

# Peter Armentrout

## List of Publications by Year in descending order

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425  
papers

25,409  
citations

4370

86  
h-index

11899

134  
g-index

431  
all docs

431  
docs citations

431  
times ranked

5404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetics and mechanisms for decomposition of cationized amino acids and peptides explored using guided ion beam tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2023, 42, 928-953.	2.8	5
2	Periodic trends in gas-phase oxidation and hydrogenation reactions of lanthanides and 5d transition metal cations. <i>Mass Spectrometry Reviews</i> , 2022, 41, 606-626.	2.8	9
3	Experimental and computational investigation of the bond energy of thorium dicarbonyl cation and theoretical elucidation of its isomerization mechanism to the thermodynamically most stable isomer, thorium oxide ketenylidene cation, $\text{OTh}^+\text{CCO}$ . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 842-853.	1.3	1
4	Reactions of atomic thorium and uranium cations with $\text{CF}_4$ studied by guided ion beam tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2022, 472, 116778.	0.7	6
5	Thermodynamics and Reaction Mechanisms for Decomposition of a Simple Protonated Tripeptide, $\text{H}^+\text{GGA}$ : From $\text{H}^+\text{GGG}$ to $\text{H}^+\text{GAG}$ to $\text{H}^+\text{GGA}$ . <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 355-368.	1.2	3
6	IR Spectroscopic Characterization of Methane Adsorption on Copper Clusters $\text{Cu}_n^+$ ( $n = 2-4$ ). <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1393-1400.	1.2	4
7	Reactions of Atomic Thorium and Uranium Cations with $\text{SF}_6$ Studied by Guided Ion Beam Tandem Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2022, .	1.1	1
8	Potassium Binding Interactions with Aliphatic Amino Acids: Thermodynamic and Entropic Effects Analyzed via a Guided Ion Beam and Computational Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1427-1442.	1.2	3
9	Activation of $\text{CO}_2$ by Actinide Cations ( $\text{Th}^+$ , $\text{U}^+$ , $\text{Pu}^+$ ,) $\text{Tj ETQq1 1 0.784314 rgBT}$ . <i>Inorganic Chemistry</i> , 2022, 61, 8168-8181.	1.9	5
10	Thermochemistry and mechanisms of the $\text{Pt}^+ + \text{SO}_2$ reaction from guided ion beam tandem mass spectrometry and theory. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	0
11	C-H Bond Activation and C-C Coupling of Methane on a Single Cationic Platinum Center: A Spectroscopic and Theoretical Study. <i>Inorganic Chemistry</i> , 2022, 61, 11252-11260.	1.9	7
12	Zinc and cadmium complexation of L-methionine: An infrared multiple photon dissociation spectroscopy and theoretical study. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4580.	0.7	4
13	Quantum electronic control on chemical activation of methane by collision with spin-orbit state selected vanadium cation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 273-286.	1.3	7
14	Evaluation of the $\text{Pr} + \text{O} \rightarrow \text{PrO}^+ + \text{e}^-$ chemi-ionization reaction enthalpy and praseodymium oxide, carbide, dioxide, and carbonyl cation bond energies. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2938-2952.	1.3	17
15	Influence of a Hydroxyl Group on the Deamidation and Dehydration Reactions of Protonated Asparagine-Serine Investigated by Combined Spectroscopic, Guided Ion Beam, and Theoretical Approaches. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 786-805.	1.2	3
16	Thermochemistry of the $\text{Ir}^+ + \text{SO}_2$ reaction using guided ion beam tandem mass spectrometry and theory. <i>Journal of Chemical Physics</i> , 2021, 154, 124302.	1.2	3
17	Relative Energetics of the Gas Phase Protomers of <i>p</i> -Aminobenzoic Acid and the Effect of Protonation Site on Fragmentation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2849-2865.	1.1	17
18	Activation of $\text{D}_2$ by Neodymium Cation ( $\text{Nd}^+$ ): Bond Energy of $\text{NdH}^+$ and Mechanistic Insights through Experimental and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2999-3008.	1.1	2

