

Yury I Kostyukevich

List of Publications by Year in descending order

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93
papers

1,649
citations

279798

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345221

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docs citations

93
times ranked

1408
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier transform ion cyclotron resonance (FT ICR) mass spectrometry: Theory and simulations. <i>Mass Spectrometry Reviews</i> , 2016, 35, 219-258.	5.4	147
2	Molecular Mapping of Sorbent Selectivities with Respect to Isolation of Arctic Dissolved Organic Matter as Measured by Fourier Transform Mass Spectrometry. <i>Environmental Science & Technology</i> , 2014, 48, 7461-7468.	10.0	86
3	Simple Atmospheric Hydrogen/Deuterium Exchange Method for Enumeration of Labile Hydrogens by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 5330-5334.	6.5	80
4	Hydrogen/deuterium exchange in mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018, 37, 811-853.	5.4	80
5	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, 11007-11013.	6.5	60
6	In-ESI Source Hydrogen/Deuterium Exchange of Carbohydrate Ions. <i>Analytical Chemistry</i> , 2014, 86, 2595-2600.	6.5	55
7	Enumeration of non-labile oxygen atoms in dissolved organic matter by use of ¹⁶ O/ ¹⁸ O exchange and Fourier transform ion-cyclotron resonance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6655-6664.	3.7	46
8	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, 2198-2207.	2.8	45
9	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, 4708-4719.	3.5	43
10	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, 989-994.	1.6	40
11	Enumeration of carboxyl groups carried on individual components of humic systems using deuteromethylation and Fourier transform mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2477-2488.	3.7	38
12	A novel direct spray-from-tissue ionization method for mass spectrometric analysis of human brain tumors. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7797-7805.	3.7	37
13	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, 2426-2434.	3.5	35
14	Twelve Million Resolving Power on 4.7 Å 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> , 2014, 25, 790-799.	2.8	32
15	Conformations of cationized linear oligosaccharides revealed by FTMS combined with in-ESI H/D exchange. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1150-1156.	1.6	30
16	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.	1.6	30
17	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.	1.6	30
18	Supermetallization of peptides and proteins during electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1079-1087.	1.6	29

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19	Detecting cooking state of grilled chicken by electronic nose and computer vision techniques. Food Chemistry, 2021, 345, 128747.	8.2	28
20	i-Clamp phenoxazine for the fine tuning of DNA i-motif stability. Nucleic Acids Research, 2018, 46, 2751-2764.	14.5	26
21	Machine learning to predict retention time of small molecules in nano-HPLC. Analytical and Bioanalytical Chemistry, 2020, 412, 7767-7776.	3.7	26
22	Letter: Separation of Tautomeric Forms of [2-Nitrofloroglucinol-H] ⁺ by an in-Electrospray Ionization Source Hydrogen/Deuterium Exchange Approach. European Journal of Mass Spectrometry, 2014, 20, 345-349.	1.0	25
23	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
24	Nybomycin-producing Streptomyces isolated from carpenter ant Camponotus vagus. Biochimie, 2019, 160, 93-99.	2.6	25
25	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
26	Investigation of bio-oil produced by hydrothermal liquefaction of food waste using ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry. European Journal of Mass Spectrometry, 2018, 24, 116-123.	1.0	24
27	Genetic diversity of SAD and FAD genes responsible for the fatty acid composition in flax cultivars and lines. BMC Plant Biology, 2020, 20, 301.	3.6	22
28	Letter: Observation of the ¹⁶ O/ ¹⁸ O Exchange during Electrospray Ionization. European Journal of Mass Spectrometry, 2015, 21, 109-113.	1.0	21
29	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
30	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
31	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
32	The investigation of the bio-oil produced by hydrothermal liquefaction of <i>Spirulina platensis</i> using ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry. European Journal of Mass Spectrometry, 2017, 23, 83-88.	1.0	18
33	Hydrogen/Deuterium Exchange Aiding Compound Identification for LC-MS and MALDI Imaging Lipidomics. Analytical Chemistry, 2019, 91, 13465-13474.	6.5	18
34	Remote detection of explosives using field asymmetric ion mobility spectrometer installed on multicopter. Journal of Mass Spectrometry, 2017, 52, 777-782.	1.6	16
35	Synthesis of oligonucleotides containing novel G-clamp analogue with C8-tethered group in phenoxazine ring: Implication to qPCR detection of the low-copy Kemerovo virus dsRNA. Bioorganic and Medicinal Chemistry, 2017, 25, 3597-3605.	3.0	15
36	Hydrogen/Deuterium and ¹⁶ O/ ¹⁸ O-Exchange Mass Spectrometry Boosting the Reliability of Compound Identification. Analytical Chemistry, 2020, 92, 6877-6885.	6.5	14

