>	10.3	67
194	Realistic modeling of ion cloud motion in a Fourier transform ion cyclotron resonance cell by use of a particle-in-cell approach. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 3527-46	2.2	67
193	Mass-Spectrometric Detection of SARS-CoV-2 Virus in Scrapings of the Epithelium of the Nasopharynx of Infected Patients via Nucleocapsid N Protein. <i>Journal of Proteome Research</i> , 2020 , 19, 4393-4397	5.6	59
192	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. <i>Analytical Chemistry</i> , 2009 , 81, 10106-15	7.8	57
191	Ion cyclotron resonance signal-detection at multiples of the cyclotron frequency. <i>Rapid Communications in Mass Spectrometry</i> , 1990 , 4, 144-146	2.2	56
190	Isomerization of the Asp7 residue results in zinc-induced oligomerization of Alzheimer's disease amyloid beta(1-16) peptide. <i>ChemBioChem</i> , 2008 , 9, 1564-7	3.8	55
189	Dynamics of ion motion in an elongated cylindrical cell of an ICR spectrometer and the shape of the signal registered. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1985 , 64, 115-125		55
188	Hydrogen/deuterium exchange in mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 811-853	11	55
187	Independent control of ion transmission in a jet disrupter dual-channel ion funnel electrospray ionization MS interface. <i>Analytical Chemistry</i> , 2002 , 74, 5431-7	7.8	54

186	Enumeration of labile hydrogens in natural organic matter by use of hydrogen/deuterium exchange Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 11007-1	3 ^{7.8}	53	
185	Fine structure in isotopic peak distributions measured using a dynamically harmonized Fourier transform ion cyclotron resonance cell at 7 T. <i>Analytical Chemistry</i> , 2012 , 84, 2275-83	7.8	52	
184	In-ESI source hydrogen/deuterium exchange of carbohydrate ions. <i>Analytical Chemistry</i> , 2014 , 86, 2595	5-6908	47	
183	Ion discrimination during ion accumulation in a quadrupole interface external to a Fourier transform ion cyclotron resonance mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2001 , 208, 205-225	1.9	46	
182	Electrospray ionization-Fourier transform ion cyclotron mass spectrometry using ion preselection and external accumulation for ultrahigh sensitivity. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 38-48	3.5	46	
181	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, 855-68	3.5	45	
180	The N-domain of angiotensin-converting enzyme specifically hydrolyzes the Arg-5-His-6 bond of Alzheimer's Abeta-(1-16) peptide and its isoAsp-7 analogue with different efficiency as evidenced by quantitative matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid</i>	2.2	44	
179	Communications in Mass Spectrometry, 2008 , 22, 231-9 Mass spectrometric characterization of photooxidative protein modifications in Arabidopsis thaliana thylakoid membranes. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 184-90	2.2	43	
178	Fourier transform ion cyclotron resonance mass resolution and dynamic range limits calculated by computer modeling of ion cloud motion. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 375-84	3.5	42	
177	Enumeration of non-labile oxygen atoms in dissolved organic matter by use of ID/ ID exchange and Fourier transform ion-cyclotron resonance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6655-64	4.4	40	
176	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 2198-207	3.5	40	
175	Phosphorylation and nitration levels of photosynthetic proteins are conversely regulated by light stress. <i>Plant Molecular Biology</i> , 2011 , 77, 461-73	4.6	39	
174	Proteomics of exhaled breath: methodological nuances and pitfalls. <i>Clinical Chemistry and Laboratory Medicine</i> , 2009 , 47, 706-12	5.9	39	
173	Synthesis of model humic substances: a mechanistic study using controllable H/D exchange and Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst, The</i> , 2015 , 140, 4708-19	5	38	
172	Simple synthesis of ruthenium pi complexes of aromatic amino acids and small peptides. <i>Chemistry - A European Journal</i> , 2010 , 16, 8466-70	4.8	37	
171	Conformational changes of ubiquitin during electrospray ionization as determined by in-ESI source H/D exchange combined with high-resolution MS and ECD fragmentation. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 989-94	2.2	36	
170	Performance of Orbitrap mass analyzer at various space charge and non-ideal field conditions: simulation approach. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 977-87	3.5	35	
169	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, 203-8	3.5	34	

