Peter Armentrout

List of Publications by Year in descending order

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425 papers	25,409 citations	4388 86 h-index	11939 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. Mass Spectrometry Reviews, 2023, 42, 928-953.	5.4	5
2	Periodic trends in gasâ€phase oxidation and hydrogenation reactions of lanthanides and 5d transition metal cations. Mass Spectrometry Reviews, 2022, 41, 606-626.	5.4	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, OTh⁺CCO. Physical Chemistry Chemical Physics, 2022, 24, 842-853.	2.8	1
4	Reactions of atomic thorium and uranium cations with CF4 studied by guided ion beam tandem mass spectrometry. International Journal of Mass Spectrometry, 2022, 472, 116778.	1.5	6
5	Thermodynamics and Reaction Mechanisms for Decomposition of a Simple Protonated Tripeptide, H⁺GGA: From H⁺GGG to H⁺GAG to H⁺GGA. Journal of the American Society for Mass Spectrometry, 2022, 33, 355-368.	2.8	3
6	IR Spectroscopic Characterization of Methane Adsorption on Copper Clusters Cu_n⁺ (n = 2â€“4). Journal of the American Society for Mass Spectrometry, 2022, 33, 1393-1400.	2.8	4
7	Reactions of Atomic Thorium and Uranium Cations with SF₆ Studied by Guided Ion Beam Tandem Mass Spectrometry. Journal of Physical Chemistry A, 2022, , .	2.5	1
8	Potassium Binding Interactions with Aliphatic Amino Acids: Thermodynamic and Entropic Effects Analyzed via a Guided Ion Beam and Computational Study. Journal of the American Society for Mass Spectrometry, 2022, 33, 1427-1442.	2.8	3
9	Activation of CO₂ by Actinide Cations (Th⁺, U⁺, Pu⁺,) Tj ETQq1 1 0.784314 rgBT /O Inorganic Chemistry, 2022, 61, 8168-8181.	4.0	5
10	Thermochemistry and mechanisms of the Pt+ + SO2 reaction from guided ion beam tandem mass spectrometry and theory. Journal of Chemical Physics, 2022, 156, .	3.0	0
11	Câ€“H Bond Activation and Câ€“C Coupling of Methane on a Single Cationic Platinum Center: A Spectroscopic and Theoretical Study. Inorganic Chemistry, 2022, 61, 11252-11260.	4.0	7
12	Zinc and cadmium complexation of Lâ€methionine: An infrared multiple photon dissociation spectroscopy and theoretical study. Journal of Mass Spectrometry, 2021, 56, e4580.	1.6	4
13	Quantum electronic control on chemical activation of methane by collision with spinâ€“orbit state selected vanadium cation. Physical Chemistry Chemical Physics, 2021, 23, 273-286.	2.8	7
14	Evaluation of the Pr + O â†’ PrO⁺ + e^{â^’} chemi-ionization reaction enthalpy and praseodymium oxide, carbide, dioxide, and carbonyl cation bond energies. Physical Chemistry Chemical Physics, 2021, 23, 2938-2952.	2.8	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. Journal of the American Society for Mass Spectrometry, 2021, 32, 786-805.	2.8	3
16	Thermochemistry of the Ir+ + SO2 reaction using guided ion beam tandem mass spectrometry and theory. Journal of Chemical Physics, 2021, 154, 124302.	3.0	3
17	Relative Energetics of the Gas Phase Protomers of p-Aminobenzoic Acid and the Effect of Protonation Site on Fragmentation. Journal of Physical Chemistry A, 2021, 125, 2849-2865.	2.5	17
18	Activation of D2 by Neodymium Cation (Nd+): Bond Energy of NdH+ and Mechanistic Insights through Experimental and Theoretical Studies. Journal of Physical Chemistry A, 2021, 125, 2999-3008.	2.5	2