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19	Structural characterization of [M,C,2H] <sup>+</sup> products formed by reaction of 5d metal cations Pt <sup>+</sup> and Ir <sup>+</sup> with ethylene oxide and Ta <sup>+</sup> with methane using messenger spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2021, 378, 111472.	0.4	8
20	Infrared Multiple-Photon Dissociation Spectra of Sodiated Complexes of the Aliphatic Amino Acids. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6348-6355.	1.1	6
21	Sodium Binding Interactions with Aliphatic Amino Acids: A Guided Ion Beam and Computational Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6332-6347.	1.1	6
22	Guided Ion Beam Studies of the Thorium Monocarbonyl Cation Bond Dissociation Energy and Theoretical Unveiling of Different Isomers of [Th <sub>2</sub> O <sub>2</sub> C] <sup>+</sup> and Their Rearrangement Mechanism. <i>Inorganic Chemistry</i> , 2021, 60, 10426-10438.	1.9	5
23	Holmium (Ho) oxide, carbide, and dioxide cation bond energies and evaluation of the Ho O <sup>+</sup> HoO <sup>+</sup> e <sup>-</sup> chemi-ionization reaction enthalpy. <i>Journal of Chemical Physics</i> , 2021, 155, 094303.	1.2	7
24	Reactions of U <sup>+</sup> with H <sub>2</sub> , D <sub>2</sub> , and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Theory. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7825-7839.	1.1	12
25	An investigation of inter-ligand coordination and flexibility: IRMPD spectroscopic and theoretical evaluation of calcium and nickel histidine dimers. <i>Journal of Molecular Spectroscopy</i> , 2021, 381, 111532.	0.4	5
26	Thermochemical studies of hydrated manganese dications, Mn <sub>2</sub> (H <sub>2</sub> O) <sup>2+</sup> (x=4-9), using guided ion beam tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116638.	0.7	1
27	Cryo spectroscopy of N <sub>2</sub> on cationic iron clusters. <i>Journal of Chemical Physics</i> , 2021, 155, 244305.	1.2	15
28	Determination of the SmO <sup>+</sup> bond energy by threshold photodissociation of the cryogenically cooled ion. <i>Journal of Chemical Physics</i> , 2021, 155, 174303.	1.2	15
29	Infrared multiple photon dissociation action spectroscopy of protonated unsymmetrical dimethylhydrazine and proton-bound dimers of hydrazine and unsymmetrical dimethylhydrazine. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25877-25885.	1.3	2
30	Kinetics of stepwise nitrogen adsorption by size-selected iron cluster cations: Evidence for size-dependent nitrogen phobia. <i>Journal of Chemical Physics</i> , 2021, 155, 244306.	1.2	7
31	Comment on "Gas-phase ion-molecule interactions in a collision reaction cell with triple quadrupole-inductively coupled plasma mass spectrometry: Investigations with N <sub>2</sub> O as the reaction gas" by Khadouja Harouaka, Caleb Allen, Eric Bylaska, Richard M Cox, Gregory C. Eiden, Maria Laura di Vacri, Eric W. Hoppe, Isaac J. Arnuist. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 106345.	1.5	0
32	Guided Ion Beam Tandem Mass Spectrometry and Theoretical Study of SO <sub>2</sub> <sup>+</sup> Activated by Os <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2020, 124, 6629-6644.	1.1	8
33	Praseodymium cation (Pr <sup>+</sup> ) reactions with H <sub>2</sub> , D <sub>2</sub> , and HD: PrH <sup>+</sup> bond energy and mechanistic insights from guided ion beam and theoretical studies. <i>Journal of Chemical Physics</i> , 2020, 153, 144304.	1.2	4
34	Water Loss from Protonated XxxSer and XxxThr Dipeptides Gives Oxazoline Not Oxazolone Product Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2111-2123.	1.2	6
35	Cis-trans isomerization is not rate determining for b <sub>2</sub> ion structures: A guided ion beam and computational study of the decomposition of H <sup>+</sup> (GlyProAla). <i>International Journal of Mass Spectrometry</i> , 2020, 458, 116434.	0.7	4
36	What is the Bond Dissociation Energy of the Vanadium Hydride Cation?. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5306-5313.	1.1	4