168	Matrix-assisted laser desorption ionization-time of flight (mass spectrometry) for hepatitis C virus genotyping. <i>Journal of Clinical Microbiology</i> , 2005 , 43, 2810-5	9.7	34
167	A novel direct spray-from-tissue ionization method for mass spectrometric analysis of human brain tumors. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7797-805	4.4	33
166	High desolvation temperature facilitates the ESI-source H/D exchange at non-labile sites of hydroxybenzoic acids and aromatic amino acids. <i>Analyst, The</i> , 2016 , 141, 2426-34	5	33
165	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, 2496-503	7.8	33
164	Direct analysis of volatile organic compounds in human breath using a miniaturized cylindrical ion trap mass spectrometer with a membrane inlet. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 2370-3	2.2	33
163	Cluster Grignard Reagents. <i>Organometallics</i> , 2001 , 20, 2449-2450	3.8	33
162	Investigation of dialkyl tartrate molecular recognition in cluster ions by Fourier transform mass spectrometry: a comparison of chirality effects in gas and liquid phases. <i>International Journal of Mass Spectrometry</i> , 1999 , 182-183, 357-368	1.9	33
161	Ubiquitin-independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. <i>FASEB Journal</i> , 2015 , 29, 1901-13	0.9	32
160	Ambient molecular imaging of dry fungus surface by electrospray laser desorption ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 172-182	1.9	32
159	Optimal cyclotron radius for high resolution FT-ICR spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993 , 125, 1-8		32
158	Absorption-mode spectra on the dynamically harmonized Fourier transform ion cyclotron resonance cell. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2021-6	2.2	31
157	Initial implementation of external accumulation liquid chromatography/electrospray ionization Fourier transform ion cyclotron resonance with automated gain control. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 627-36	2.2	31
156	Dissection of the deep-blue autofluorescence changes accompanying amyloid fibrillation. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 651, 13-20	4.1	31
155	Expression and characterization of a new esterase with GCSAG motif from a permafrost metagenomic library. <i>FEMS Microbiology Ecology</i> , 2016 , 92, fiw046	4.3	28
154	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. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 49-55	2.2	28
153	Capabilities of MS for analytical quantitative determination of the ratio of <code>Hand Asp7</code> isoforms of the amyloid-peptide in binary mixtures. <i>Analytical Chemistry</i> , 2011 , 83, 3205-10	7.8	28
152	Theory of peak coalescence in Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3213-9	2.2	28
	Implementation of low-energy surface-induced dissociation (eV SID) and high-energy		

(2013-1995)

