

Michael T Bowers

List of Publications by Year in descending order

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244
papers

19,575
citations

9775

73
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14197

128
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250
all docs

250
docs citations

250
times ranked

10944
citing authors

#	ARTICLE	IF	CITATIONS
1	Amyloid- β protein oligomerization and the importance of tetramers and dodecamers in the aetiology of Alzheimer's disease. <i>Nature Chemistry</i> , 2009, 1, 326-331.	6.6	835
2	An investigation of the mobility separation of some peptide and protein ions using a new hybrid quadrupole/travelling wave IMS/oa-ToF instrument. <i>International Journal of Mass Spectrometry</i> , 2007, 261, 1-12.	0.7	749
3	Carbon cluster cations with up to 84 atoms: structures, formation mechanism, and reactivity. <i>The Journal of Physical Chemistry</i> , 1993, 97, 8182-8192.	2.9	556
4	Structures of carbon cluster ions from 3 to 60 atoms: Linears to rings to fullerenes. <i>Journal of Chemical Physics</i> , 1991, 95, 3835-3837.	1.2	477
5	Experimental evidence for the formation of fullerenes by collisional heating of carbon rings in the gas phase. <i>Nature</i> , 1993, 363, 60-63.	13.7	395
6	Gas-Phase Conformation of Biological Molecules: α -Bradykinin. <i>Journal of the American Chemical Society</i> , 1996, 118, 8355-8364.	6.6	364
7	Amyloid β -Protein: A Monomer Structure and Early Aggregation States of A β 242 and Its Pro19Alloform. <i>Journal of the American Chemical Society</i> , 2005, 127, 2075-2084.	6.6	321
8	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.	6.6	315
9	Recommendations for reporting ion mobility Mass Spectrometry measurements. <i>Mass Spectrometry Reviews</i> , 2019, 38, 291-320.	2.8	315
10	Effect of the long-range potential on ion mobility measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 275-282.	1.2	305
11	Structural Stability from Solution to the Gas Phase: Native Solution Structure of Ubiquitin Survives Analysis in a Solvent-Free Ion Mobility Mass Spectrometry Environment. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12266-12275.	1.2	298
12	Collisions in a noncentral field: A variational and trajectory investigation of ion dipole capture. <i>Journal of Chemical Physics</i> , 1980, 72, 2641-2655.	1.2	266
13	Design of a new electrospray ion mobility mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2001, 212, 13-23.	0.7	260
14	G-Quadruplex DNA Assemblies: Loop Length, Cation Identity, and Multimer Formation. <i>Journal of the American Chemical Society</i> , 2008, 130, 10208-10216.	6.6	246
15	Amyloid beta-protein monomer structure: A computational and experimental study. <i>Protein Science</i> , 2006, 15, 420-428.	3.1	236
16	Characterization of Phosphorylated Peptides Using Traveling Wave-Based and Drift Cell Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 248-254.	3.2	223
17	Statistical phase space theory of polyatomic systems: Rigorous energy and angular momentum conservation in reactions involving symmetric polyatomic species. <i>Journal of Chemical Physics</i> , 1977, 66, 2306-2315.	1.2	207
18	Human Islet Amyloid Polypeptide Monomers Form Ordered β -hairpins: A Possible Direct Amyloidogenic Precursor. <i>Journal of the American Chemical Society</i> , 2009, 131, 18283-18292.	6.6	204

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19	Elucidating Amyloid β -Protein Folding and Assembly: A Multidisciplinary Approach. <i>Accounts of Chemical Research</i> , 2006, 39, 635-645.	7.6	203
20	Gas-Phase Conformations: The Ion Mobility/Ion Chromatography Method. <i>Topics in Current Chemistry</i> , 2003, , 207-232.	4.0	199
21	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.	0.7	199
22	Near thermal energy charge transfer reactions of rare gas ions with diatomic and simple polyatomic molecules: The importance of Franck-Condon factors and energy resonance on the magnitude of the rate constants. <i>Journal of Chemical Physics</i> , 1974, 61, 4600-4617.	1.2	198
23	Inclusion of a MALDI ion source in the ion chromatography technique: conformational information on polymer and biomolecular ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 146-147, 349-364.	1.9	198
24	The Amyloid Formation Mechanism in Human IAPP: Dimers Have β -Strand Monomer-Monomer Interfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 7240-7243.	6.6	195
25	A new, higher resolution, ion mobility mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2009, 287, 46-57.	0.7	185
26	Multiple transition states in unimolecular reactions: A transition state switching model. Application to the $C_4H_8^+$ system. <i>Journal of Chemical Physics</i> , 1981, 74, 2228-2246.	1.2	181
27	Electronic-state chromatography: application to first-row transition-metal ions. <i>The Journal of Physical Chemistry</i> , 1991, 95, 5134-5146.	2.9	173
28	Protomers of Benzocaine: Solvent and Permittivity Dependence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4236-4242.	6.6	172
29	Salt Bridge Structures in the Absence of Solvent? The Case for the Oligoglycines. <i>Journal of the American Chemical Society</i> , 1998, 120, 5098-5103.	6.6	168
30	Rational Design of a Structural Framework with Potential Use to Develop Chemical Reagents That Target and Modulate Multiple Facets of Alzheimer's Disease. <i>Journal of the American Chemical Society</i> , 2014, 136, 299-310.	6.6	166
31	Ion Mobility Analysis of Molecular Dynamics. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 175-196.	4.8	163
32	An infrared spectroscopy approach to follow β -sheet formation in peptide amyloid assemblies. <i>Nature Chemistry</i> , 2017, 9, 39-44.	6.6	163
33	A new method for studying carbon clusters in the gas phase: Observation of size specific neutral fragment loss from metastable reactions of mass selected C_n^+ , $n \leq 60$. <i>Journal of Chemical Physics</i> , 1988, 88, 2809-2814.	1.2	155
34	Gas phase conformations of biological molecules: the hydrogen/deuterium exchange mechanism. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 9-14.	1.2	155
35	Intermolecular Interactions in Biomolecular Systems Examined by Mass Spectrometry. <i>Annual Review of Physical Chemistry</i> , 2007, 58, 511-533.	4.8	147
36	A hybrid double-focusing mass spectrometer-High-pressure drift reaction cell to study thermal energy reactions of mass-selected ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1990, 1, 197-207.	1.2	143

