

Konstantin Barylyuk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4109789/publications.pdf>

Version: 2024-02-01

37
papers

1,118
citations

430754

18
h-index

434063

31
g-index

42
all docs

42
docs citations

42
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptamer-ligand recognition studied by native ion mobility-mass spectrometry. <i>Talanta</i> , 2021, 224, 121917.	2.9	14
2	Molecular characterization of the conoid complex in <i>Toxoplasma</i> reveals its conservation in all apicomplexans, including <i>Plasmodium</i> species. <i>PLoS Biology</i> , 2021, 19, e3001081.	2.6	56
3	A Prioritized and Validated Resource of Mitochondrial Proteins in <i>Plasmodium</i> Identifies Unique Biology. <i>MSphere</i> , 2021, 6, e0061421.	1.3	16
4	A Comprehensive Subcellular Atlas of the <i>Toxoplasma</i> Proteome via hyperLOPIT Provides Spatial Context for Protein Functions. <i>Cell Host and Microbe</i> , 2020, 28, 752-766.e9.	5.1	201
5	Global mapping of protein subcellular location in apicomplexans: the parasite as we've never seen it before. <i>Access Microbiology</i> , 2019, 1, .	0.2	5
6	Charge-State-Dependent Variation of Signal Intensity Ratio between Unbound Protein and Protein-Ligand Complex in Electrospray Ionization Mass Spectrometry: The Role of Solvent-Accessible Surface Area. <i>Analytical Chemistry</i> , 2018, 90, 5521-5528.	3.2	11
7	Native Electrospray Ionization Mass Spectrometry Reveals Multiple Facets of Aptamer-Ligand Interactions: From Mechanism to Binding Constants. <i>Journal of the American Chemical Society</i> , 2018, 140, 7486-7497.	6.6	42
8	Aryl bis-sulfonamides bind to the active site of a homotrimeric isoprenoid biosynthesis enzyme IspF and extract the essential divalent metal cation cofactor. <i>Chemical Science</i> , 2018, 9, 5976-5986.	3.7	8
9	Insight into Signal Response of Protein Ions in Native ESI-MS from the Analysis of Model Mixtures of Covalently Linked Protein Oligomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1863-1875.	1.2	12
10	Spontaneous non-canonical assembly of CcmK hexameric components from $\hat{\text{I}}^2$ -carboxysome shells of cyanobacteria. <i>PLoS ONE</i> , 2017, 12, e0185109.	1.1	17
11	On the preservation of non-covalent protein complexes during electrospray ionization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150377.	1.6	6
12	Dynamic Assembly and Disassembly of Functional $\hat{\text{I}}^2$ -Endorphin Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2016, 138, 846-856.	6.6	71
13	Aryl Bis-Sulfonamide Inhibitors of IspF from <i>Arabidopsis thaliana</i> and <i>Plasmodium falciparum</i> . <i>ChemMedChem</i> , 2015, 10, 2090-2098.	1.6	15
14	Determination of thermodynamic and kinetic properties of biomolecules by mass spectrometry. <i>Current Opinion in Biotechnology</i> , 2015, 31, 65-72.	3.3	33
15	Ion mobility spectrometry coupled to laser-induced fluorescence for probing the electronic structure and conformation of gas-phase ions. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1215-1219.	0.4	5
16	Mass Spectrometry Research at the Laboratory for Organic Chemistry, ETH Zurich. <i>Chimia</i> , 2014, 68, 119.	0.3	0
17	Determination of Protein-Ligand Binding Constants of a Cooperatively Regulated Tetrameric Enzyme Using Electrospray Mass Spectrometry. <i>ACS Chemical Biology</i> , 2014, 9, 218-226.	1.6	46
18	Fluorescence resonance energy transfer of gas-phase ions under ultra high vacuum and ambient conditions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8911-8920.	1.3	20

#	ARTICLE	IF	CITATIONS
19	Direct monitoring of protein-protein inhibition using nano electrospray ionization mass spectrometry. <i>Chemical Science</i> , 2014, 5, 2794-2803.	3.7	23
20	The production of recombinant ¹⁵ N, ¹³ C-labelled somatostatin 14 for NMR spectroscopy. <i>Protein Expression and Purification</i> , 2014, 99, 78-86.	0.6	1
21	Mass Discrimination in High-Mass MALDI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1396-1404.	1.2	15
22	A New, Modular Mass Calibrant for High-Mass MALDI-MS. <i>Analytical Chemistry</i> , 2013, 85, 3425-3432.	3.2	20
23	Native Biomolecules in the Gas Phase? The Case of Green Fluorescent Protein. <i>ChemPhysChem</i> , 2013, 14, 929-935.	1.0	26
24	Ion Mobility Spectrometry Coupled to Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2013, 85, 39-43.	3.2	17
25	DNA Oligonucleotides: A Model System with Tunable Binding Strength to Study Monomer-Dimer Equilibria with Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 11902-11912.	3.2	14
26	Gas-phase basicity of several common MALDI matrices measured by a simple experimental approach. <i>RSC Advances</i> , 2012, 2, 1962.	1.7	5
27	Probing the mechanisms of ambient ionization by laser-induced fluorescence spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1567-1572.	0.7	15
28	Compelling Advantages of Negative Ion Mode Detection in High-Mass MALDI-MS for Homomeric Protein Complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 213-224.	1.2	12
29	Hexameric Supramolecular Scaffold Orients Carbohydrates To Sense Bacteria. <i>Journal of the American Chemical Society</i> , 2011, 133, 13957-13966.	6.6	80
30	Quantifying Protein-Protein Interactions Within Noncovalent Complexes Using Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 9251-9259.	3.2	50
31	Absorption of the green fluorescent protein chromophore anion in the gas phase studied by a combination of FTICR mass spectrometry with laser-induced photodissociation spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 241-245.	0.7	34
32	What Happens to Hydrophobic Interactions during Transfer from the Solution to the Gas Phase? The Case of Electrospray-Based Soft Ionization Methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1167-1177.	1.2	45
33	Direct Access to Isolated Biomolecules under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2358-2361.	7.2	34
34	Fragmentation of benzylpyridinium thermometer ions and its effect on the accuracy of internal energy calibration. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 172-177.	1.2	59
35	Rhodamines in the gas phase: cations, neutrals, anions, and adducts with metal cations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11710.	1.3	23
36	Optical properties of protonated Rhodamine 19 isomers in solution and in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14121.	1.3	26

#	ARTICLE	IF	CITATIONS
37	Proteomic analysis of heart mitochondria from <i>Bos taurus</i> : I. Application of proteomic methods to identification of transmembrane domains of proteins of the internal mitochondrial membrane. Russian Journal of Bioorganic Chemistry, 2009, 35, 33-46.	0.3	2