150	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. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 148, 145-157		27
149	Analysis of harmonics for an elongated FTMS cell with multiple electrode detection. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996 , 157-158, 215-232		27
148	Twelve million resolving power on 4.7 T Fourier transform ion cyclotron resonance instrument with dynamically harmonized cellobservation of fine structure in peptide mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 790-9	3.5	26
147	Conformations of cationized linear oligosaccharides revealed by FTMS combined with in-ESI H/D exchange. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 1150-6	2.2	26
146	Potassium ions are more effective than sodium ions in salt induced peptide formation. <i>Origins of Life and Evolution of Biospheres</i> , 2013 , 43, 109-17	1.5	26
145	Considerations for electron capture dissociation efficiency in FTICR mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2004 , 234, 131-136	1.9	26
144	Investigation of asymmetric gas-phase ion/molecule reactions by FT-ICR spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988 , 86, 249-252		26
143	Separation of tautomeric forms of [2-nitrophloroglucinol-H]- by an in-electrospray ionization source hydrogen/deuterium exchange approach. <i>European Journal of Mass Spectrometry</i> , 2014 , 20, 345-9	1.1	25
142	Supermetallization of peptides and proteins during electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 1079-1087	2.2	25
141	Changes in spectral properties and composition of lipofuscin fluorophores from human-retinal-pigment epithelium with age and pathology. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1075-88	4.4	24
140	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. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1172-80	2.2	24
139	Instrumentation of Kinetic Energy-Resolved Surface-Induced Dissociation in Fourier Transform Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2000 , 6, 299-317	1.1	22
138	The investigation of the bitumen from ancient Greek amphora using FT ICR MS, H/D exchange and novel spectrum reduction approach. <i>Journal of Mass Spectrometry</i> , 2016 , 51, 430-6	2.2	22
137	Letter: Observation of the 16O/18O exchange during electrospray ionization. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 109-13	1.1	21
136	Multiply charged ions in matrix-assisted laser desorption/ionization generated from electrosprayed sample layers. <i>European Journal of Mass Spectrometry</i> , 2005 , 11, 257-9	1.1	21
135	Time-course human urine proteomics in space-flight simulation experiments. <i>BMC Genomics</i> , 2014 , 15 Suppl 12, S2	4.5	20
134	Letter: Analytical potential of the in-electrospray ionization source hydrogen/deuterium exchange for the investigation of oligonucleotides. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 59-63	1.1	20
133	Detection of renal tissue and urinary tract proteins in the human urine after space flight. <i>PLoS ONE</i> , 2013 , 8, e71652	3.7	19

132	Chiral Preferences in the Dissociation of Homogeneous Amino Acid/Metal Ion Clusters. <i>European Journal of Mass Spectrometry</i> , 2002 , 8, 107-115	1.1	19
131	. IEEE Transactions on Magnetics, 1992 , 28, 2931-2933	2	19
130	The investigation of the birch tar using ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry and Hydrogen/Deuterium exchange approach. <i>International Journal of Mass Spectrometry</i> , 2016 , 404, 29-34	1.9	19
129	Molecular compositions of humic acids extracted from leonardite and lignite as determined by Fourier transform ion cyclotron resonance mass spectrometry. <i>Mendeleev Communications</i> , 2016 , 26, 446-448	1.9	19
128	. IEEE Transactions on Magnetics, 1992 , 28, 2928-2930	2	18
127	. IEEE Transactions on Magnetics, 1993 , 29, 2536-2538	2	17
126	Novel water-soluble lignin derivative BP-Cx-1: identification of components and screening of potential targets and. <i>Oncotarget</i> , 2018 , 9, 18578-18593	3.3	17
125	Extraction of humic substances from fresh waters on solid-phase cartridges and their study by Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Analytical Chemistry</i> , 2016 , 71, 372-378	1.1	17
124	Permanent proteins in the urine of healthy humans during the Mars-500 experiment. <i>Journal of Bioinformatics and Computational Biology</i> , 2015 , 13, 1540001	1	16
123	Protein expression changes caused by spaceflight as measured for 18 Russian cosmonauts. <i>Scientific Reports</i> , 2017 , 7, 8142	4.9	15
122	The Effects of Spaceflight Factors on the Human Plasma Proteome, Including Both Real Space Missions and Ground-Based Experiments. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	15
121	Spaceflight induced changes in the human proteome. Expert Review of Proteomics, 2017, 14, 15-29	4.2	15
120	Diastereoselective lithium salt-assisted 1,3-dipolar cycloaddition of azomethine ylides to the fullerene C60. <i>Tetrahedron</i> , 2010 , 66, 3037-3041	2.4	15
119	The proton bound association of large multifunctional group molecules: Tartaric acid esters. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 429-433	2.2	15
118	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. <i>Environmental Science & Environmental & Environ</i>	10.3	14
117	Accurate mass tag retention time database for urine proteome analysis by chromatographymass spectrometry. <i>Biochemistry (Moscow)</i> , 2010 , 75, 636-41	2.9	14
116	FT ICR investigations of chiral supramolecular propellers of dialkyltartrate trimers with methylammonium ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 167-168, 259-268		14
115	Detection of explosives on solid surfaces by thermal desorption and ambient ion/molecule reactions. <i>Chemical Communications</i> , 2005 , 1953-5	5.8	14