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37	Gas-Phase Conformations of Synthetic Polymers: Poly(ethylene glycol), Poly(propylene glycol), and Poly(tetramethylene glycol). <i>Journal of the American Chemical Society</i> , 2000, 122, 4692-4699.	6.6	143
38	Stabilization and Structure of Telomeric and c-myc Region Intramolecular G-Quadruplexes: The Role of Central Cations and Small Planar Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 895-904.	6.6	143
39	Structures and Energetics of Vn(C6H6)m+ Clusters: Evidence for a Quintuple-Decker Sandwich. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8207-8213.	1.1	136
40	Intact Size-Selected Au Clusters on a TiO2(110)-(1 Å ⁻¹) Surface at Room Temperature. <i>Journal of the American Chemical Society</i> , 2005, 127, 13516-13518.	6.6	136
41	Tau Assembly: The Dominant Role of PHF6 (VQIVYK) in Microtubule Binding Region Repeat R3. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4582-4593.	1.2	134
42	On the structure, reactivity and relative stability of the large carbon cluster ions C ₆₂ ⁺ , C ₆₀ ⁺ and C ₅₈ ⁺ . <i>Chemical Physics Letters</i> , 1990, 174, 223-229.	1.2	128
43	Conformations of alkali ion cationized polyethers in the gas phase: polyethylene glycol and bis[(benzo-15-crown-5)-15-ylmethyl] pimelate. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 377-390.	1.9	128
44	Carbon cluster anions: structure and growth from C ₅₅ ⁻ to C ₆₂ ⁻ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 149-150, 217-229.	1.9	124
45	Amyloid β -Protein Assembly and Alzheimer's Disease: Dodecamers of A β ₄₂ , but Not of A β ₄₀ , Seed Fibril Formation. <i>Journal of the American Chemical Society</i> , 2016, 138, 1772-1775.	6.6	123
46	Duplex Formation and the Onset of Helicity in Poly d(CG) _n Oligonucleotides in a Solvent-Free Environment. <i>Journal of the American Chemical Society</i> , 2004, 126, 15132-15140.	6.6	119
47	Ion-polar molecule collisions. Conservation of angular momentum in the average dipole orientation theory. The AADO theory. <i>Journal of Chemical Physics</i> , 1978, 69, 2243-2250.	1.2	115
48	Characterization of simple isomeric oligosaccharides and the rapid separation of glycan mixtures by ion mobility mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2010, 298, 119-127.	0.7	114
49	Amyloid β Protein: A β ₄₀ Inhibits A β ₄₂ Oligomerization. <i>Journal of the American Chemical Society</i> , 2009, 131, 6316-6317.	6.6	106
50	Retention of Native Protein Structures in the Absence of Solvent: A Coupled Ion Mobility and Spectroscopic Study. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14173-14176.	7.2	106
51	Atomic structure of a toxic, oligomeric segment of SOD1 linked to amyotrophic lateral sclerosis (ALS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8770-8775.	3.3	104
52	Structural motifs of DNA complexes in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 183-193.	0.7	101
53	Annealing of carbon cluster cations: rings to rings and rings to fullerenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 4363-4364.	6.6	96
54	Effects of Familial Alzheimer's Disease Mutations on the Folding Nucleation of the Amyloid β -Protein. <i>Journal of Molecular Biology</i> , 2008, 381, 221-228.	2.0	96

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55	Gas Phase Conformations of Li ⁺ , Na ⁺ , K ⁺ , and Cs ⁺ Complexed with 18-Crown-6. <i>Journal of the American Chemical Society</i> , 1995, 117, 10159-10160.	6.6	91
56	Amyloid β -Protein C-Terminal Fragments: Formation of Cylindrins and β -Barrels. <i>Journal of the American Chemical Society</i> , 2016, 138, 549-557.	6.6	91
57	The Effect of the Initial Water of Hydration on the Energetics, Structures, and H/D Exchange Mechanism of a Family of Pentapeptides: An Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2003, 125, 13768-13775.	6.6	88
58	Photodissociation of Conformer-Selected Ubiquitin Ions Reveals Site-Specific <i>Cis</i> / <i>Trans</i> Isomerization of Proline Peptide Bonds. <i>Journal of the American Chemical Society</i> , 2014, 136, 10308-10314.	6.6	88
59	Phenylalanine Oligomers and Fibrils: The Mechanism of Assembly and the Importance of Tetramers and Counterions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10080-10083.	6.6	87
60	Cyclo[n]pyrroles: Size and Site-Specific Binding to G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 2641-2648.	6.6	86
61	The Structure of $A\beta$ C-Terminal Fragments Probed by a Combined Experimental and Theoretical Study. <i>Journal of Molecular Biology</i> , 2009, 387, 492-501.	2.0	84
62	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 <i>Scyllo</i> -inositol. <i>Journal of the American Chemical Society</i> , 2013, 135, 16926-16937.	6.6	83
63	Insertion of Sc ⁺ into H ₂ : The First Example of Cluster-Mediated σ -Bond Activation by a Transition Metal Center. <i>Journal of the American Chemical Society</i> , 1994, 116, 9710-9718.	6.6	82
64	Structural Investigation of Encapsulated Fluoride in Polyhedral Oligomeric Silsesquioxane Cages Using Ion Mobility Mass Spectrometry and Molecular Mechanics. <i>Chemistry of Materials</i> , 2008, 20, 4299-4309.	3.2	82
65	Gas phase structures of sodiated oligosaccharides by ion mobility/ion chromatography methods. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 605-614.	1.9	81
66	Origin of Bonding Interactions in Cu ⁺ (H ₂) _n Clusters: An Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 1998, 120, 13494-13502.	6.6	81
67	Hydration of biomolecules. <i>Chemical Physics Letters</i> , 2009, 480, 1-16.	1.2	81
68	On the question of salt bridges of cationized amino acids in the gas phase: glycine and arginine. <i>International Journal of Mass Spectrometry</i> , 1999, 182-183, 243-252.	0.7	80
69	G-quadruplexes in telomeric repeats are conserved in a solvent-free environment. <i>International Journal of Mass Spectrometry</i> , 2006, 253, 225-237.	0.7	80
70	Familial Alzheimer's Disease Mutations Differentially Alter Amyloid β -Protein Oligomerization. <i>ACS Chemical Neuroscience</i> , 2012, 3, 909-918.	1.7	80
71	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.	3.2	78
72	Mass Spectrometry: Recent Advances and Future Directions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 12897-12910.	2.9	77

