

# Evgeny N Nikolaev

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
203	The Parallel Reaction Monitoring-Parallel Accumulation-Serial Fragmentation (prm-PASEF) Approach for Multiplexed Absolute Quantitation of Proteins in Human Plasma.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	7
202	Oxygen Isotope Exchange Reaction for Untargeted LC-MS Analysis.. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2022</b> ,	3.5	2
201	Increasing the reliability of compound identification in biological samples using O/O-exchange mass spectrometry.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 414, 2537	4.4	1
200	Combined Impact of Magnetic Force and Spaceflight Conditions on Physiology.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	3
199	PyFragMS-A Web Tool for the Investigation of the Collision-Induced Fragmentation Pathways.. <i>ACS Omega</i> , <b>2022</b> , 7, 9710-9719	3.9	0
198	Lipid Profiles of Human Brain Tumors Obtained by High-Resolution Negative Mode Ambient Mass Spectrometry. <i>Data</i> , <b>2021</b> , 6, 132	2.3	0
197	Blood Plasma Proteins Associated With Heart Rate Variability in Cosmonauts Who Have Completed Long-Duration Space Missions. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 760875	4.6	0
196	Directed Synthesis of Humic and Fulvic Derivatives with Enhanced Antioxidant Properties. <i>Agronomy</i> , <b>2021</b> , 11, 2047	3.6	0
195	Structure-Preserving and Perceptually Consistent Approach for Visualization of Mass Spectrometry Imaging Datasets. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1677-1685	7.8	2
194	Vertical Transmission of SARS-CoV-2 in Second Trimester Associated with Severe Neonatal Pathology. <i>Viruses</i> , <b>2021</b> , 13,	6.2	7
193	Comparison of Dimensionality Reduction Methods in Mass Spectra of Astrocytoma and Glioblastoma Tissues. <i>Mass Spectrometry</i> , <b>2021</b> , 10, A0094	1.7	1
192	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18842-18851	3.6	
191	Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp.*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18694-18703	16.4	2
190	Innentitelbild: Gausemycins A,B: Cyclic Lipoglycopeptides from Streptomyces sp. (Angew. Chem. 34/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18498-18498	3.6	1
189	Analysis of the Bio-oil Produced by the Hydrothermal Liquefaction of Biomass Using High-Resolution Mass Spectrometry and Isotope Exchange. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 12208-12215	4.1	1
188	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> , <b>2021</b> , 93, 1249-1253	7.8	4
187	Assessment of variation of inline cartridge extraction mass spectra. <i>Journal of Mass Spectrometry</i> , <b>2021</b> , 56, e4640	2.2	6