114	Ion Motion Stability Diagram for Distorted Square Waveform Trapping Voltage. <i>European Journal of Mass Spectrometry</i> , 2002 , 8, 191-199	1.1	14
113	Analysis of phase dependent frequency shifts in simulated FTMS transients using the filter diagonalization method. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 19-24	1.9	13
112	The youngest natural oil on earth. <i>Doklady Chemistry</i> , 2011 , 438, 144-147	0.8	13
111	Examination of molecular space and feasible structures of bioactive components of humic substances by FTICR MS data mining in ChEMBL database. <i>Scientific Reports</i> , 2019 , 9, 12066	4.9	12
110	Tracking the Magnetron Motion in FT-ICR Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1349-66	3.5	12
109	Trace analysis of organics in air by corona discharge atmospheric pressure ionization using an electrospray ionization interface. <i>European Journal of Mass Spectrometry</i> , 2004 , 10, 197-204	1.1	12
108	Label-free cervicovaginal fluid proteome profiling reflects the cervix neoplastic transformation. Journal of Mass Spectrometry, 2019 , 54, 693-703	2.2	11
107	Dichloromethane as solvent and reagent: a case study of photoinduced reactions in mixed phosphonium-iodonium ylide. <i>Journal of Physical Organic Chemistry</i> , 2018 , 31, e3844	2.1	11
106	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. <i>Doklady Biochemistry and Biophysics</i> , 2006 , 409, 223-5	0.8	11
105	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. <i>Molecular Biology</i> , 2013 , 47, 885-893	1.2	10
104	Evaluation of MALDI-TOF/TOF Mass Spectrometry Approach for Quantitative Determination of Aspartate Residue Isomerization in the Amyloid-IPeptide. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1325-1329	3.5	9
103	ESI-MS identification of the minimal zinc-binding center in natural isoforms of Eamyloid domain 1a6. <i>Molecular Biology</i> , 2013 , 47, 440-445	1.2	9
102	Signal enhancement in electrospray laser desorption/ionization mass spectrometry by using a black oxide-coated metal target and a relatively low laser fluence. <i>European Journal of Mass Spectrometry</i> , 2013 , 19, 247-52	1.1	9
101	Feature selection for OPLS discriminant analysis of cancer tissue lipidomics data. <i>Journal of Mass Spectrometry</i> , 2020 , 55, e4457	2.2	9
100	Letter: Supermetallization of peptides and proteins with tetravalent metal Th(IV). European Journal of Mass Spectrometry, 2016 , 22, 39-42	1.1	9
99	Some notes about FT ICR mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 42	1 -4 31	8
98	N-domain of angiotensin-converting enzyme hydrolyzes human and rat amyloid-(11-16) peptides as arginine specific endopeptidase potentially enhancing risk of Alzheimer's disease. <i>Scientific Reports</i> , 2018 , 8, 298	4.9	8
97	Influence of solvent on the yield and chemical composition of liquid products of hydrothermal liquefaction of Arthrospira platensis as revealed by Fourier transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2018 , 24, 363-374	1.1	8