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73	Gas-Phase Conformations and Folding Energetics of Oligonucleotides: Δ dTG-and dGT-. Journal of the American Chemical Society, 2001, 123, 5610-5611.	6.6	76
74	Sequential Hydration of Small Protonated Peptides. Journal of the American Chemical Society, 2003, 125, 8458-8464.	6.6	76
75	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.	3.2	74
76	Cluster ions: carbon, met-cars, and σ -bond activation. Accounts of Chemical Research, 1994, 27, 324-332.	7.6	73
77	Poly (ethylene terephthalate) oligomers cationized by alkali ions: Structures, energetics, and their effect on mass spectra and the matrix-assisted laser desorption/ionization process. Journal of the American Society for Mass Spectrometry, 1999, 10, 883-895.	1.2	73
78	Binding energies of cobalt(1+)-hydrogen-methane-ethane ($\text{Co}^+ \cdot (\text{H}_2/\text{CH}_4/\text{C}_2\text{H}_6)_{1,2,3}$) clusters. The Journal of Physical Chemistry, 1993, 97, 1810-1817.	2.9	72
79	Gas-phase conformations of cationized poly(styrene) oligomers. Journal of the American Society for Mass Spectrometry, 2002, 13, 499-505.	1.2	72
80	Al^{2+} (39 \AA^2) Modulates Al^{2+} Oligomerization but Not Fibril Formation. Biochemistry, 2012, 51, 108-117.	1.2	72
81	Microstructural and conformational studies of polyether copolymers. International Journal of Mass Spectrometry, 2004, 238, 287-297.	0.7	71
82	Gas phase conformations of synthetic polymers: poly (methyl methacrylate) oligomers cationized by sodium ions. International Journal of Mass Spectrometry, 1999, 188, 121-130.	0.7	70
83	Energy disposal in photodissociation from magic angle measurements with a crossed high-energy ion beam and laser beam: Photodissociation dynamics of the $(\text{N}_2)^{+2}$ cluster in the 458 \AA –514 nm range. Journal of Chemical Physics, 1984, 81, 214-221.	1.2	69
84	Charge transfer half-collisions: Photodissociation of the $\text{Kr} \cdot \dots \text{O}^{+2}$ cluster ion with resolution of the O_2 product vibrational states. Journal of Chemical Physics, 1984, 81, 4369-4379.	1.2	69
85	Amyloid β -Protein Assembly: The Effect of Molecular Tweezers CLR01 and CLR03. Journal of Physical Chemistry B, 2015, 119, 4831-4841.	1.2	69
86	$\text{Na}^+/\text{K}^+ \cdot (\text{H}_2)_{1,2}$ clusters: binding energies from theory and experiment. The Journal of Physical Chemistry, 1994, 98, 2044-2049.	2.9	67
87	Gas-Phase Conformations of Deprotonated and Protonated Mononucleotides Determined by Ion Mobility and Theoretical Modeling. Journal of Physical Chemistry B, 2003, 107, 12829-12837.	1.2	67
88	Is it biologically relevant to measure the structures of small peptides in the gas-phase?. International Journal of Mass Spectrometry, 2005, 240, 273-284.	0.7	67
89	Oligomers of the Prion Protein Fragment 106–126 Are Likely Assembled from β -Hairpins in Solution, and Methionine Oxidation Inhibits Assembly without Altering the Peptide's Monomeric Conformation. Journal of the American Chemical Society, 2010, 132, 532-539.	6.6	67
90	Defining the Molecular Basis of Amyloid Inhibitors: Human Islet Amyloid Polypeptide's Insulin Interactions. Journal of the American Chemical Society, 2014, 136, 12912-12919.	6.6	67