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37	Cerium Cation (Ce <sup>+</sup> ) Reactions with H <sub>2</sub> , D <sub>2</sub> , and HD: CeH <sup>+</sup> Bond Energy and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2560-2572.	1.1	11
38	Methane Adducts of Gold Dimer Cations: Thermochemistry and Structure from Collision-Induced Dissociation and Association Kinetics. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3335-3346.	1.1	11
39	Guided Ion Beam and Quantum Chemical Investigation of the Thermochemistry of Thorium Dioxide Cations: Thermodynamic Evidence for Participation of f Orbitals in Bonding. <i>Inorganic Chemistry</i> , 2020, 59, 3118-3131.	1.9	16
40	Thermochemical studies of reactions of Re <sup>+</sup> with SO <sub>2</sub> using guided ion beam experiments and theory. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3191-3203.	1.3	7
41	Threshold Collision-Induced Dissociation of Hydrated Thorium(IV) Trihydroxide Cation: Experimental and Theoretical Investigation of the Binding Energies for Th(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>n</sub> Complexes (n = 1-4). <i>Journal of Physical Chemistry A</i> , 2020, 124, 3090-3100.	1.1	7
42	IRMPD Spectroscopic and Theoretical Structural Investigations of Zinc and Cadmium Dications Bound to Histidine Dimers. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10266-10276.	1.1	6
43	Structural and Energetic Effects of O <sub>2</sub> -Ribose Methylation of Protonated Pyrimidine Nucleosides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2318-2334.	1.2	5
44	Bond energy of ThN <sup>+</sup> : A guided ion beam and quantum chemical investigation of the reactions of thorium cation with N <sub>2</sub> and NO. <i>Journal of Chemical Physics</i> , 2019, 151, 034304.	1.2	20
45	Zinc and Cadmium Complexation of L-Threonine: An Infrared Multiple Photon Dissociation Spectroscopy and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9343-9354.	1.2	14
46	Benzhydrylpyridinium Ions: A New Class of Thermometer Ions for the Characterization of Electrospray-Ionization Mass Spectrometers. <i>Analytical Chemistry</i> , 2019, 91, 11703-11711.	3.2	23
47	Infrared Spectroscopy of Gold Carbene Cation (AuCH <sub>2</sub> <sup>+</sup> ): Covalent or Dative Bonding?. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8932-8941.	1.1	11
48	Experimental and Computational Study of the Group 1 Metal Cation Chelates with Lysine: Bond Dissociation Energies, Structures, and Structural Trends. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1983-1997.	1.2	11
49	Hydration Energies of Iron Hydroxide Cation: A Guided Ion Beam and Theoretical Investigation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1675-1688.	1.1	2
50	Evaluation of the exothermicity of the chemi-ionization reaction Nd + O <sup>+</sup> → NdO <sup>+</sup> + e <sup>-</sup> and neodymium oxide, carbide, dioxide, and carbonyl cation bond energies. <i>Journal of Chemical Physics</i> , 2019, 150, 144309.	1.2	22
51	Mechanism and Energetics of the Hydrolysis of Th <sup>+</sup> To Form Th(OD) <sub>3</sub> <sup>+</sup> : Guided Ion Beam and Theoretical Studies of ThO <sup>+</sup> , ThO <sub>2</sub> <sup>+</sup> , and OThOD <sup>+</sup> Reacting with D <sub>2</sub> O. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5893-5905.	1.1	10
52	Activation of Water by Thorium Cation: A Guided Ion Beam and Quantum Chemical Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1835-1849.	1.2	13
53	Metallacyclopropene structures identified by IRMPD spectroscopic investigation of the dehydrogenation reactions of Ta <sup>+</sup> and TaO <sup>+</sup> with ethene. <i>International Journal of Mass Spectrometry</i> , 2019, 442, 83-94.	0.7	5
54	Infrared multiple photon dissociation action spectroscopy of protonated glycine, histidine, lysine, and arginine complexed with 18-crown-6 ether. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12625-12639.	1.3	9