186	Interactive Estimation of Heterogeneity from Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3706-3709	7.8	1
185	Relation between lignin molecular profile and fungal exo-proteome during kraft lignin modification by <i>Trametes hirsuta</i> LE-BIN 072. <i>Bioresource Technology</i> , <b>2021</b> , 335, 125229	11	3
184	Mass spectrometry based proteome profiling of the exhaled breath condensate for lung cancer biomarkers search. <i>Expert Review of Proteomics</i> , <b>2021</b> , 18, 637-642	4.2	2
183	Inhibition of Class A $\beta$ -Lactamase (TEM-1) by Narrow Fractions of Humic Substances. <i>ACS Omega</i> , <b>2021</b> , 6, 23873-23883	3.9	0
182	Characteristics of blood proteome changes in hemorrhagic syndrome after head-up tilt test during 21-day Dry Immersion. <i>Acta Astronautica</i> , <b>2021</b> , 189, 158-165	2.9	
181	The Dynamics of $\beta$ -Amyloid Proteoforms Accumulation in the Brain of a 5xFAD Mouse Model of Alzheimer's Disease.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 23,	6.3	1
180	Refinement of Compound Aromaticity in Complex Organic Mixtures by Stable Isotope Label Assisted Ultrahigh-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9032-9038	7.8	4
179	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> , <b>2020</b> , 34, e8850	2.2	3
178	Hydrogen/Deuterium and O/O-Exchange Mass Spectrometry Boosting the Reliability of Compound Identification. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6877-6885	7.8	7
177	The Effect of Five-Day Dry Immersion on the Nervous and Metabolic Mechanisms of the Circulatory System. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 692	4.6	3
176	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> , <b>2020</b> , 31, 164-168	3.5	4
175	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 &amp; Technology</i> , <b>2020</b> , 54, 2667-2677	10.3	14
174	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> , <b>2020</b> , 92, 1447-1467	2.1	6
173	Feature selection for OPLS discriminant analysis of cancer tissue lipidomics data. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4457	2.2	9
172	Evaluation of major historical ICR cell designs using electric field simulations. <i>Mass Spectrometry Reviews</i> , <b>2020</b> ,	11	3
171	Differential Diagnosis of Preeclampsia Based on Urine Peptidome Features Revealed by High Resolution Mass Spectrometry. <i>Diagnostics</i> , <b>2020</b> , 10,	3.8	3
170	Semiquantitative Proteomic Research of Protein Plasma Profile of Volunteers in 21-Day Head-Down Bed Rest. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 678	4.6	1
169	Novel Mass Spectrometric Utilities for Assisting in Oncological Surgery. <i>Russian Journal of Physical Chemistry B</i> , <b>2020</b> , 14, 483-487	1.2	6

168	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> , <b>2020</b> , 19, 4393-4397	5.6	59
167	Photoreactivity of humic-like polyphenol material under irradiation with different wavelengths explored by FTICR MS and deuteromethylation. <i>European Journal of Mass Spectrometry</i> , <b>2020</b> , 26, 292-300	1.1	0
166	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> , <b>2019</b> , 9, 12066	4.9	12
165	Hydrogen/Deuterium Exchange Aiding Compound Identification for LC-MS and MALDI Imaging Lipidomics. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13465-13474	7.8	6
164	Fundamentals and simulations in FT-ICR-MS		1
163	Proteome Profiling of the Exhaled Breath Condensate after Long-Term Spaceflights. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
162	Label-free cervicovaginal fluid proteome profiling reflects the cervix neoplastic transformation. <i>Journal of Mass Spectrometry</i> , <b>2019</b> , 54, 693-703	2.2	11
161	Evaluation of MALDI-TOF/TOF Mass Spectrometry Approach for Quantitative Determination of Aspartate Residue Isomerization in the Amyloid- $\beta$ Peptide. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 1325-1329	3.5	9
160	Analytical Solution for the Electric Field Inside Dynamically Harmonized FT-ICR Cell. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2019</b> , 30, 778-786	3.5	3
159	Urine proteome changes associated with autonomic regulation of heart rate in cosmonauts. <i>BMC Systems Biology</i> , <b>2019</b> , 13, 17	3.5	4
158	The molecular mechanisms driving physiological changes after long duration space flights revealed by quantitative analysis of human blood proteins. <i>BMC Medical Genomics</i> , <b>2019</b> , 12, 45	3.7	2
157	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> , <b>2019</b> , 20,	6.3	15
156	Probabilistic model applied to ion abundances in product-ion spectra: quantitative analysis of aspartic acid isomerization in peptides. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 7783-7789	4.4	3
155	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> , <b>2019</b> , 21, 341-350	0.5	1
154	Inline cartridge extraction for rapid brain tumor tissue identification by molecular profiling. <i>Scientific Reports</i> , <b>2019</b> , 9, 18960	4.9	8
153	Methodology for Urine Peptidome Analysis Based on Nano-HPLC Coupled to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1719, 311-318	1.4	1
152	N-domain of angiotensin-converting enzyme hydrolyzes human and rat amyloid- $\beta$ (1-16) peptides as arginine specific endopeptidase potentially enhancing risk of Alzheimer's disease. <i>Scientific Reports</i> , <b>2018</b> , 8, 298	4.9	8
151	Dichloromethane as solvent and reagent: a case study of photoinduced reactions in mixed phosphonium-iodonium ylide. <i>Journal of Physical Organic Chemistry</i> , <b>2018</b> , 31, e3844	2.1	11