96	Changes in urine protein composition in human organism during long term space flights. <i>Acta Astronautica</i> , 2012 , 81, 430-434	2.9	8
95	Use of models of biomacromolecule separation in AMT database generation for shotgun proteomics. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1195-202	2.9	8
94	Mass spectrometric monitoring of exhaled breath condensate proteome of a patient after lung transplantation. <i>Russian Chemical Bulletin</i> , 2010 , 59, 292-296	1.7	8
93	Mossbauer spectroscopy and magneto-optical studies of Tb-Fe films. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 2524-2526	2	8
92	Inline cartridge extraction for rapid brain tumor tissue identification by molecular profiling. <i>Scientific Reports</i> , 2019 , 9, 18960	4.9	8
91	Proteome Profiling of the Exhaled Breath Condensate after Long-Term Spaceflights. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	7
90	Hydrogen/Deuterium and O/O-Exchange Mass Spectrometry Boosting the Reliability of Compound Identification. <i>Analytical Chemistry</i> , 2020 , 92, 6877-6885	7.8	7
89	Computer simulations of the fission process of charged nanometre droplets. <i>Philosophical Magazine</i> , 2004 , 84, 157-171	1.6	7
88	The realization of a low-energy ion-scattering technique with an ion cyclotron resonance spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 260-262	2.2	7
87	The Parallel Reaction Monitoring-Parallel Accumulation-Serial Fragmentation (prm-PASEF) Approach for Multiplexed Absolute Quantitation of Proteins in Human Plasma <i>Analytical Chemistry</i> , 2022 ,	7.8	7
86	Vertical Transmission of SARS-CoV-2 in Second Trimester Associated with Severe Neonatal Pathology. <i>Viruses</i> , 2021 , 13,	6.2	7
85	Hydrogen/Deuterium Exchange Aiding Compound Identification for LC-MS and MALDI Imaging Lipidomics. <i>Analytical Chemistry</i> , 2019 , 91, 13465-13474	7.8	6
84	Early diagnosis of lung cancer based on proteome analysis of exhaled breath condensate. <i>Moscow University Chemistry Bulletin</i> , 2016 , 71, 134-139	0.5	6
83	Investigation of urine proteome of preterm newborns with respiratory pathologies. <i>Journal of Proteomics</i> , 2016 , 149, 31-37	3.9	6
82	Estimation of phosphorylation level of amyloid-beta isolated from human blood plasma: Ultrahigh-resolution mass spectrometry. <i>Molecular Biology</i> , 2014 , 48, 607-614	1.2	6
81	High-resolution mass-spectrometry analysis of peptides and proteins. <i>Russian Chemical Reviews</i> , 2012 , 81, 1051-1070	6.8	6
8o	In situ recognition of molecular chirality by mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007 , 265, 347-358	1.9	6
79	Novel possibilities in the study of isolated carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 1372-6	2.2	6

(2019-2020)

78	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020 , 92, 1447-1467	2.1	6
77	Novel Mass Spectrometric Utilities for Assisting in Oncological Surgery. <i>Russian Journal of Physical Chemistry B</i> , 2020 , 14, 483-487	1.2	6
76	Supermetallization of Substance P during electrospray ionization. <i>Mendeleev Communications</i> , 2016 , 26, 111-113	1.9	6
75	Assessment of variation of inline cartridge extraction mass spectra. <i>Journal of Mass Spectrometry</i> , 2021 , 56, e4640	2.2	6
74	Effect of magnetic field inhomogeneity on ion cyclotron motion coherence at high magnetic field. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 443-9	1.1	5
73	Quantitative ESI-MS analysis of antiarrhythmic drugs in blood plasma without chromatographic separation. <i>Pharmaceutical Chemistry Journal</i> , 2007 , 41, 166-169	0.9	5
72	Determination of the non-constant component of the ion mobility using the spectrometer of ion mobility increment. <i>European Journal of Mass Spectrometry</i> , 2006 , 12, 143-51	1.1	5
71	Analysis of non-linear ion drift in spectrometers of ion mobility increment with cylindrical drift chamber. <i>European Journal of Mass Spectrometry</i> , 2006 , 12, 153-60	1.1	5
70	Urine proteome changes associated with autonomic regulation of heart rate in cosmonauts. <i>BMC Systems Biology</i> , 2019 , 13, 17	3.5	4
69	Refinement of Compound Aromaticity in Complex Organic Mixtures by Stable Isotope Label Assisted Ultrahigh-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 9032-9038	7.8	4
68	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 164-168	3.5	4
67	Reactions on single-walled nanotubes: 1. Radiation-stimulated reactions in aqueous suspensions of single-walled carbon nanotubes in surfactant solutions. <i>High Energy Chemistry</i> , 2015 , 49, 48-52	0.9	4
66	Detection of renal and urinary tract proteins before and after spaceflight. <i>Aviation, Space, and Environmental Medicine</i> , 2013 , 84, 859-63		4
65	Light stress photodynamics of chlorophyll-binding proteins in Arabidopsis thaliana thylakoid membranes revealed by high-resolution mass spectrometric studies. <i>Russian Journal of Bioorganic Chemistry</i> , 2011 , 37, 119-31	1	4
64	Misphasing of ion motion in quadratic potential induced by space-periodic disturbance. <i>European Journal of Mass Spectrometry</i> , 2008 , 14, 1-5	1.1	4
63	Pasteur-like resolution of quasi-racemates in solid and gas phases. <i>Mendeleev Communications</i> , 2003 , 13, 97-99	1.9	4
62	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. <i>Analytical Chemistry</i> , 2021 , 93, 1249-1253	7.8	4
61	Analytical Solution for the Electric Field Inside Dynamically Harmonized FT-ICR Cell. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 778-786	3.5	3

