Konstantin Barylyuk

List of Publications by Year
in descending order

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Version: 2024-02-01

37	1,118	430754	434063
papers	citations	18 h-index	31 g-index

42	42	42	1636
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Comprehensive Subcellular Atlas of the Toxoplasma Proteome via hyperLOPIT Provides Spatial Context for Protein Functions. Cell Host and Microbe, 2020, 28, 752-766.e9.	5.1	201
2	Hexameric Supramolecular Scaffold Orients Carbohydrates To Sense Bacteria. Journal of the American Chemical Society, 2011, 133, 13957-13966.	6.6	80
3	Dynamic Assembly and Disassembly of Functional Î²-Endorphin Amyloid Fibrils. Journal of the American Chemical Society, 2016, 138, 846-856.	6.6	71
4	Fragmentation of benzylpyridinium â€œthermometerâ€•ions and its effect on the accuracy of internal energy calibration. Journal of the American Society for Mass Spectrometry, 2010, 21, 172-177.	1.2	59
5	Molecular characterization of the conoid complex in Toxoplasma reveals its conservation in all apicomplexans, including Plasmodium species. PLoS Biology, 2021, 19, e3001081.	2.6	56
6	Quantifying Proteinâ€“Protein Interactions Within Noncovalent Complexes Using Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 9251-9259.	3.2	50
7	Determination of Proteinâ€“Ligand Binding Constants of a Cooperatively Regulated Tetrameric Enzyme Using Electrospray Mass Spectrometry. ACS Chemical Biology, 2014, 9, 218-226.	1.6	46
8	What Happens to Hydrophobic Interactions during Transfer from the Solution to the Gas Phase? The Case of Electrospray-Based Soft Ionization Methods. Journal of the American Society for Mass Spectrometry, 2011, 22, 1167-1177.	1.2	45
9	Native Electrospray Ionization Mass Spectrometry Reveals Multiple Facets of Aptamerâ€“Ligand Interactions: From Mechanism to Binding Constants. Journal of the American Chemical Society, 2018, 140, 7486-7497.	6.6	42
10	Direct Access to Isolated Biomolecules under Ambient Conditions. Angewandte Chemie - International Edition, 2010, 49, 2358-2361.	7.2	34
11	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. International Journal of Mass Spectrometry, 2011, 306, 241-245.	0.7	34
12	Determination of thermodynamic and kinetic properties of biomolecules by mass spectrometry. Current Opinion in Biotechnology, 2015, 31, 65-72.	3.3	33
13	Optical properties of protonated Rhodamine 19 isomers in solution and in the gas phase. Physical Chemistry Chemical Physics, 2010, 12, 14121.	1.3	26
14	Native Biomolecules in the Gas Phase? The Case of Green Fluorescent Protein. ChemPhysChem, 2013, 14, 929-935.	1.0	26
15	Rhodamines in the gas phase: cations, neutrals, anions, and adducts with metal cations. Physical Chemistry Chemical Physics, 2010, 12, 11710.	1.3	23
16	Direct monitoring of proteinâ€“protein inhibition using nano electrospray ionization mass spectrometry. Chemical Science, 2014, 5, 2794-2803.	3.7	23
17	A New, Modular Mass Calibrant for High-Mass MALDI-MS. Analytical Chemistry, 2013, 85, 3425-3432.	3.2	20
18	Fluorescence resonance energy transfer of gas-phase ions under ultra high vacuum and ambient conditions. Physical Chemistry Chemical Physics, 2014, 16, 8911-8920.	1.3	20

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19	Ion Mobility Spectrometry Coupled to Laser-Induced Fluorescence. Analytical Chemistry, 2013, 85, 39-43.	3.2	17
20	Spontaneous non-canonical assembly of CcmK hexameric components from Î²-carboxysome shells of cyanobacteria. PLoS ONE, 2017, 12, e0185109.	1.1	17
21	A Prioritized and Validated Resource of Mitochondrial Proteins in Plasmodium Identifies Unique Biology. MSphere, 2021, 6, e0061421.	1.3	16
22	Probing the mechanisms of ambient ionization by laserâ€induced fluorescence spectroscopy. Rapid Communications in Mass Spectrometry, 2012, 26, 1567-1572.	0.7	15
23	Mass Discrimination in High-Mass MALDI-MS. Journal of the American Society for Mass Spectrometry, 2013, 24, 1396-1404.	1.2	15
24	Aryl Bisâ€Sulfonamide Inhibitors of IspF from Arabidopsis thaliana and Plasmodium falciparum. ChemMedChem, 2015, 10, 2090-2098.	1.6	15
25	DNA Oligonucleotides: A Model System with Tunable Binding Strength to Study Monomerâ€“Dimer Equilibria with Electrospray Ionization-Mass Spectrometry. Analytical Chemistry, 2013, 85, 11902-11912.	3.2	14
26	Aptamer-ligand recognition studied by native ion mobility-mass spectrometry. Talanta, 2021, 224, 121917.	2.9	14
27	Compelling Advantages of Negative Ion Mode Detection in High-Mass MALDI-MS for Homomeric Protein Complexes. Journal of the American Society for Mass Spectrometry, 2012, 23, 213-224.	1.2	12
28	Insight into Signal Response of Protein Ions in Native ESI-MS from the Analysis of Model Mixtures of Covalently Linked Protein Oligomers. Journal of the American Society for Mass Spectrometry, 2017, 28, 1863-1875.	1.2	12
29	Charge-State-Dependent Variation of Signal Intensity Ratio between Unbound Protein and Proteinâ€“Ligand Complex in Electrospray Ionization Mass Spectrometry: The Role of Solvent-Accessible Surface Area. Analytical Chemistry, 2018, 90, 5521-5528.	3.2	11
30	Aryl bis-sulfonamides bind to the active site of a homotrimeric isoprenoid biosynthesis enzyme IspF and extract the essential divalent metal cation cofactor. Chemical Science, 2018, 9, 5976-5986.	3.7	8
31	On the preservation of non-covalent protein complexes during electrospray ionization. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150377.	1.6	6
32	Gas-phase basicity of several common MALDI matrices measured by a simple experimental approach. RSC Advances, 2012, 2, 1962.	1.7	5
33	Ion mobility spectrometry coupled to laser-induced fluorescence for probing the electronic structure and conformation of gas-phase ions. Journal of Analytical Chemistry, 2014, 69, 1215-1219.	0.4	5
34	Global mapping of protein subcellular location in apicomplexans: the parasite as weâ€™ve never seen it before. Access Microbiology, 2019, 1, .	0.2	5
35	Proteomic analysis of heart mitochondria from Bos taurus: 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
36	The production of recombinant 15N, 13C-labelled somatostatin 14 for NMR spectroscopy. Protein Expression and Purification, 2014, 99, 78-86.	0.6	1

#	Article	IF	Citations
37	Mass Spectrometry Research at the Laboratory for Organic Chemistry, ETH Zurich. Chimia, 2014, 68, 119.	0.3	0