

Yury I Kostyukevich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3332196/publications.pdf>

Version: 2024-02-01

93
papers

1,649
citations

279798

23
h-index

345221

36
g-index

93
all docs

93
docs citations

93
times ranked

1408
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	PyFragMS [®] – A Web Tool for the Investigation of the Collision-Induced Fragmentation Pathways. <i>ACS Omega</i> , 2022, 7, 9710-9719.	3.5	7
4	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
5	Detecting cooking state of grilled chicken by electronic nose and computer vision techniques. <i>Food Chemistry</i> , 2021, 345, 128747.	8.2	28
6	Speciation of organosulfur compounds in carbonaceous chondrites. <i>Scientific Reports</i> , 2021, 11, 7410.	3.3	8
7	Transfer learning for small molecule retention predictions. <i>Journal of Chromatography A</i> , 2021, 1644, 462119.	3.7	9
8	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
9	Structure-Preserving and Perceptually Consistent Approach for Visualization of Mass Spectrometry Imaging Datasets. <i>Analytical Chemistry</i> , 2021, 93, 1677-1685.	6.5	3
10	Machine learning to predict retention time of small molecules in nano-HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7767-7776.	3.7	26
11	Genetic diversity of SAD and FAD genes responsible for the fatty acid composition in flax cultivars and lines. <i>BMC Plant Biology</i> , 2020, 20, 301.	3.6	22
12	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.	6.5	10
13	Hydrogen/Deuterium and ¹⁶ O/ ¹⁸ O-Exchange Mass Spectrometry Boosting the Reliability of Compound Identification. <i>Analytical Chemistry</i> , 2020, 92, 6877-6885.	6.5	14
14	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.	3.3	25
15	Hydrogen/Deuterium Exchange Aiding Compound Identification for LC-MS and MALDI Imaging Lipidomics. <i>Analytical Chemistry</i> , 2019, 91, 13465-13474.	6.5	18
16	Fundamentals and simulations in FT-ICR-MS. , 2019, , 89-111.		2
17	Structural investigation of coal humic substances by selective isotopic exchange and high-resolution mass spectrometry. <i>Faraday Discussions</i> , 2019, 218, 172-190.	3.2	9
18	Speciation of structural fragments in crude oil by means of isotope exchange in near-critical water and Fourier transform mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3331-3339.	3.7	11

#	ARTICLE	IF	CITATIONS
19	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
20	Investigation of the archeological remains using ultrahigh resolution mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 391-396.	1.0	1
21	Nybomycin-producing <i>Streptomyces</i> isolated from carpenter ant <i>Camponotus vagus</i> . <i>Biochimie</i> , 2019, 160, 93-99.	2.6	25
22	High-Resolution Mass Spectrometry Study of the Bio-Oil Samples Produced by Thermal Liquefaction of Microalgae in Different Solvents. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 605-614.	2.8	13
23	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
24	Methylene Group Transfer in Carbonyl Compounds Discovered in $\text{in}^{\text{in}}\text{silico}$ and Detected Experimentally. <i>ChemPhysChem</i> , 2019, 20, 361-365.	2.1	0
25	i-Clamp phenoxazine for the fine tuning of DNA i-motif stability. <i>Nucleic Acids Research</i> , 2018, 46, 2751-2764.	14.5	26
26	Ion Source Multiplexing on a Single Mass Spectrometer. <i>Analytical Chemistry</i> , 2018, 90, 3576-3583.	6.5	12
27	Analytical Description of the H/D Exchange Kinetic of Macromolecule. <i>Analytical Chemistry</i> , 2018, 90, 5116-5121.	6.5	9
28	Investigation of bio-oil produced by hydrothermal liquefaction of food waste using ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 116-123.	1.0	24
29	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
30	Chemical and fractional composition of bio-oil obtained from <i>Arthrospira platensis</i> by hydrothermal liquefaction. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 168, 012039.	0.3	0
31	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
32	Proteomic and lipidomic analysis of mammoth bone by high-resolution tandem mass spectrometry coupled with liquid chromatography. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 411-419.	1.0	12
33	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
34	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. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 12179-12187.	5.2	13
35	Microprobe for the Thermal Analysis of Crude Oil Coupled to Photoionization Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 8756-8763.	6.5	11
36	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