60	Fourier transform ion cyclotron resonance mass spectrometry for the analysis of molecular composition and batch-to-batch consistency of plant-derived polyphenolic ligands developed for biomedical application. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8850	2.2	3
59	The Effect of Five-Day Dry Immersion on the Nervous and Metabolic Mechanisms of the Circulatory System. <i>Frontiers in Physiology</i> , 2020 , 11, 692	4.6	3
58	Probabilistic model applied to ion abundances in product-ion spectra: quantitative analysis of aspartic acid isomerization in peptides. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7783-7789	4.4	3
57	Reactions on single-walled nanotubes: 2. Reactions on the nanosized surface of nanotubes in liquid hydrocyanic acid. <i>High Energy Chemistry</i> , 2015 , 49, 53-57	0.9	3
56	Modelling of prebiotic synthesis and selection of peptides under isothermal conditions and thermal cycling mode. <i>Russian Chemical Bulletin</i> , 2012 , 61, 422-441	1.7	3
55	Influences of non-neutral plasma effects on analytical characteristics of the top instruments in mass spectrometry for biological research 2013 ,		3
54	Mass spectrometric study of the mechanism of the ionization of nitrogen-containing organic compounds on the surface of a molybdenum microalloyed alloy. <i>Russian Journal of Physical Chemistry B</i> , 2011 , 5, 689-700	1.2	3
53	Combined Impact of Magnetic Force and Spaceflight Conditions on Physiology <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
52	Evaluation of major historical ICR cell designs using electric field simulations. <i>Mass Spectrometry Reviews</i> , 2020 ,	11	3
51	Differential Diagnosis of Preeclampsia Based on Urine Peptidome Features Revealed by High Resolution Mass Spectrometry. <i>Diagnostics</i> , 2020 , 10,	3.8	3
50	Relation between lignin molecular profile and fungal exo-proteome during kraft lignin modification by Trametes hirsuta LE-BIN 072. <i>Bioresource Technology</i> , 2021 , 335, 125229	11	3
49	The molecular mechanisms driving physiological changes after long duration space flights revealed by quantitative analysis of human blood proteins. <i>BMC Medical Genomics</i> , 2019 , 12, 45	3.7	2
48	Application of de novo sequencing tools to study abiogenic peptide formations by tandem mass spectrometry. The case of homo-peptides from glutamic acid complicated by substitutions of hydrogen by sodium or potassium atoms. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 33-41	2.2	2
47	Photocycloaddition reaction between 7,7,9-trimethyl-6,7-dihydrofuro[3,2-f]quinoline and thymidine 5?-monophosphate. <i>High Energy Chemistry</i> , 2012 , 46, 358-362	0.9	2
46	Complexes of DNA-dependent protein kinase with single-stranded oligo-(AGGG)6: identification and possible role in modulation of ribosomal RNA transcription. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 424, 1-4	0.8	2
45	Synthesis of the Eamyloid fragment 5RHDSGY10 and its isomers. <i>Biochemistry (Moscow)</i> Supplement Series B: Biomedical Chemistry, 2008 , 2, 288-292	0.4	2
44	Victor L. Talroze: 1922-2004. Journal of the American Society for Mass Spectrometry, 2004, 15, 1517-151	93.5	2
43	The resolution obtained from low energy ion scattering using an ion cyclotron resonance spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 130, 9-14		2