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37	Hydrothermal treatment of organic waste. Russian Journal of Applied Chemistry, 2017, 90, 1285-1292.	0.5	13
38	Separation of Benzoic and Unconjugated Acidic Components of Leonardite Humic Material Using Sequential Solid-Phase Extraction at Different pH Values as Revealed by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Correlation Nuclear Magnetic Resonance Spectroscopy. Journal of Agricultural and Food Chemistry, 2018, 66, 12179-12187.	5.2	13
39	High-Resolution Mass Spectrometry Study of the Bio-Oil Samples Produced by Thermal Liquefaction of Microalgae in Different Solvents. Journal of the American Society for Mass Spectrometry, 2019, 30, 605-614.	2.8	13
40	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. Molecular Biology, 2013, 47, 885-893.	1.3	12
41	Synthesis of carboxylated styrene polymer for internal calibration of Fourier transform ion cyclotron resonance mass-spectrometry of humic substances. European Journal of Mass Spectrometry, 2017, 23, 156-161.	1.0	12
42	Ion Source Multiplexing on a Single Mass Spectrometer. Analytical Chemistry, 2018, 90, 3576-3583.	6.5	12
43	Proteomic and lipidomic analysis of mammoth bone by high-resolution tandem mass spectrometry coupled with liquid chromatography. European Journal of Mass Spectrometry, 2018, 24, 411-419.	1.0	12
44	Investigation of urine proteome of preterm newborns with respiratory pathologies. Journal of Proteomics, 2016, 149, 31-37.	2.4	11
45	Microprobe for the Thermal Analysis of Crude Oil Coupled to Photoionization Fourier Transform Mass Spectrometry. Analytical Chemistry, 2018, 90, 8756-8763.	6.5	11
46	Speciation of structural fragments in crude oil by means of isotope exchange in near-critical water and Fourier transform mass spectrometry. Analytical and Bioanalytical Chemistry, 2019, 411, 3331-3339.	3.7	11
47	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
48	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
49	Supermetallization of Peptides and Proteins with Tetravalent Metal Th(IV). European Journal of Mass Spectrometry, 2016, 22, 39-42.	1.0	9
50	Analytical Description of the H/D Exchange Kinetic of Macromolecule. Analytical Chemistry, 2018, 90, 5116-5121.	6.5	9
51	Structural investigation of coal humic substances by selective isotopic exchange and high-resolution mass spectrometry. Faraday Discussions, 2019, 218, 172-190.	3.2	9
52	Transfer learning for small molecule retention predictions. Journal of Chromatography A, 2021, 1644, 462119.	3.7	9
53	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
54	Thermal dissociation of ions limits the degree of the gas-phase H/D exchange at the atmospheric pressure. Journal of Mass Spectrometry, 2017, 52, 204-209.	1.6	8

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55	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> , 2018, 24, 363-374.	1.0	8
56	Hydrothermal Liquefaction of <i>Arthrospira platensis</i> for Bio-Oil Production and Study of Chemical Composition for Bio-Oil and Its Gasoline Fraction. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 1480-1486.	0.5	8
57	Speciation of organosulfur compounds in carbonaceous chondrites. <i>Scientific Reports</i> , 2021, 11, 7410.	3.3	8
58	Peculiarities of Data Interpretation upon Direct Tissue Analysis by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 123-126.	1.0	7
59	Feature selection algorithm for spray-from-tissue mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 237-241.	1.0	7
60	Oxygen Isotope Exchange Reaction for Untargeted LC-MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 390-398.	2.8	7
61	PyFragMS – A Web Tool for the Investigation of the Collision-Induced Fragmentation Pathways. <i>ACS Omega</i> , 2022, 7, 9710-9719.	3.5	7
62	Supermetallization of Substance P during electrospray ionization. <i>Mendeleev Communications</i> , 2016, 26, 111-113.	1.6	6
63	Thermal dissociation and H/D exchange of streptavidin tetramers at atmospheric pressure. <i>International Journal of Mass Spectrometry</i> , 2018, 427, 100-106.	1.5	6
64	Chemical Composition of Bio-oil Obtained via Hydrothermal Liquefaction of <i>Arthrospira platensis</i> Biomass. <i>High Temperature</i> , 2018, 56, 915-920.	1.0	6
65	Analysis of the Bio-oil Produced by the Hydrothermal Liquefaction of Biomass Using High-Resolution Mass Spectrometry and Isotope Exchange. <i>Energy & Fuels</i> , 2021, 35, 12208-12215.	5.1	6
66	Effect of Magnetic Field Inhomogeneity on Ion Cyclotron Motion Coherence at High Magnetic Field. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 443-449.	1.0	5
67	CID fragmentation, H/D exchange and supermetallization of Barnase-Barstar complex. <i>Scientific Reports</i> , 2017, 7, 6176.	3.3	5
68	Increasing the reliability of compound identification in biological samples using ¹⁶ O/ ¹⁸ O-exchange mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2537.	3.7	5
69	Thermal Desorption Combined with Atmospheric Pressure Photo Ionization for the Analysis of Volatile Compounds and its Possible Applications. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 313-317.	1.0	4
70	Investigation of the ozonation products of natural complex mixtures using Fourier transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 152-155.	1.0	4
71	Analysis of ¹⁶ O/ ¹⁸ O and H/D Exchange Reactions between Carbohydrates and Heavy Water Using High-Resolution Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3585.	4.1	4
72	Localization of zinc binding sites of Ab1-16 with English mutation during formation of monomers and dimers with zinc. <i>International Journal of Mass Spectrometry</i> , 2016, 409, 67-72.	1.5	3