#	ARTICLE	IF	CITATIONS
37	Hydrogen/deuterium exchange in mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018, 37, 811-853.	5.4	80
38	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
39	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. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 83-88.	1.0	18
40	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. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3597-3605.	3.0	15
41	Thermal dissociation of ions limits the degree of the gas-phase H/D exchange at the atmospheric pressure. <i>Journal of Mass Spectrometry</i> , 2017, 52, 204-209.	1.6	8
42	Synthesis of carboxylated styrene polymer for internal calibration of Fourier transform ion cyclotron resonance mass-spectrometry of humic substances. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 156-161.	1.0	12
43	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
44	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
45	CID fragmentation, H/D exchange and supermetallization of Barnase-Barstar complex. <i>Scientific Reports</i> , 2017, 7, 6176.	3.3	5
46	Remote detection of explosives using field asymmetric ion mobility spectrometer installed on multicopter. <i>Journal of Mass Spectrometry</i> , 2017, 52, 777-782.	1.6	16
47	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
48	Feature selection algorithm for spray-from-tissue mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 237-241.	1.0	7
49	Hydrothermal treatment of organic waste. <i>Russian Journal of Applied Chemistry</i> , 2017, 90, 1285-1292.	0.5	13
50	Investigation of Ion-Molecular Complexes of beta-Cyclodextrin with Proteins and Metals in Gas Phase. <i>Macroheterocycles</i> , 2017, 10, 110-116.	0.5	1
51	Fourier transform ion cyclotron resonance (FT ICR) mass spectrometry: Theory and simulations. <i>Mass Spectrometry Reviews</i> , 2016, 35, 219-258.	5.4	147
52	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, 430-436.	1.6	24
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	Atmospheric Pressure Thermal Ionization Ion Source for Peptide Analysis. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 307-311.	1.0	1
56	Supermetallization of Substance P during electrospray ionization. <i>Mendeleev Communications</i> , 2016, 26, 111-113.	1.6	6
57	Proteomic Analysis of the Urine for Diagnostics in Newborns. <i>Bulletin of Experimental Biology and Medicine</i> , 2016, 160, 867-870.	0.8	1
58	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.	1.5	19
59	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.	0.9	19
60	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
61	Supermetallization of Peptides and Proteins with Tetravalent Metal Th(IV). <i>European Journal of Mass Spectrometry</i> , 2016, 22, 39-42.	1.0	9
62	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
63	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
64	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
65	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
66	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
67	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
68	Application of deuterium-hydrogen exchange to study the secondary structure of oligonucleotide ions in a gas phase. <i>High Energy Chemistry</i> , 2016, 50, 427-432.	0.9	0
69	Investigation of urine proteome of preterm newborns with respiratory pathologies. <i>Journal of Proteomics</i> , 2016, 149, 31-37.	2.4	11
70	High desolvation temperature facilitates the ESI-source H/D exchange at non-labile sites of hydroxybenzoic acids and aromatic amino acids. <i>Analyst</i> , 2016, 141, 2426-2434.	3.5	35
71	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
72	Letter: Observation of the $^{16}\text{O}/^{18}\text{O}$ Exchange during Electrospray Ionization. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 109-113.	1.0	21

#	ARTICLE	IF	CITATIONS
73	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.	1.0	20
74	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
75	Supermetallization of peptides and proteins during electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1079-1087.	1.6	29
76	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
77	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
78	Synthesis of model humic substances: a mechanistic study using controllable H/D exchange and Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst</i> , 2015, 140, 4708-4719.	3.5	43
79	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
80	Estimation of phosphorylation level of amyloid-beta isolated from human blood plasma: Ultrahigh-resolution mass spectrometry. <i>Molecular Biology</i> , 2014, 48, 607-614.	1.3	8
81	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
82	In-ESI Source Hydrogen/Deuterium Exchange of Carbohydrate Ions. <i>Analytical Chemistry</i> , 2014, 86, 2595-2600.	6.5	55
83	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
84	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
85	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
86	Letter: Separation of Tautomeric Forms of [2-Nitrophenylglucosyl-H] ⁺ by an in-Electrospray Ionization Source Hydrogen/Deuterium Exchange Approach. <i>European Journal of Mass Spectrometry</i> , 2014, 20, 345-349.	1.0	25
87	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
88	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. <i>Molecular Biology</i> , 2013, 47, 885-893.	1.3	12
89	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
90	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, 247-252.	1.0	9

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	Amine additives for improved in-ESI H/D exchange. <i>Analyst</i> , The, 0, , .	3.5	2