150	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. <i>European Journal of Mass Spectrometry</i> , <b>2018</b> , 24, 363-374	1.1	8
149	Novel water-soluble lignin derivative BP-Cx-1: identification of components and screening of potential targets and. <i>Oncotarget</i> , <b>2018</b> , 9, 18578-18593	3.3	17
148	Dissection of the deep-blue autofluorescence changes accompanying amyloid fibrillation. <i>Archives of Biochemistry and Biophysics</i> , <b>2018</b> , 651, 13-20	4.1	31
147	Hydrogen/deuterium exchange in mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>2018</b> , 37, 811-853	11	55
146	Protein expression changes caused by spaceflight as measured for 18 Russian cosmonauts. <i>Scientific Reports</i> , <b>2017</b> , 7, 8142	4.9	15
145	Spaceflight induced changes in the human proteome. <i>Expert Review of Proteomics</i> , <b>2017</b> , 14, 15-29	4.2	15
144	Fourier transform ion cyclotron resonance (FT ICR) mass spectrometry: Theory and simulations. <i>Mass Spectrometry Reviews</i> , <b>2016</b> , 35, 219-58	11	113
143	Early diagnosis of lung cancer based on proteome analysis of exhaled breath condensate. <i>Moscow University Chemistry Bulletin</i> , <b>2016</b> , 71, 134-139	0.5	6
142	Investigation of urine proteome of preterm newborns with respiratory pathologies. <i>Journal of Proteomics</i> , <b>2016</b> , 149, 31-37	3.9	6
141	Determination of proteomic and metabolic composition of exhaled breath condensate of newborns. <i>Molecular Biology</i> , <b>2016</b> , 50, 470-473	1.2	1
140	Expression and characterization of a new esterase with GCSAG motif from a permafrost metagenomic library. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92, fiw046	4.3	28
139	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> , <b>2016</b> , 141, 2426-34	5	33
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> , <b>2016</b> , 51, 430-6	2.2	22
137	Atmospheric pressure thermal ionization ion source for peptide analysis. <i>European Journal of Mass Spectrometry</i> , <b>2016</b> , 22, 307-311	1.1	1
136	Supermetallization of Substance P during electrospray ionization. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 111-113	1.9	6
135	Proteomic Analysis of the Urine for Diagnostics in Newborns. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2016</b> , 160, 867-70	0.8	0
134	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> , <b>2016</b> , 404, 29-34	1.9	19
133	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> , <b>2016</b> , 71, 372-378	1.1	17