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55	Ion spectroscopy and guided ion beam studies of protonated asparaginyI-threonine decomposition: Influence of a hydroxyl containing C-Terminal residue on deamidation processes. <i>International Journal of Mass Spectrometry</i> , 2019, 442, 64-82.	0.7	6
56	Au <sub>2</sub> <sup>+</sup> cannot catalyze conversion of methane to ethene at low temperature. <i>Catalysis Science and Technology</i> , 2019, 9, 2767-2780.	2.1	13
57	Bond dissociation energy of Au <sub>2</sub> <sup>+</sup> : A guided ion beam and theoretical investigation. <i>Journal of Chemical Physics</i> , 2019, 150, 174305.	1.2	9
58	Sigma bond activation of deuterium mediated by atomic cerium cations: Experiment and theory. <i>International Journal of Mass Spectrometry</i> , 2019, 441, 19-24.	0.7	2
59	Thermodynamics and Reaction Mechanisms for Decomposition of a Simple Protonated Tripeptide, H <sup>+</sup> GAG: a Guided Ion Beam and Computational Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1013-1027.	1.2	8
60	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of lysine complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> . <i>European Journal of Mass Spectrometry</i> , 2019, 25, 97-111.	0.5	10
61	Robert C. Dunbar (1943–2017). <i>European Journal of Mass Spectrometry</i> , 2019, 25, 4-7.	0.5	0
62	Sequential activation of methane by Ir <sup>+</sup> : An IRMPD and theoretical investigation. <i>International Journal of Mass Spectrometry</i> , 2019, 435, 78-92.	0.7	18
63	Deamidation of Protonated Asparagine–Valine Investigated by a Combined Spectroscopic, Guided Ion Beam, and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2424-2436.	1.1	13
64	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Aspartic Acid Complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> . <i>Journal of Physical Chemistry B</i> , 2018, 122, 3836-3853.	1.2	13
65	Spectroscopic Identification of the Carbyne Hydride Structure of the Dehydrogenation Product of Methane Activation by Osmium Cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1781-1790.	1.2	19
66	Structures of the dehydrogenation products of methane activation by 5d transition metal cations revisited: Deuterium labeling and rotational contours. <i>Journal of Chemical Physics</i> , 2018, 148, 044307.	1.2	24
67	Lanthanides as Catalysts: Guided Ion Beam and Theoretical Studies of Sm <sup>+</sup> + COS. <i>Journal of Physical Chemistry A</i> , 2018, 122, 737-749.	1.1	12
68	Activation of CO <sub>2</sub> by Gadolinium Cation (Gd <sup>+</sup> ): Energetics and Mechanism from Experiment and Theory. <i>Topics in Catalysis</i> , 2018, 61, 3-19.	1.3	19
69	Activation of H <sub>2</sub> by Gadolinium Cation (Gd <sup>+</sup> ): Bond Energy of GdH <sup>+</sup> and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2018, 122, 750-761.	1.1	8
70	Binding energies of hydrated cobalt(II) by collision-induced dissociation and theoretical studies: evidence for a new critical size. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 802-818.	1.3	7
71	Protonated AsparaginyI-Alanine Decomposition: a TCID, SORI-CID, and Computational Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2341-2359.	1.2	7
72	Samarium cation (Sm <sup>+</sup> ) reactions with H <sub>2</sub> , D <sub>2</sub> , and HD: SmH <sup>+</sup> bond energy and mechanistic insights from guided ion beam and theoretical studies. <i>Journal of Chemical Physics</i> , 2018, 149, 164304.	1.2	7