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91	The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018, 140, 7554-7560.	6.6	67
92	Activation of Methane by MH ⁺ (M = Fe, Co, and Ni): A Combined Mass Spectrometric and DFT Study. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9755-9761.	1.1	66
93	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.	0.7	66
94	The impact of environment and resonance effects on the site of protonation of aminobenzoic acid derivatives. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25474-25482.	1.3	66
95	Interactions between Amyloid- β^2 and Tau Fragments Promote Aberrant Aggregates: Implications for Amyloid Toxicity. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11220-11230.	1.2	65
96	Transition-metal ion-rare gas clusters: bond strengths and molecular parameters for Co ⁺ (He/Ne) _n , Ni ⁺ (He/Ne) _n , and Cr ⁺ (He/Ne/Ar). <i>The Journal of Physical Chemistry</i> , 1991, 95, 10600-10609.	2.9	63
97	Mn ⁺ (H ₂) _n and Zn ⁺ (H ₂) _n Clusters: Influence of 3d and 4s Orbitals on Metal-Ligand Bonding. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2809-2816.	1.1	63
98	Structural characterization of G-quadruplexes in deoxyguanosine clusters using ion mobility mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 989-997.	1.2	63
99	Binding between Ground-State Aluminum Ions and Small Molecules: Al ⁺ (H ₂ /CH ₄ /C ₂ H ₂ /C ₂ H ₄ /C ₂ H ₆) _n . Can Al ⁺ Insert into H ₂ ? <i>Journal of Physical Chemistry A</i> , 1998, 102, 8590-8597.	1.1	62
100	Hydration of Protonated Aromatic Amino Acids: Phenylalanine, Tryptophan, and Tyrosine. <i>Journal of the American Chemical Society</i> , 2009, 131, 4695-4701.	6.6	62
101	Oxytocin-Receptor Binding: Why Divalent Metals Are Essential. <i>Journal of the American Chemical Society</i> , 2005, 127, 2024-2025.	6.6	61
102	Reactions of Ground-State Ti ⁺ and V ⁺ with Propane: Factors That Govern C-H and C-C Bond Cleavage Product Branching Ratios. <i>Journal of the American Chemical Society</i> , 1998, 120, 5704-5712.	6.6	60
103	Cobalt-hydrogen (Co ⁺ (H ₂) _n) clusters: binding energies and molecular parameters. <i>The Journal of Physical Chemistry</i> , 1993, 97, 52-58.	2.9	59
104	Landing of size-selected Ag _n ⁺ clusters on single crystal TiO ₂ (110)-(1 $\bar{1}$ -1) surfaces at room temperature. <i>Journal of Chemical Physics</i> , 2005, 122, 081102.	1.2	59
105	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.	0.7	58
106	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.	0.7	57
107	The Effect of Calcium Ions and Peptide Ligands on the Relative Stabilities of the Calmodulin Dumbbell and Compact Structures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 437-447.	1.2	56
108	Infrared spectrum and structure of the homochiral serine octamer-dichloride complex. <i>Nature Chemistry</i> , 2017, 9, 1263-1268.	6.6	56

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109	Electronic state-selected reactivity of transition metal ions: cobalt(+) and iron(+) with propane. <i>Journal of the American Chemical Society</i> , 1992, 114, 10941-10950.	6.6	55
110	Amyloid β -Protein Assembly: Differential Effects of the Protective A2T Mutation and Recessive A2V Familial Alzheimer's Disease Mutation. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1732-1740.	1.7	55
111	Conformational evolution of ubiquitin ions in electrospray mass spectrometry: molecular dynamics simulations at gradually increasing temperatures. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3077.	1.3	54
112	Initiation of assembly of tau(273-284) and its K280 mutant: an experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8916.	1.3	54
113	The formation and reactivity of HOC+: Interstellar implications. <i>Journal of Chemical Physics</i> , 1985, 83, 1121-1131.	1.2	53
114	Hydration of small peptides. <i>International Journal of Mass Spectrometry</i> , 2005, 240, 221-232.	0.7	53
115	Hydration of Mononucleotides. <i>Journal of the American Chemical Society</i> , 2006, 128, 15155-15163.	6.6	53
116	B-DNA Helix Stability in a Solvent-Free Environment. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1188-1195.	1.2	53
117	Investigation of the dynamics and energy disposal in the photodissociation of small ion clusters using a high-energy ion beam crossed with a laser beam: Photodissociation of (NO) ₂ ⁺ in the 488-660 nm range. <i>Journal of Chemical Physics</i> , 1983, 79, 6086-6096.	1.2	52
118	Methane Dehydrogenation by Ti ⁺ : A Cluster-Assisted Mechanism for σ -Bond Activation. <i>Journal of the American Chemical Society</i> , 1995, 117, 2098-2099.	6.6	52
119	Spermine Binding to Parkinson's Protein β -Synuclein and Its Disease-Related A30P and A53T Mutants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11147-11154.	1.2	52
120	Details of Potential Energy Surfaces Involving C-C Bond Activation: Reactions of Fe ⁺ , Co ⁺ , and Ni ⁺ with Acetone. <i>Journal of the American Chemical Society</i> , 1995, 117, 10976-10985.	6.6	51
121	Structural Characterization of POSS Siloxane Dimer and Trimer. <i>Chemistry of Materials</i> , 2006, 18, 1490-1497.	3.2	51
122	Amyloid β -Protein: Experiment and Theory on the 21-30 Fragment. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6041-6046.	1.2	50
123	Binding energies of Ti+(H ₂) ₁₋₆ clusters: Theory and experiment. <i>Journal of Chemical Physics</i> , 1997, 106, 10153-10167.	1.2	48
124	Cr+(H ₂) _n clusters: Asymmetric bonding from a symmetric ion. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 160, 17-37.	1.9	47
125	Gas-phase conformations of deprotonated trinucleotides (dGTT ⁻ , dTGT ⁻ , and dTTG ⁻): the question of zwitterion formation. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 161-170.	1.2	47
126	Application of ion mobility to the gas-phase conformational analysis of polyhedral oligomeric silsesquioxanes (POSS). <i>International Journal of Mass Spectrometry</i> , 2003, 222, 63-73.	0.7	47