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73	Structure-Preserving and Perceptually Consistent Approach for Visualization of Mass Spectrometry Imaging Datasets. <i>Analytical Chemistry</i> , 2021, 93, 1677-1685.	6.5	3
74	Letter: Electron-Capture Dissociation and Collision-Induced Dissociation Fragmentation of the Supermetallized Complexes of Substance P with Potassium, Cesium and Silver. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 91-95.	1.0	2
75	Structural Investigation of Biomacromolecules Using Ultrahigh-Resolution Mass Spectrometry and Isotope Exchange. <i>Russian Journal of Physical Chemistry B</i> , 2018, 12, 599-604.	1.3	2
76	Fundamentals and simulations in FT-ICR-MS. , 2019, , 89-111.		2
77	Relative quantitation of phosphatidylcholines with interfered masses of protonated and sodiated molecules by tandem and Fourier-transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 259-264.	1.0	2
78	Amine additives for improved in-ESI H/D exchange. <i>Analyst</i> , The, 0, , .	3.5	2
79	Dependence of the molecular iodine B-state predissociation induced by a femtosecond laser pulse on pulse phase modulation. <i>Quantum Electronics</i> , 2011, 41, 1104-1108.	1.0	1
80	Observation of the multiple halogenation of peptides in the electrospray ionization source. <i>Journal of Mass Spectrometry</i> , 2015, 50, 899-905.	1.6	1
81	Atmospheric Pressure Thermal Ionization Ion Source for Peptide Analysis. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 307-311.	1.0	1
82	Proteomic Analysis of the Urine for Diagnostics in Newborns. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 867-870.	0.8	1
83	Studying the Proteomic Composition of Expired Air Condensate in Newborns on Breathing Support. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 861-863.	0.8	1
84	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, 440-442.	1.6	1
85	The use of H/D exchange for secondary structure characterization of supermetallized complexes of ubiquitin with cerium(III). <i>Russian Journal of Bioorganic Chemistry</i> , 2016, 42, 484-490.	1.0	1
86	Static harmonization of dynamically harmonized Fourier transform ion cyclotron resonance cell. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 197-201.	1.0	1
87	Effect of ion clouds micromotion on measured signal in Fourier transform ion cyclotron resonance: Computer simulation. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 162-166.	1.0	1
88	Investigation of the archeological remains using ultrahigh resolution mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 391-396.	1.0	1
89	Investigation of Ion-Molecular Complexes of beta-Cyclodextrin with Proteins and Metals in Gas Phase. <i>Macrocyclics</i> , 2017, 10, 110-116.	0.5	1
90	Deuterium-hydrogen 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	0

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91	Application of deuterium-hydrogen exchange to study the secondary structure of oligonucleotide ions in a gas phase. High Energy Chemistry, 2016, 50, 427-432.	0.9	0
92	Chemical and fractional composition of bio-oil obtained from <i>Arthrospira platensis</i> by hydrothermal liquefaction. IOP Conference Series: Earth and Environmental Science, 2018, 168, 012039.	0.3	0
93	Methylene Group Transfer in Carbonyl Compounds Discovered in-silico and Detected Experimentally. ChemPhysChem, 2019, 20, 361-365.	2.1	0