Christian Bleiholder

List of Publications by Year
in descending order

36 papers	3,110 citations	257450 24 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	2788 citing authors

#	Article	IF	Citations
1	Tandem-trapped ion mobility spectrometry/mass spectrometry (tTIMS/MS): a promising analytical method for investigating heterogenous samples. Analyst, The, 2022, 147, 2317-2337.	3.5	11
2	Tandem Trapped Ion Mobility Spectrometry/Mass Spectrometry (tTIMS/MS) Reveals Sequence-Specific Determinants of Top-Down Protein Fragment Ion Cross Sections. Analytical Chemistry, 2022, 94, 8146-8155.	6.5	11
3	Tandemâ€trapped ion mobility spectrometry/mass spectrometry coupled with ultraviolet photodissociation. Rapid Communications in Mass Spectrometry, 2021, 35, e9192.	1.5	11
4	Structure-elucidation of human CCL5 by integrating trapped ion mobility spectrometry-mass spectrometry (TIMS-MS) with Structure Relaxation Approximation (SRA) analysis. International Journal of Mass Spectrometry, 2021, 469, 116682.	1.5	3
5	Comment on Effective Temperature and Structural Rearrangement in Trapped Ion Mobility Spectrometry. Analytical Chemistry, 2020, 92, 16329-16333.	6.5	29
6	Structural Analysis of the Glycoprotein Complex Avidin by Tandem-Trapped Ion Mobility Spectrometryâ€“Mass Spectrometry (Tandem-TIMS/MS). Analytical Chemistry, 2020, 92, 4459-4467.	6.5	33
7	Recommendations for reporting ion mobility Mass Spectrometry measurements. Mass Spectrometry Reviews, 2019, 38, 291-320.	5.4	315
8	On the Preservation of Non-covalent Peptide Assemblies in a Tandem-Trapped Ion Mobility Spectrometer-Mass Spectrometer (TIMS-TIMS-MS). Journal of the American Society for Mass Spectrometry, 2019, 30, 1204-1212.	2.8	19
9	Structure Relaxation Approximation (SRA) for Elucidation of Protein Structures from Ion Mobility Measurements. Journal of Physical Chemistry B, 2019, 123, 2756-2769.	2.6	43
10	Trends in trapped ion mobility â€“ Mass spectrometry instrumentation. TrAC - Trends in Analytical Chemistry, 2019, 116, 324-331.	11.4	40
11	From Noncovalent Chalcogenâ€“Chalcogen Interactions to Supramolecular Aggregates: Experiments and Calculations. Chemical Reviews, 2018, 118, 2010-2041.	47.7	244
12	Tandem trapped ion mobility spectrometry. Analyst, The, 2018, 143, 2249-2258.	3.5	54
13	A Transferable, Sample-Independent Calibration Procedure for Trapped Ion Mobility Spectrometry (TIMS). Analytical Chemistry, 2018, 90, 9040-9047.	6.5	54
14	The Solution Assembly of Biological Molecules Using Ion Mobility Methods: From Amino Acids to Amyloid Î²-Protein. Annual Review of Analytical Chemistry, 2017, 10, 365-386.	5.4	43
15	Molecular Structures and Momentum Transfer Cross Sections: The Influence of the Analyte Charge Distribution. Journal of the American Society for Mass Spectrometry, 2017, 28, 619-627.	2.8	17
16	On the structural denaturation of biological analytes in trapped ion mobility spectrometry â€“ mass spectrometry. Analyst, The, 2016, 141, 3722-3730.	3.5	80
17	Towards measuring ion mobilities in non-stationary gases and non-uniform and dynamic electric fields (I). Transport equation. International Journal of Mass Spectrometry, 2016, 399-400, 1-9.	1.5	24
18	Molecular Structures and Ion Mobility Cross Sections: Analysis of the Effects of He and N₂ Buffer Gas. Analytical Chemistry, 2015, 87, 7196-7203.	6.5	78

#	Article	IF	Citations
19	Protomers of Benzocaine: Solvent and Permittivity Dependence. Journal of the American Chemical Society, 2015, 137, 4236-4242.	13.7	172
20	A new algorithm to characterise the degree of concaveness of a molecular surface relevant in ion mobility spectrometry. Molecular Physics, 2015, 113, 2344-2349.	1.7	9
21	A local collision probability approximation for predicting momentum transfer cross sections. Analyst, The, 2015, 140, 6804-6813.	3.5	30
22	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (IV). Application to polypeptides. International Journal of Mass Spectrometry, 2013, 354-355, 275-280.	1.5	57
23	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (II). Model parameterization and definition of empirical shape factors for proteins. International Journal of Mass Spectrometry, 2013, 345-347, 89-96.	1.5	66
24	Factors Contributing to the Collision Cross Section of Polyatomic Ions in the Kilodalton to Gigadalton Range: Application to Ion Mobility Measurements. Analytical Chemistry, 2013, 85, 2191-2199.	6.5	74
25	Dimerization of Chirally Mutated Enkephalin Neurotransmitters: Implications for Peptide and Protein Aggregation Mechanisms. Journal of Physical Chemistry B, 2013, 117, 1770-1779.	2.6	10
26	Ion Mobility Spectrometry Reveals the Mechanism of Amyloid Formation of AÎ²(25â€“35) and Its Modulation by Inhibitors at the Molecular Level: Epigallocatechin Gallate and Scyllo-inositol. Journal of the American Chemical Society, 2013, 135, 16926-16937.	13.7	83
27	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (III): Application to supramolecular coordination-driven assemblies with complex shapes. International Journal of Mass Spectrometry, 2012, 330-332, 78-84.	1.5	58
28	Ion mobilityâ€“mass spectrometry reveals a conformational conversion from random assembly to Î²-sheet in amyloid fibril formation. Nature Chemistry, 2011, 3, 172-177.	13.6	315
29	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (I). Method. International Journal of Mass Spectrometry, 2011, 308, 1-10.	1.5	199
30	Towards Understanding the Tandem Mass Spectra of Protonated Oligopeptides. 2: The Proline Effect in Collision-Induced Dissociation of Protonated Ala-Ala-Xxx-Pro-Ala (Xxx = Ala, Ser, Leu, Val, Phe, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	58
31	Competing gas-phase fragmentation pathways of asparagine-, glutamine-, and lysine-containing protonated dipeptides. Theoretical Chemistry Accounts, 2010, 125, 387-396.	1.4	16
32	Intramolecular Nonbonded Interactions Between Divalent Selenium Centers with Donor and Acceptor Substituents. European Journal of Organic Chemistry, 2009, 2009, 2765-2774.	2.4	17
33	Sequence-Scrambling Fragmentation Pathways of Protonated Peptides. Journal of the American Chemical Society, 2008, 130, 17774-17789.	13.7	145
34	Scrambling of Sequence Information in Collision-Induced Dissociation of Peptides. Journal of the American Chemical Society, 2006, 128, 10364-10365.	13.7	180
35	Theoretical Investigations on Chalcogenâˆ’Chalcogen Interactions:Â What Makes These Nonbonded Interactions Bonding?. Journal of the American Chemical Society, 2006, 128, 2666-2674.	13.7	388
36	Revising the proton affinity scale of the naturally occurring Î±-amino acids. Journal of the American Society for Mass Spectrometry, 2006, 17, 1275-1281.	2.8	129