132	DeuteriumHydrogen 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> , <b>2016</b> , 50, 165-170	0.9	
131	Letter: Supermetallization of peptides and proteins with tetravalent metal Th(IV). <i>European Journal of Mass Spectrometry</i> , <b>2016</b> , 22, 39-42	1.1	9
130	Studying the Proteomic Composition of Expired Air Condensate in Newborns on Breathing Support. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2016</b> , 160, 861-3	0.8	1
129	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> , <b>2016</b> , 26, 440-442	1.9	1
128	Molecular compositions of humic acids extracted from leonardite and lignite as determined by Fourier transform ion cyclotron resonance mass spectrometry. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 446-448	1.9	19
127	Permanent proteins in the urine of healthy humans during the Mars-500 experiment. <i>Journal of Bioinformatics and Computational Biology</i> , <b>2015</b> , 13, 1540001	1	16
126	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> , <b>2015</b> , 140, 4708-19	5	38
125	A novel direct spray-from-tissue ionization method for mass spectrometric analysis of human brain tumors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 7797-805	4.4	33
124	Changes in spectral properties and composition of lipofuscin fluorophores from human-retinal-pigment epithelium with age and pathology. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 1075-88	4.4	24
123	Some notes about FT ICR mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2015</b> , 377, 421-431	4.3	8
122	Effect of magnetic field inhomogeneity on ion cyclotron motion coherence at high magnetic field. <i>European Journal of Mass Spectrometry</i> , <b>2015</b> , 21, 443-9	1.1	5
121	Letter: Observation of the 16O/18O exchange during electrospray ionization. <i>European Journal of Mass Spectrometry</i> , <b>2015</b> , 21, 109-13	1.1	21
120	Letter: Analytical potential of the in-electrospray ionization source hydrogen/deuterium exchange for the investigation of oligonucleotides. <i>European Journal of Mass Spectrometry</i> , <b>2015</b> , 21, 59-63	1.1	20
119	Observation of the multiple halogenation of peptides in the electrospray ionization source. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 899-905	2.2	1
118	Supermetallization of peptides and proteins during electrospray ionization. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 1079-1087	2.2	25
117	Conformations of cationized linear oligosaccharides revealed by FTMS combined with in-ESI H/D exchange. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 1150-6	2.2	26
116	Tracking the Magnetron Motion in FT-ICR Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1349-66	3.5	12
115	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> , <b>2015</b> , 49, 48-52	0.9	4



114	Ubiquitin-independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. <i>FASEB Journal</i> , <b>2015</b> , 29, 1901-13	0.9	32
113	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> , <b>2015</b> , 50, 49-55	2.2	28
112	Reactions on single-walled nanotubes: 2. Reactions on the nanosized surface of nanotubes in liquid hydrocyanic acid. <i>High Energy Chemistry</i> , <b>2015</b> , 49, 53-57	0.9	3
111	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> , <b>2014</b> , 28, 33-41	2.2	2
110	Estimation of phosphorylation level of amyloid-beta isolated from human blood plasma: Ultrahigh-resolution mass spectrometry. <i>Molecular Biology</i> , <b>2014</b> , 48, 607-614	1.2	6
109	The influence of different potassium and sodium ion concentrations on the rate of abiogenic peptide synthesis. <i>Paleontological Journal</i> , <b>2014</b> , 48, 339-344	0.6	0
108	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> , <b>2014</b> , 49, 989-94	2.2	36
107	In-ESI source hydrogen/deuterium exchange of carbohydrate ions. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2595-608	2.0	47
106	Enumeration of non-labile oxygen atoms in dissolved organic matter by use of $^{18}\text{O}/^{16}\text{O}$ exchange and Fourier transform ion-cyclotron resonance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 6655-64	4.4	40
105	Twelve million resolving power on 4.7 T Fourier transform ion cyclotron resonance instrument with dynamically harmonized cell--observation of fine structure in peptide mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 790-9	3.5	26
104	Equal impact of diffusion and DNA binding rates on the potential spatial distribution of nuclear factor $\kappa$ B transcription factor inside the nucleus. <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 577-80	2.9	
103	Molecular mapping of sorbent selectivities with respect to isolation of Arctic dissolved organic matter as measured by Fourier transform mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7461-8	10.3	67
102	Separation of tautomeric forms of [2-nitrophenylglucuronol-H]- by an in-electrospray ionization source hydrogen/deuterium exchange approach. <i>European Journal of Mass Spectrometry</i> , <b>2014</b> , 20, 345-9	1.1	25
101	Time-course human urine proteomics in space-flight simulation experiments. <i>BMC Genomics</i> , <b>2014</b> , 15 Suppl 12, S2	4.5	20
100	ESI-MS identification of the minimal zinc-binding center in natural isoforms of $\alpha$ -amyloid domain 1-16. <i>Molecular Biology</i> , <b>2013</b> , 47, 440-445	1.2	9
99	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> , <b>2013</b> , 85, 11007-13	7.8	53
98	New step towards artificial photosynthesis: Photogeneration of organic compounds in the inorganic carbon-hydrogen peroxide-phthalocyanine system. <i>Doklady Physical Chemistry</i> , <b>2013</b> , 453, 275-278	9.8	28
97	Changes of protein profile of human urine after long-term orbital flights. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2013</b> , 156, 201-4	0.8	1