42	. IEEE Transactions on Magnetics, 1994 , 30, 4425-4427	2	2
41	Oxygen Isotope Exchange Reaction for Untargeted LC-MS Analysis <i>Journal of the American Society for Mass Spectrometry</i> , 2022 ,	3.5	2
40	Structure-Preserving and Perceptually Consistent Approach for Visualization of Mass Spectrometry Imaging Datasets. <i>Analytical Chemistry</i> , 2021 , 93, 1677-1685	7.8	2
39	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18694-18703	16.4	2
38	Mass spectrometry based proteome profiling of the exhaled breath condensate for lung cancer biomarkers search. <i>Expert Review of Proteomics</i> , 2021 , 18, 637-642	4.2	2
37	Fundamentals and simulations in FT-ICR-MS 2019 , 89-111		1
36	Methodology for Urine Peptidome Analysis Based on Nano-HPLC Coupled to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2018 , 1719, 311-318	1.4	1
35	Determination of proteomic and metabolic composition of exhaled breath condensate of newborns. <i>Molecular Biology</i> , 2016 , 50, 470-473	1.2	1
34	Changes of protein profile of human urine after long-term orbital flights. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 156, 201-4	0.8	1
33	Observation of the multiple halogenation of peptides in the electrospray ionization source. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 899-905	2.2	1
32	Oxidation of phenylphosphonites with aqueous hydrogen peroxide. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 1374-1381	0.7	1
31	Application of effective potential approach to ion dynamics investigation in field asymmetric ion mobility spectrometry conditions. <i>European Journal of Mass Spectrometry</i> , 2009 , 15, 343-8	1.1	1
30	Victor Talrose: an appreciation. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 499-501	2.2	1
29	Thermomagnetic recording in the TbFe films and thermal stability of signals 1990 , 1274, 293		1
28	Increasing the reliability of compound identification in biological samples using O/O-exchange mass spectrometry <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 414, 2537	4.4	1
27	IDENTIFICATION OF BIOMARKERS OF RENAL PARENCHYMA DAMAGE IN THE URINE OF PATIENTS WITH CHRONIC PYELONEPHRITIS BY ELISA AND MASS SPECTROMETRY METHODS. <i>Medical Immunology (Russia)</i> , 2019 , 21, 341-350	0.5	1
26	Semiquantitative Proteomic Research of Protein Plasma Profile of Volunteers in 21-Day Head-Down Bed Rest. <i>Frontiers in Physiology</i> , 2020 , 11, 678	4.6	1
25	Comparison of Dimensionality Reduction Methods in Mass Spectra of Astrocytoma and Glioblastoma Tissues. <i>Mass Spectrometry</i> , 2021 , 10, A0094	1.7	1