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127	Hydration of protonated primary amines: effects of intermolecular and intramolecular hydrogen bonds. <i>International Journal of Mass Spectrometry</i> , 2004, 236, 81-90.	0.7	47
128	Structural analysis of prion proteins by means of drift cell and traveling wave ion mobility mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 845-854.	1.2	47
129	Mechanism of C-Terminal Fragments of Amyloid β -Protein as Al^{3+} Inhibitors: Do C-Terminal Interactions Play a Key Role in Their Inhibitory Activity?. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1615-1623.	1.2	47
130	NFGAIL Amyloid Oligomers: The Onset of Beta-Sheet Formation and the Mechanism for Fibril Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 244-249.	6.6	47
131	Product kinetic energy release distributions as a probe of the energetics and mechanisms of organometallic reactions involving the formation of metallacyclobutanes in the gas phase. <i>Journal of the American Chemical Society</i> , 1989, 111, 1991-2001.	6.6	46
132	Spin change induced in vanadium(II) by low-field ligands: binding energies of vanadium ion-hydrogen ($\text{V}+(\text{H}_2)_n$) clusters ($n = 1-7$). <i>The Journal of Physical Chemistry</i> , 1993, 97, 11628-11634.	2.9	45
133	Isomeric Structural Characterization of Polyhedral Oligomeric Silsesquioxanes (POSS) with Styryl and Epoxy Phenyl Capping Agents. <i>Nano Letters</i> , 2004, 4, 779-785.	4.5	45
134	Investigation of Noncovalent Interactions in Deprotonated Peptides: Structural and Energetic Competition between Aggregation and Hydration. <i>Journal of the American Chemical Society</i> , 2004, 126, 3261-3270.	6.6	44
135	Ion mobility spectrometry: A personal view of its development at UCSB. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 75-95.	0.7	44
136	Reactions of state-selected cobalt(+) with propane. <i>Journal of the American Chemical Society</i> , 1992, 114, 1083-1084.	6.6	43
137	Protonated Arginine and Protonated Lysine: Hydration and Its Effect on the Stability of Salt-Bridge Structures. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9995-10000.	1.2	43
138	The Solution Assembly of Biological Molecules Using Ion Mobility Methods: From Amino Acids to Amyloid β -Protein. <i>Annual Review of Analytical Chemistry</i> , 2017, 10, 365-386.	2.8	43
139	Factors Affecting σ Bond Activation in Simple Systems: Measurement of Experimental Binding Energies of $\text{Fe}+(\text{H}_2)_{1-6}$ Clusters. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15602-15607.	2.9	41
140	Supramolecular Modification of Ion Chemistry: Modulation of Peptide Charge State and Dissociation Behavior through Complexation with Cucurbit[n]uril ($n = 5, 6$) or β -Cyclodextrin. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1508-1517.	1.1	41
141	An experimental study of the formation and reactivity of ionic hydrogen clusters: The first observation and characterization of the even clusters H_4^+ , H_6^+ , H_8^+ , and H_{10}^+ . <i>Journal of Chemical Physics</i> , 1987, 86, 1301-1310.	1.2	40
142	Fundamental studies of the energetics and dynamics of ligand dissociation and exchange processes at transition-metal centers in the gas phase: $\text{Mn}(\text{CO})_x^+$, $x = 1-6$. <i>Journal of the American Chemical Society</i> , 1989, 111, 2401-2409.	6.6	40
143	Direct Visualization of Water-Induced Relocation of Au Atoms from Oxygen Vacancies on a $\text{TiO}_2(110)$ Surface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3987-3990.	1.5	40
144	Amino Acid Metaclusters: Implications of Growth Trends on Peptide Self-Assembly and Structure. <i>Analytical Chemistry</i> , 2016, 88, 868-876.	3.2	40

#	ARTICLE	IF	CITATIONS
145	On the formation of HCO ⁺ and HOC ⁺ from the reaction between H ₃ and CO. Journal of Chemical Physics, 1982, 77, 5847-5848.	1.2	39
146	Determination of potential energy curves for ground and metastable excited state transition metal ions interacting with helium and neon using electronic state chromatography. Journal of Chemical Physics, 1992, 96, 6591-6605.	1.2	38
147	Folding Energetics and Dynamics of Macromolecules in the Gas Phase: Alkali Ion-Cationized Poly(ethylene terephthalate) Oligomers. Journal of the American Chemical Society, 1999, 121, 1421-1422.	6.6	38
148	On the use of collision induced dissociation spectra in the determination of the structural composition of ions. Organic Mass Spectrometry, 1982, 17, 229-236.	1.3	37
149	3-Dimensional structural characterization of cationized polyhedral oligomeric silsesquioxanes (POSS) with styryl and phenylethyl capping agents. International Journal of Mass Spectrometry, 2003, 227, 205-216.	0.7	37
150	DNA Hairpin, Pseudoknot, and Cruciform Stability in a Solvent-Free Environment. Journal of Physical Chemistry B, 2009, 113, 1722-1727.	1.2	37
151	An improved high-pressure, temperature-variable ion source with coaxial electron beam/ion exit slit. International Journal of Mass Spectrometry and Ion Processes, 1983, 54, 263-282.	1.9	36
152	Photodissociation dynamics of negative ion clusters: (SO ₂) ⁻² . Journal of Chemical Physics, 1986, 85, 2718-2725.	1.2	36
153	C ₇ ⁺ is cyclic: experimental evidence. Chemical Physics Letters, 1993, 212, 241-246.	1.2	36
154	Fe(CH ₄) _n ⁺ and Ni(CH ₄) _n ⁺ clusters: experimental and theoretical bond energies for n = 1-6. International Journal of Mass Spectrometry, 2001, 210-211, 265-281.	0.7	36
155	Binding interactions of mono- and diatomic silver cations with small alkenes: experiment and theory. International Journal of Mass Spectrometry, 2005, 241, 109-117.	0.7	36
156	Ni+(H ₂) _n : Ligand bond energies for ground state ions. Chemical Physics Letters, 1998, 293, 503-510.	1.2	35
157	Host/guest conformations of biological systems: valinomycin/alkali ions. International Journal of Mass Spectrometry, 1999, 193, 143-152.	0.7	35
158	Effects of pH and Charge State on Peptide Assembly: The YVIFL Model System. Journal of Physical Chemistry B, 2013, 117, 10759-10768.	1.2	35
159	Z-Phe-Ala-diazomethylketone (PADK) Disrupts and Remodels Early Oligomer States of the Alzheimer Disease Aβ ₄₂ Protein. Journal of Biological Chemistry, 2012, 287, 6084-6088.	1.6	34
160	Theory of ion-polar molecule collisions. Kinetic energy dependence of ion-polar molecule reactions: CH ₃ OH ⁺ + CH ₃ OH → CH ₃ OH ₂ ⁺ + CH ₃ O. Journal of Chemical Physics, 1973, 58, 5175-5176.	1.2	33
161	The dynamics of photodissociation of cluster ions. II. Photodissociation of the (NO) ₃ ⁺ cluster in the visible wavelength range. Journal of Chemical Physics, 1984, 81, 222-230.	1.2	33
162	Structure of Hybrid Polyhedral Oligomeric Silsesquioxane Propyl Methacrylate Oligomers Using Ion Mobility Mass Spectrometry and Molecular Mechanics. Chemistry of Materials, 2005, 17, 2537-2545.	3.2	33