96	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. <i>Molecular Biology</i> , <b>2013</b> , 47, 885-893	1.2	10
95	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> , <b>2013</b> , 110, 1243-8	11.5	69
94	Simple atmospheric hydrogen/deuterium exchange method for enumeration of labile hydrogens by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5330-4	7.8	69
93	Potassium ions are more effective than sodium ions in salt induced peptide formation. <i>Origins of Life and Evolution of Biospheres</i> , <b>2013</b> , 43, 109-17	1.5	26
92	Influences of non-neutral plasma effects on analytical characteristics of the top instruments in mass spectrometry for biological research <b>2013</b> ,		3
91	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> , <b>2013</b> , 19, 247-52	1.1	9
90	Detection of renal and urinary tract proteins before and after spaceflight. <i>Aviation, Space, and Environmental Medicine</i> , <b>2013</b> , 84, 859-63		4
89	Detection of renal tissue and urinary tract proteins in the human urine after space flight. <i>PLoS ONE</i> , <b>2013</b> , 8, e71652	3.7	19
88	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> , <b>2012</b> , 23, 375-84	3.5	42
87	Photocycloaddition reaction between 7,7,9-trimethyl-6,7-dihydrofuro[3,2-f]quinoline and thymidine 5'-monophosphate. <i>High Energy Chemistry</i> , <b>2012</b> , 46, 358-362	0.9	2
86	Ambient molecular imaging of dry fungus surface by electrospray laser desorption ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , <b>2012</b> , 325-327, 172-182	1.9	32
85	Modelling of prebiotic synthesis and selection of peptides under isothermal conditions and thermal cycling mode. <i>Russian Chemical Bulletin</i> , <b>2012</b> , 61, 422-441	1.7	3
84	Analysis of phase dependent frequency shifts in simulated FTMS transients using the filter diagonalization method. <i>International Journal of Mass Spectrometry</i> , <b>2012</b> , 325-327, 19-24	1.9	13
83	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> , <b>2012</b> , 23, 2198-207	3.5	40
82	Oxidation of phenylphosphonites with aqueous hydrogen peroxide. <i>Russian Journal of General Chemistry</i> , <b>2012</b> , 82, 1374-1381	0.7	1
81	High-resolution mass-spectrometry analysis of peptides and proteins. <i>Russian Chemical Reviews</i> , <b>2012</b> , 81, 1051-1070	6.8	6
80	Changes in urine protein composition in human organism during long term space flights. <i>Acta Astronautica</i> , <b>2012</b> , 81, 430-434	2.9	8
79	Fine structure in isotopic peak distributions measured using a dynamically harmonized Fourier transform ion cyclotron resonance cell at 7 T. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 2275-83	7.8	52



78	Absorption-mode spectra on the dynamically harmonized Fourier transform ion cyclotron resonance cell. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 2021-6	2.2	31
77	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> , <b>2012</b> , 23, 977-87	3.5	35
76	Capabilities of MS for analytical quantitative determination of the ratio of $\beta$ - and $\Delta$ -Asp7 isoforms of the amyloid- $\beta$ -peptide in binary mixtures. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 3205-10	7.8	28
75	The youngest natural oil on earth. <i>Doklady Chemistry</i> , <b>2011</b> , 438, 144-147	0.8	13
74	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> , <b>2011</b> , 37, 119-31	1	4
73	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> , <b>2011</b> , 5, 689-700	1.2	3
72	Phosphorylation and nitration levels of photosynthetic proteins are conversely regulated by light stress. <i>Plant Molecular Biology</i> , <b>2011</b> , 77, 461-73	4.6	39
71	Initial experimental characterization of a new ultra-high resolution FTICR cell with dynamic harmonization. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 1125-33	3.5	122
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