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73	Structural and Energetic Effects of O <sub>2</sub> -Ribose Methylation of Protonated Purine Nucleosides. Journal of Physical Chemistry B, 2018, 122, 9147-9160.	1.2	16
74	18 electrons and counting. Science, 2018, 361, 849-850.	6.0	12
75	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of arginine complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> . Physical Chemistry Chemical Physics, 2018, 20, 20712-20725.	1.3	10
76	Activation of methane by Ru + : Experimental and theoretical studies of the thermochemistry and mechanism. International Journal of Mass Spectrometry, 2017, 413, 135-149.	0.7	9
77	Frontispiece: Methane Activation by 5 <sup>th</sup> Transition Metals: Energetics, Mechanisms, and Periodic Trends. Chemistry - A European Journal, 2017, 23, .	1.7	0
78	Bond Dissociation Energies for Diatomic Molecules Containing 3d Transition Metals: Benchmark Scalar-Relativistic Coupled-Cluster Calculations for 20 Molecules. Journal of Chemical Theory and Computation, 2017, 13, 1044-1056.	2.3	81
79	Thermodynamics and Reaction Mechanisms of Decomposition of the Simplest Protonated Tripeptide, Triglycine: A Guided Ion Beam and Computational Study. Journal of the American Society for Mass Spectrometry, 2017, 28, 739-757.	1.2	25
80	Potential energy surface for the reaction Sm <sup>+</sup> + CO <sub>2</sub> → SmO <sup>+</sup> + CO: guided ion beam and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 11075-11088.	1.3	15
81	Gadolinium cation (Gd <sup>+</sup> ) reaction with O <sub>2</sub> : Potential energy surface mapped experimentally and with theory. Journal of Chemical Physics, 2017, 146, 174302.	1.2	13
82	Thermochemical Investigations of Hydrated Nickel Dication Complexes by Threshold Collision-Induced Dissociation and Theory. Journal of Physical Chemistry A, 2017, 121, 3629-3646.	1.1	10
83	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of glutamic acid complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> . Physical Chemistry Chemical Physics, 2017, 19, 12394-12406.	1.3	24
84	Reactivity of Fe <sup>4+</sup> (CO) <sub>n</sub> + O <sub>2</sub> : oxidation of CO by O <sub>2</sub> at an isolated metal atom. Physical Chemistry Chemical Physics, 2017, 19, 8768-8777.	1.3	4
85	Guided ion beam and theoretical studies of the bond energy of SmS <sup>+</sup> . Journal of Chemical Physics, 2017, 147, 214307.	1.2	5
86	Threshold collision-induced dissociation and theoretical study of protonated azobenzene. Journal of Chemical Physics, 2017, 147, 164308.	1.2	1
87	Methane Activation by 5 <sup>th</sup> Transition Metals: Energetics, Mechanisms, and Periodic Trends. Chemistry - A European Journal, 2017, 23, 10-18.	1.7	83
88	Non-adiabatic behavior in the homolytic and heterolytic bond dissociation of protonated hydrazine: A guided ion beam and theoretical investigation. Journal of Chemical Physics, 2017, 147, 124306.	1.2	2
89	How Hot are Your Ions Really? A Threshold Collision-Induced Dissociation Study of Substituted Benzylpyridinium Ions. Journal of the American Society for Mass Spectrometry, 2017, 28, 1876-1888.	1.2	56
90	Binding energies of hydrated cobalt hydroxide ion complexes: A guided ion beam and theoretical investigation. Journal of Chemical Physics, 2017, 147, 064305.	1.2	5