#	ARTICLE	IF	CITATIONS
163	Oligomerization of the microtubule-associated protein tau is mediated by its N-terminal sequences: implications for normal and pathological tau action. <i>Journal of Neurochemistry</i> , 2016, 137, 939-954.	2.1	33
164	Unimolecular and bimolecular reactions in the C ₄ H ₆ ⁺ system: Experiment and theory. <i>Journal of Chemical Physics</i> , 1983, 78, 3756-3766.	1.2	32
165	Radiative lifetimes of metastable O ₂ (⁴ Δ) and NO(³ Σ ⁺). <i>Journal of Chemical Physics</i> , 1990, 92, 4849-4855.	1.2	30
166	Gly25-Ser26 Amyloid β-Protein Structural Isomorphs Produce Distinct Aβ ₄₂ Conformational Dynamics and Assembly Characteristics. <i>Journal of Molecular Biology</i> , 2014, 426, 2422-2441.	2.0	30
167	Tau Aggregation Propensity Engrained in Its Solution State. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14421-14432.	1.2	30
168	An Intrinsic Hydrophobicity Scale for Amino Acids and Its Application to Fluorinated Compounds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8216-8220.	7.2	30
169	Photodissociation of the SO ₂ ...SO ₂ dimer in the visible region of the spectrum: Product relative kinetic energy distributions and product angular distributions. <i>Journal of Chemical Physics</i> , 1985, 82, 1832-1840.	1.2	29
170	Dehydrogenation of Ethene by Ti ⁺ and V ⁺ : Excited State Effects on the Mechanism for C-H Bond Activation from Kinetic Energy Release Distributions. <i>Journal of the American Chemical Society</i> , 1997, 119, 3935-3941.	6.6	29
171	Structures of C _n H _x ⁺ Molecules for n = 22 and x = 5: Emergence of PAHs and Effects of Dangling Bonds on Conformation. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2096-2102.	1.1	29
172	Conformational Stability of Syrian Hamster Prion Protein PrP(90-231). <i>Journal of the American Chemical Society</i> , 2010, 132, 8816-8818.	6.6	29
173	Diphenylalanine Self Assembly: Novel Ion Mobility Methods Showing the Essential Role of Water. <i>Analytical Chemistry</i> , 2015, 87, 4245-4252.	3.2	29
174	Hetero-oligomeric Amyloid Assembly and Mechanism: Prion Fragment PrP(106-126) Catalyzes the Islet Amyloid Polypeptide β ₂₈₋₃₅ -Hairpin. <i>Journal of the American Chemical Society</i> , 2018, 140, 9685-9695.	6.6	28
175	On the Dissolution Processes of NaI ⁺ and NaI ₂ ⁺ with the Association of Water Molecules: Mechanistic and Energetic Details. <i>Journal of the American Chemical Society</i> , 2003, 125, 3341-3352.	6.6	27
176	Opposing Effects of Cucurbit[7]uril and 1,2,3,4,6-Penta-O-galloyl-β-D-glucopyranose on Amyloid β ₂₅₋₃₅ Assembly. <i>ACS Chemical Neuroscience</i> , 2016, 7, 218-226.	1.7	27
177	Internal Excitation in the Products of Nucleophilic Substitution from the Dissociation of Metastable Ion Complexes. <i>Journal of the American Chemical Society</i> , 1998, 120, 6785-6796.	6.6	26
178	Factors That Drive Peptide Assembly from Native to Amyloid Structures: Experimental and Theoretical Analysis of [Leu-5]-Enkephalin Mutants. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7247-7256.	1.2	26
179	Role of Species-Specific Primary Structure Differences in Aβ ₄₂ Assembly and Neurotoxicity. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1941-1955.	1.7	26
180	Ion-polar molecule collisions: Nonreactive collisions of Cl ⁺ with dichloroethylene and difluorobenzene. <i>Journal of Chemical Physics</i> , 1974, 60, 4897-4899.	1.2	25