24	Innentitelbild: Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp. (Angew. Chem. 34/2021). <i>Angewandte Chemie</i> , 2021 , 133, 18498-18498	3.6	1
23	Analysis of the Bio-oil Produced by the Hydrothermal Liquefaction of Biomass Using High-Resolution Mass Spectrometry and Isotope Exchange. <i>Energy & Description</i> 2021, 35, 12208-12215	4.1	1
22	Atmospheric pressure thermal ionization ion source for peptide analysis. <i>European Journal of Mass Spectrometry</i> , 2016 , 22, 307-311	1.1	1
21	Studying the Proteomic Composition of Expired Air Condensate in Newborns on Breathing Support. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 160, 861-3	0.8	1
20	Evaporation of the charged droplets in the heating flow tube under atmospheric pressure: observation of the H/D exchange and supermetallization. <i>Mendeleev Communications</i> , 2016 , 26, 440-445	2 ^{1.9}	1
19	Interactive Estimation of Heterogeneity from Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2021 , 93, 3706-3709	7.8	1
18	The Dynamics of EAmyloid Proteoforms Accumulation in the Brain of a 5xFAD Mouse Model of Alzheimer's Disease <i>International Journal of Molecular Sciences</i> , 2021 , 23,	6.3	1
17	The influence of different potassium and sodium ion concentrations on the rate of abiogenic peptide synthesis. <i>Paleontological Journal</i> , 2014 , 48, 339-344	0.6	O
16	Lipid Profiles of Human Brain Tumors Obtained by High-Resolution Negative Mode Ambient Mass Spectrometry. <i>Data</i> , 2021 , 6, 132	2.3	0
15	Blood Plasma Proteins Associated With Heart Rate Variability in Cosmonauts Who Have Completed Long-Duration Space Missions. <i>Frontiers in Physiology</i> , 2021 , 12, 760875	4.6	O
14	Directed Synthesis of Humic and Fulvic Derivatives with Enhanced Antioxidant Properties. <i>Agronomy</i> , 2021 , 11, 2047	3.6	0
13	Proteomic Analysis of the Urine for Diagnostics in Newborns. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 160, 867-70	0.8	O
12	Photoreactivity of humic-like polyphenol material under irradiation with different wavelengths explored by FTICR MS and deuteromethylation. <i>European Journal of Mass Spectrometry</i> , 2020 , 26, 292-3	001	O
11	Inhibition of Class A Lactamase (TEM-1) by Narrow Fractions of Humic Substances. <i>ACS Omega</i> , 2021 , 6, 23873-23883	3.9	O
10	PyFragMS-A Web Tool for the Investigation of the Collision-Induced Fragmentation Pathways <i>ACS Omega</i> , 2022 , 7, 9710-9719	3.9	О
9	Equal impact of diffusion and DNA binding rates on the potential spatial distribution of nuclear factor B transcription factor inside the nucleus. <i>Biochemistry (Moscow)</i> , 2014 , 79, 577-80	2.9	
8	New step towards artificial photosynthesis: Photogeneration of organic compounds in the inorganic carbon-hydrogen peroxide-phthalocyanine system. <i>Doklady Physical Chemistry</i> , 2013 , 453, 275	-278	
7	Optimization of ionization conditions for analysis of humic substances from natural waters using Electrospray Ionization Fourier Transform Ion Cyclotron Resonance mass spectrometry (ESI FTICR MS). <i>Moscow University Chemistry Bulletin</i> , 2010 , 65, 300-303	0.5	

LIST OF PUBLICATIONS

6 Capture of externally produced ions in an ICR cell by ion-surface collisions. *International Journal of Mass Spectrometry and Ion Processes*, **1995**, 145, 197-202

5	High-resolution ion partitioning technique for a one-section ion-cyclotron-resonance spectrometer cell. <i>Rapid Communications in Mass Spectrometry</i> , 1990 , 4, 64-66	2.2
4	Effect of the input circuit of an ICR spectrometer with fourier transformation on the position of lines in the mass spectrum. <i>Measurement Techniques</i> , 1987 , 30, 1213-1216	0.4
3	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.**. <i>Angewandte Chemie</i> , 2021 , 133, 18842-18851	3.6
2	Deuterium Bydrogen exchange reactions in peptides and polyatomic organic compounds, as studied on an ion cyclotron resonance mass spectrometer equipped with an ion trap with dynamic harmonization. <i>High Energy Chemistry</i> , 2016 , 50, 165-170	0.9
1	Characteristics of blood proteome changes in hemorrhagic syndrome after head-up tilt test during 21-day Dry Immersion. <i>Acta Astronautica</i> , 2021 , 189, 158-165	2.9