

Christian Bleiholder

List of Publications by Year in descending order

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36
papers

3,110
citations

257450

24
h-index

345221

36
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36
all docs

36
docs citations

36
times ranked

2788
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Investigations on Chalcogen-Chalcogen Interactions: What Makes These Nonbonded Interactions Bonding?. <i>Journal of the American Chemical Society</i> , 2006, 128, 2666-2674.	13.7	388
2	Ion mobility mass spectrometry reveals a conformational conversion from random assembly to β -sheet in amyloid fibril formation. <i>Nature Chemistry</i> , 2011, 3, 172-177.	13.6	315
3	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	5.4	315
4	From Noncovalent Chalcogen-Chalcogen Interactions to Supramolecular Aggregates: Experiments and Calculations. <i>Chemical Reviews</i> , 2018, 118, 2010-2041.	47.7	244
5	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (I). <i>Method. International Journal of Mass Spectrometry</i> , 2011, 308, 1-10.	1.5	199
6	Scrambling of Sequence Information in Collision-Induced Dissociation of Peptides. <i>Journal of the American Chemical Society</i> , 2006, 128, 10364-10365.	13.7	180
7	Protomers of Benzocaine: Solvent and Permittivity Dependence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4236-4242.	13.7	172
8	Sequence-Scrambling Fragmentation Pathways of Protonated Peptides. <i>Journal of the American Chemical Society</i> , 2008, 130, 17774-17789.	13.7	145
9	Revising the proton affinity scale of the naturally occurring β -amino acids. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1275-1281.	2.8	129
10	Ion Mobility Spectrometry Reveals the Mechanism of Amyloid Formation of $A\beta(25-35)$ and Its Modulation by Inhibitors at the Molecular Level: Epigallocatechin Gallate and Scyllo-inositol. <i>Journal of the American Chemical Society</i> , 2013, 135, 16926-16937.	13.7	83
11	On the structural denaturation of biological analytes in trapped ion mobility spectrometry mass spectrometry. <i>Analyst, The</i> , 2016, 141, 3722-3730.	3.5	80
12	Molecular Structures and Ion Mobility Cross Sections: Analysis of the Effects of He and N_2 Buffer Gas. <i>Analytical Chemistry</i> , 2015, 87, 7196-7203.	6.5	78
13	Factors Contributing to the Collision Cross Section of Polyatomic Ions in the Kilodalton to Gigadalton Range: Application to Ion Mobility Measurements. <i>Analytical Chemistry</i> , 2013, 85, 2191-2199.	6.5	74
14	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. <i>International Journal of Mass Spectrometry</i> , 2013, 345-347, 89-96.	1.5	66
15	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. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 78-84.	1.5	58
16	A novel projection approximation algorithm for the fast and accurate computation of molecular collision cross sections (IV). Application to polypeptides. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 275-280.	1.5	57
17	Tandem trapped ion mobility spectrometry. <i>Analyst, The</i> , 2018, 143, 2249-2258.	3.5	54
18	A Transferable, Sample-Independent Calibration Procedure for Trapped Ion Mobility Spectrometry (TIMS). <i>Analytical Chemistry</i> , 2018, 90, 9040-9047.	6.5	54

#	ARTICLE	IF	CITATIONS
19	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 ETQq1 1 0.784314 rgBT5k Overlook	11.4	40
20	The Solution Assembly of Biological Molecules Using Ion Mobility Methods: From Amino Acids to Amyloid β -Protein. Annual Review of Analytical Chemistry, 2017, 10, 365-386.	5.4	43
21	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
22	Trends in trapped ion mobility " Mass spectrometry instrumentation. TrAC - Trends in Analytical Chemistry, 2019, 116, 324-331.	11.4	40
23	Structural Analysis of the Glycoprotein Complex Avidin by Tandem-Trapped Ion Mobility Spectrometry"Mass Spectrometry (Tandem-TIMS/MS). Analytical Chemistry, 2020, 92, 4459-4467.	6.5	33
24	A local collision probability approximation for predicting momentum transfer cross sections. Analyst, The, 2015, 140, 6804-6813.	3.5	30
25	Comment on Effective Temperature and Structural Rearrangement in Trapped Ion Mobility Spectrometry. Analytical Chemistry, 2020, 92, 16329-16333.	6.5	29
26	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
27	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
28	Intramolecular Nonbonded Interactions Between Divalent Selenium Centers with Donor and Acceptor Substituents. European Journal of Organic Chemistry, 2009, 2009, 2765-2774.	2.4	17
29	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
30	Competing gas-phase fragmentation pathways of asparagine-, glutamine-, and lysine-containing protonated dipeptides. Theoretical Chemistry Accounts, 2010, 125, 387-396.	1.4	16
31	Tandem-trapped ion mobility spectrometry/mass spectrometry coupled with ultraviolet photodissociation. Rapid Communications in Mass Spectrometry, 2021, 35, e9192.	1.5	11
32	Tandem-trapped ion mobility spectrometry/mass spectrometry (TIMS/MS): a promising analytical method for investigating heterogenous samples. Analyst, The, 2022, 147, 2317-2337.	3.5	11
33	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
34	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
35	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
36	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