#	ARTICLE	IF	CITATIONS
181	Mechanistic and Energetic Details of Adduct Formation and σ -Bond Activation in $Zr+(H_2)_n$ Clusters. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2216-2224.	1.1	25
182	Systematic Study of the Structures of Potassiated Tertiary Amino Acids: Salt Bridge Structures Dominate. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9543-9550.	1.1	25
183	Human Islet Amyloid Polypeptide N-Terminus Fragment Self-Assembly: Effect of Conserved Disulfide Bond on Aggregation Propensity. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1010-1018.	1.2	25
184	Sigma bond activation by transition metal ions: the $Co(CH_4)_n^+$ systems revisited. <i>International Journal of Mass Spectrometry</i> , 2001, 204, 281-294.	0.7	24
185	Probing the Structure of Gas-Phase Metallic Clusters via Ligation Energetics: A Sequential Addition of C_2H_4 to $Ag_m^+(m=3-7)$. <i>Journal of the American Chemical Society</i> , 2005, 127, 9994-9995.	6.6	24
186	Formation of Functionalized Nanowires by Control of Self-Assembly Using Multiple Modified Amyloid Peptides. <i>Advanced Functional Materials</i> , 2013, 23, 4881-4887.	7.8	24
187	Factors That Drive Peptide Assembly and Fibril Formation: Experimental and Theoretical Analysis of Sup35 NNQQNY Mutants. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8436-8446.	1.2	24
188	1,2,3,4,6-penta-O-galloyl- β -D-glucopyranose binds to the N-terminal metal binding region to inhibit amyloid I^2 -protein oligomer and fibril formation. <i>International Journal of Mass Spectrometry</i> , 2017, 420, 24-34.	0.7	24
189	Photodissociation of $CO^+3 \dots H_2O$: Observation of the $O^+ \dots H_2O + CO_2$ product channel. <i>Journal of Chemical Physics</i> , 1991, 94, 6546-6552.	1.2	23
190	Bonding interactions in $Ag^+(O_2)_n$ and $Ag_2^+(O_2)_n$ clusters: experiment and theory. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 865-877.	0.7	23
191	Sodium stabilization of dinucleotide multiplexes in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2786.	1.3	23
192	Probing Shapes of Bichromophoric Metal ⁺ Organic Complexes Using Ion Mobility Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2005, 127, 18222-18228.	6.6	23
193	Photon driven charge transfer half-collisions: The photodissociation of $CO_2^+ \dots O_2$ cluster ions with resolution of the O_2 product vibrational states. <i>Journal of Chemical Physics</i> , 1987, 87, 2667-2676.	1.2	22
194	Aggregation of Chameleon Peptides: Implications of \pm -Helicity in Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5874-5883.	1.2	22
195	Internal energy effects in collision induced dissociation spectra. <i>Organic Mass Spectrometry</i> , 1982, 17, 399-402.	1.3	21
196	A laser ion beam study of the photodissociation dynamics of the $(CO_2)^+3$ cluster. <i>Journal of Chemical Physics</i> , 1986, 84, 4882-4887.	1.2	21
197	Energetics, structure and photodissociation dynamics of the cluster $Ar^+ \dots N_2$. <i>Journal of Chemical Physics</i> , 1990, 93, 1158-1164.	1.2	21
198	Photodissociation of CO^+3 : Product kinetic energy measurements as a probe of excited state potential surfaces and dissociation dynamics. <i>Journal of Chemical Physics</i> , 1990, 92, 5935-5943.	1.2	21

#	ARTICLE	IF	CITATIONS
199	Structural Analysis of Metal Interactions with the Dinucleotide Duplex, dCG ⁺ -dCG, Using Ion Mobility Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4808-4810.	1.2	21
200	Mechanism of thermal energy gas phase charge exchange reaction: He ⁺ + N ₂ . <i>Journal of Chemical Physics</i> , 1973, 59, 4915-4921.	1.2	20
201	Catalytic Prion-Like Cross-Talk between a Key Alzheimer's Disease Tau-Fragment R3 and the Type 2 Diabetes Peptide IAPP. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4757-4765.	1.7	20
202	Dissociation reactions of diatomic silver cations with small alkenes: experiment and theory. <i>International Journal of Mass Spectrometry</i> , 2005, 241, 99-108.	0.7	19
203	An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 252-262.	0.7	19
204	Energy disposal in the thermal and near-thermal energy charge exchange reactions: N ⁺ (3P)+CO(X ¹ Σ ⁺) → N(4S)+CO+(X ² Σ ⁺) and N ⁺ (3P)+CO(X ¹ Σ ⁺) → N(3P)+NO+(X ¹ Σ ⁺). <i>Journal of Chemical Physics</i> , 1990, 92, 4901-4906.	0.5	18
205	Organometallic Reaction Energetics from Product Kinetic Energy Release Distributions. <i>ACS Symposium Series</i> , 1990, , 34-54.	0.5	18
206	The Role of the Cyclopentadienyl Ligand in the C-F Bond Activation of Methane. <i>Journal of the American Chemical Society</i> , 2000, 122, 392-393.	6.6	18
207	Origin of Bonding Interactions in Cu ₂ +(H ₂) _n Clusters: An Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10027-10032.	1.1	18
208	Diastereomer Assignment of an Olefin-Linked Bis-paracyclophane by Ion Mobility Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2004, 126, 6255-6257.	6.6	18
209	ESI and MALDI mass spectrometry of large POSS oligomers. <i>International Journal of Mass Spectrometry</i> , 2010, 292, 38-47.	0.7	18
210	Intramolecular energy transfer rates in photoexcited cluster ions: The photodissociation dynamics of CO ⁺ 3...H ₂ O and CO ⁺ 3...CO ₂ . <i>Journal of Chemical Physics</i> , 1988, 88, 3072-3080.	1.2	17
211	Terminal Capping of an Amyloidogenic Tau Fragment Modulates Its Fibrillation Propensity. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8772-8783.	1.2	17
212	Metastable and collision induced fragmentation of some small cluster ions: Ar ₂ ⁺ , Ar ₃ ⁺ , ArN ₂ ⁺ and N ₄ ⁺ . <i>Organic Mass Spectrometry</i> , 1983, 18, 553-560.	1.3	15
213	Clustering and activation in reactions of CoCp ⁺ with hydrogen and methane. <i>International Journal of Mass Spectrometry</i> , 2003, 230, 161-174.	0.7	15
214	Ion cyclotron resonance spectroscopy: A sensitivity calibration of marginal oscillators as a function of frequency. <i>Review of Scientific Instruments</i> , 1977, 48, 1477-1481.	0.6	14
215	Kinetic energy release distributions as a probe of ligation effects on potential energy surfaces in organometallic reactions. Reversible dehydrogenation of cycloalkenes by iron cation. <i>Journal of the American Chemical Society</i> , 1990, 112, 9372-9378.	6.6	14
216	Reactions of ions in excited electronic states: (CO ⁺ ...) [*] +CO → C ₂ O ⁺ +...+CO. <i>Journal of Chemical Physics</i> , 1975, 63, 3656-3660.	1.2	13