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91	Guided ion beam and theoretical studies of the reactions of Re <sup>+</sup> , Os <sup>+</sup> , and Ir <sup>+</sup> with CO. Journal of Chemical Physics, 2016, 145, 194305.	1.2	21
92	Threshold Collision-Induced Dissociation of Proton-Bound Hydrazine and Dimethylhydrazine Clusters. Journal of Physical Chemistry A, 2016, 120, 9690-9701.	1.1	5
93	Bond energies of ThO <sup>+</sup> and ThC <sup>+</sup> : A guided ion beam and quantum chemical investigation of the reactions of thorium cation with O <sub>2</sub> and CO. Journal of Chemical Physics, 2016, 144, 184309.	1.2	48
94	Threshold collision-induced dissociation of protonated hydrazine and dimethylhydrazine clustered with water. Journal of Chemical Physics, 2016, 145, 214311.	1.2	4
95	Activation of carbon dioxide by a terminal uranium–nitrogen bond in the gas-phase: a demonstration of the principle of microscopic reversibility. Physical Chemistry Chemical Physics, 2016, 18, 7334-7340.	1.3	42
96	Zn <sup>2+</sup> and Cd <sup>2+</sup> cationized serine complexes: infrared multiple photon dissociation spectroscopy and density functional theory investigations. Physical Chemistry Chemical Physics, 2016, 18, 22434-22445.	1.3	21
97	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Asparagine Complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> and Their Deamidation Processes. Journal of Physical Chemistry B, 2016, 120, 12486-12500.	1.2	16
98	Activation of C–H Bonds in Pt <sup>+</sup> + x CH <sub>4</sub> Reactions, where x = 1–4: Identification of the Platinum Dimethyl Cation. Journal of Physical Chemistry A, 2016, 120, 6216-6227.	1.1	41
99	Gadolinium (Gd) Oxide, Carbide, and Carbonyl Cation Bond Energies and Evaluation of the Gd + O → GdO <sup>+</sup> + e <sup>-</sup> Chemi-Ionization Reaction Enthalpy. Journal of Physical Chemistry A, 2016, 120, 8550-8563.	1.1	30
100	Chemi-ionization reactions of La, Pr, Tb, and Ho with atomic O and La with N <sub>2</sub> O from 200 to 450 K. Journal of Chemical Physics, 2016, 145, 084302.	1.2	11
101	Thermodynamics and Mechanisms of Protonated Asparaginy-Glycine Decomposition. Journal of Physical Chemistry B, 2016, 120, 6525-6545.	1.2	16
102	Reactions of Th <sup>+</sup> + H <sub>2</sub> , D <sub>2</sub> , and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Quantum Chemical Calculations. Journal of Physical Chemistry B, 2016, 120, 1601-1614.	1.2	29
103	Cationic Noncovalent Interactions: Energetics and Periodic Trends. Chemical Reviews, 2016, 116, 5642-5687.	23.0	126
104	Discriminating Properties of Alkali Metal Ions Towards the Constituents of Proteins and Nucleic Acids. Conclusions from Gas-Phase and Theoretical Studies. Metal Ions in Life Sciences, 2016, 16, 103-131.	2.8	4
105	Hydrated Copper Ion Chemistry: Guided Ion Beam and Computational Investigation of Cu <sup>2+</sup> (H <sub>2</sub> O) <sub>n</sub> ( <i>n</i> = 7–10) Complexes. European Journal of Mass Spectrometry, 2015, 21, 497-516.	0.5	16
106	Guided Ion Beam and Computational Studies of the Decomposition of a Model Thiourea Protein Cross-Linker. Journal of Physical Chemistry B, 2015, 119, 3727-3742.	1.2	1
107	Activation of CH <sub>4</sub> by Th <sup>+</sup> as Studied by Guided Ion Beam Mass Spectrometry and Quantum Chemistry. Inorganic Chemistry, 2015, 54, 3584-3599.	1.9	34
108	Structural characterization of gas-phase cysteine and cysteine methyl ester complexes with zinc and cadmium dications by infrared multiple photon dissociation spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 25799-25808.	1.3	33

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109	Hydration Enthalpies of Ba <sup>2+</sup> (H <sub>2</sub> O) <sub><i>x</i></sub> , <i>x</i> = 1–8: A Threshold Collision-Induced Dissociation and Computational Investigation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3800-3815.	1.1	21
110	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O → SmO <sup>+</sup> + e <sup>-</sup> . <i>Journal of Chemical Physics</i> , 2015, 142, 134307.	1.2	44
111	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Glutamine Complexes with Zn <sup>2+</sup> and Cd <sup>2+</sup> . <i>Journal of Physical Chemistry B</i> , 2015, 119, 11607-11617.	1.2	27
112	Iron cluster–CO bond energies from the kinetic energy dependence of the Fe <sub><i>n</i></sub> <sup>+</sup> (n = 4–17) + CO association reactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26467-26477.	1.3	14
113	Thermodynamics and Mechanism of Protonated Cysteine Decomposition: A Guided Ion Beam and Computational Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 512-523.	1.2	8
114	Guided Ion Beam Studies of the Collision-Induced Dissociation of CuOH <sup>+</sup> (H <sub>2</sub> O) <sub><i>n</i></sub> ( <i>n</i> = 1–4): Comprehensive Thermodynamic Data for Copper Ion Hydration. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10210-10222.	1.1	26
115	Gas-phase perspective on the thermodynamics and kinetics of heterogeneous catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 2741-2755.	2.1	24
116	Metal Cation Dependence of Interactions with Amino Acids: Bond Dissociation Energies of Rb <sup>+</sup> and Cs <sup>+</sup> to the Acidic Amino Acids and Their Amide Derivatives. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4300-4314.	1.2	22
117	Theoretical investigation and reinterpretation of the decomposition of lithiated proline and N-methyl proline. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 16-28.	0.7	11
118	Alkali Metal Cation Interactions with 15-Crown-5 in the Gas Phase: Revisited. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8088-8097.	1.1	23
119	The Power of Accurate Energetics (or Thermochemistry: What is it Good for?). <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 173-185.	1.2	29
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