#	ARTICLE	IF	CITATIONS
217	Effect of reactant ion internal and translational energy on the rate constants of the charge exchange reactions: $\text{CO}_2^{++} + \text{O}_2^+ \rightarrow \text{CO}_2 + \text{O}_2^+$ and $\text{O}_2^{++} + \text{O}_2^+ \rightarrow \text{O}_2 + \text{O}_2^+$. Journal of Chemical Physics, 1985, 82, 4517-4523.	1.2	13
218	Statistical phase space theory of ion-polar molecule systems: Application to the reaction $\text{H}_2\text{O}^+ \rightarrow \text{H}_3\text{O}^+$. Journal of Chemical Physics, 1987, 86, 2611-2616.	1.2	13
219	Sequence dependent conformations of glycidyl methacrylate/butyl methacrylate copolymers in the gas phase. International Journal of Mass Spectrometry, 2004, 238, 279-286.	0.7	13
220	Zinc-Induced Conformational Transitions in Human Islet Amyloid Polypeptide and Their Role in the Inhibition of Amyloidosis. Journal of Physical Chemistry B, 2018, 122, 9852-9859.	1.2	13
221	Characterizing TDP-43 ³⁰⁷⁻³¹⁹ Oligomeric Assembly: Mechanistic and Structural Implications Involved in the Etiology of Amyotrophic Lateral Sclerosis. ACS Chemical Neuroscience, 2019, 10, 4112-4123.	1.7	13
222	Inhibiting and Remodeling Toxic Amyloid-Beta Oligomer Formation Using a Computationally Designed Drug Molecule That Targets Alzheimer's Disease. Journal of the American Society for Mass Spectrometry, 2019, 30, 85-93.	1.2	13
223	Frequency-scanning marginal oscillator for ion cyclotron resonance spectroscopy. Review of Scientific Instruments, 1982, 53, 989-996.	0.6	12
224	Human Islet Amyloid Polypeptide Assembly: The Key Role of the 8-20 Fragment. Journal of Physical Chemistry B, 2016, 120, 11905-11911.	1.2	11
225	The Determination of Cis-Trans Conformations in Tetrahedralp-Phenylene Vinylene Oligomers. Journal of Physical Chemistry A, 2004, 108, 7730-7735.	1.1	10
226	Catalytic Cross Talk between Key Peptide Fragments That Couple Alzheimer's Disease with Amyotrophic Lateral Sclerosis. Journal of the American Chemical Society, 2021, 143, 3494-3502.	6.6	10
227	A new algorithm to characterise the degree of concaveness of a molecular surface relevant in ion mobility spectrometry. Molecular Physics, 2015, 113, 2344-2349.	0.8	9
228	Ion velocity distributions in an ICR spectrometer and their effect on measured rate constants. Journal of Chemical Physics, 1976, 65, 990-997.	1.2	8
229	Modulating ALS-Related Amyloidogenic TDP-43 ³⁰⁷⁻³¹⁹ Oligomeric Aggregates with Computationally Derived Therapeutic Molecules. Biochemistry, 2020, 59, 499-508.	1.2	8
230	Comment on "Entropy bottlenecks in ion-molecule reactions". Journal of Chemical Physics, 1985, 82, 2168-2169.	1.2	7
231	Elucidation of the Aggregation Pathways of Helix-Turn-Helix Peptides: Stabilization at the Turn Region Is Critical for Fibril Formation. Biochemistry, 2015, 54, 4050-4062.	1.2	7
232	Distal amyloid protein fragments template amyloid assembly. Protein Science, 2018, 27, 1181-1190.	3.1	7
233	Energetics and Structures of Gas Phase Ions: Macromolecules, Clusters and Ligated Transition Metals. , 1999, , 235-258.		7
234	Photodissociation dynamics of weakly bound ion-neutral clusters: $\text{SO}_2^+ \rightarrow \text{SO} + \text{O}^+$. Journal of Chemical Physics, 1987, 86, 3283-3291.	1.2	6

#	ARTICLE	IF	CITATIONS
235	A new instrument with high mass and high ion mobility resolution. <i>International Journal of Mass Spectrometry</i> , 2018, 434, 108-115.	0.7	6
236	Latent Models of Molecular Dynamics Data: Automatic Order Parameter Generation for Peptide Fibrillization. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8012-8022.	1.2	6
237	The Classifying Autoencoder: Gaining Insight into Amyloid Assembly of Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5256-5264.	1.2	5
238	Aminoglycoside antibiotics: A-site specific binding to 16S. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 105-111.	0.7	4
239	Re-print of "Ion Mobility Spectrometry: A Personal View of its Development at UCSB". <i>International Journal of Mass Spectrometry</i> , 2015, 377, 625-645.	0.7	3
240	Developments in Ion Mobility. , 2010, , 3-30.		3
241	One- and Two-Dimensional Carbon Clusters: Isomers, Structures and Isomer Abundances.. <i>Materials Research Society Symposia Proceedings</i> , 1992, 270, 117.	0.1	1
242	Chapter 3 Noncovalent Protein Interactions. <i>Comprehensive Analytical Chemistry</i> , 2008, , 63-82.	0.7	0
243	Self-Assembly: Formation of Functionalized Nanowires by Control of Self-Assembly Using Multiple Modified Amyloid Peptides (<i>Adv. Funct. Mater.</i> 39/2013). <i>Advanced Functional Materials</i> , 2013, 23, 4880-4880.	7.8	0
244	Rücktitelbild: Die Erhaltung nativer Proteinstrukturen unter Ausschluss von Lösungsmittel: eine Untersuchung mit Hilfe der Kombination von Ionenmobilität mit Spektroskopie (<i>Angew. Chem.</i> 45/2016). <i>Angewandte Chemie</i> , 2016, 128, 14386-14386.	1.6	0