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19	Structural characterization of [M,C,2H]+ products formed by reaction of 5d metal cations Pt+ and Ir+ with ethylene oxide and Ta+ with methane using messenger spectroscopy. Journal of Molecular Spectroscopy, 2021, 378, 111472.	1.2	8
20	Infrared Multiple-Photon Dissociation Spectra of Sodiated Complexes of the Aliphatic Amino Acids. Journal of Physical Chemistry A, 2021, 125, 6348-6355.	2.5	6
21	Sodium Binding Interactions with Aliphatic Amino Acids: A Guided Ion Beam and Computational Study. Journal of Physical Chemistry A, 2021, 125, 6332-6347.	2.5	6
22	Guided Ion Beam Studies of the Thorium Monocarbonyl Cation Bond Dissociation Energy and Theoretical Unveiling of Different Isomers of [Th,O,C]⁺ and Their Rearrangement Mechanism. Inorganic Chemistry, 2021, 60, 10426-10438.	4.0	5
23	Holmium (Ho) oxide, carbide, and dioxide cation bond energies and evaluation of the Ho + O â†' HoO+â€+ eâ^' chemi-ionization reaction enthalpy. Journal of Chemical Physics, 2021, 155, 094303.	3.0	7
24	Reactions of U⁺ with H₂, D₂, and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Theory. Journal of Physical Chemistry A, 2021, 125, 7825-7839.	2.5	12
25	An investigation of inter-ligand coordination and flexibility: IRMPD spectroscopic and theoretical evaluation of calcium and nickel histidine dimers. Journal of Molecular Spectroscopy, 2021, 381, 111532.	1.2	5
26	Thermochemical studies of hydrated manganese dications, Mn2+(H2O) (xÂ=Â4â€“9), using guided ion beam tandem mass spectrometry. International Journal of Mass Spectrometry, 2021, 468, 116638.	1.5	1
27	Cryo spectroscopy of N2 on cationic iron clusters. Journal of Chemical Physics, 2021, 155, 244305.	3.0	15
28	Determination of the SmO+ bond energy by threshold photodissociation of the cryogenically cooled ion. Journal of Chemical Physics, 2021, 155, 174303.	3.0	15
29	Infrared multiple photon dissociation action spectroscopy of protonated unsymmetrical dimethylhydrazine and proton-bound dimers of hydrazine and unsymmetrical dimethylhydrazine. Physical Chemistry Chemical Physics, 2021, 23, 25877-25885.	2.8	2
30	Kinetics of stepwise nitrogen adsorption by size-selected iron cluster cations: Evidence for size-dependent nitrogen phobia. Journal of Chemical Physics, 2021, 155, 244306.	3.0	7
31	Comment on â€œGas-phase ion-molecule interactions in a collision reaction cell with triple quadrupole-inductively coupled plasma mass spectrometry: Investigations with N2O as the reaction gasâ€•by Khadouja Harouaka, Caleb Allen, Eric Bylaska, Richard M Cox, Gregory C. Eiden, Maria Laura di Vacri, Eric W. Hoppe, Isaac J. Arnquist. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, , 106345.	2.9	0
32	Guided Ion Beam Tandem Mass Spectrometry and Theoretical Study of SO₂ Activated by Os⁺. Journal of Physical Chemistry A, 2020, 124, 6629-6644.	2.5	8
33	Praseodymium cation (Pr+) reactions with H2, D2, and HD: PrH+ bond energy and mechanistic insights from guided ion beam and theoretical studies. Journal of Chemical Physics, 2020, 153, 144304.	3.0	4
34	Water Loss from Protonated XxxSer and XxxThr Dipeptides Gives Oxazolineâ€"Not Oxazoloneâ€"Product Ions. Journal of the American Society for Mass Spectrometry, 2020, 31, 2111-2123.	2.8	6
35	Cis-trans isomerization is not rate determining for b2 ion structures: AÂguided ion beam and computational study of the decomposition of H+(GlyProAla). International Journal of Mass Spectrometry, 2020, 458, 116434.	1.5	4
36	What is the Bond Dissociation Energy of the Vanadium Hydride Cation?. Journal of Physical Chemistry A, 2020, 124, 5306-5313.	2.5	4

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37	Cerium Cation (Ce⁺) Reactions with H₂, D₂, and HD: CeH⁺ Bond Energy and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. Journal of Physical Chemistry A, 2020, 124, 2560-2572.	2.5	11
38	Methane Adducts of Gold Dimer Cations: Thermochemistry and Structure from Collision-Induced Dissociation and Association Kinetics. Journal of Physical Chemistry A, 2020, 124, 3335-3346.	2.5	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. Inorganic Chemistry, 2020, 59, 3118-3131.	4.0	16
40	Thermochemical studies of reactions of Re+ with SO2 using guided ion beam experiments and theory. Physical Chemistry Chemical Physics, 2020, 22, 3191-3203.	2.8	7
41	Threshold Collision-Induced Dissociation of Hydrated Thorium(IV) Trihydroxide Cation: Experimental and Theoretical Investigation of the Binding Energies for Th(OH)3+(H2O)nComplexes (n= 1â€“4). Journal of Physical Chemistry A, 2020, 124, 3090-3100.	2.5	7
42	IRMPD Spectroscopic and Theoretical Structural Investigations of Zinc and Cadmium Dications Bound to Histidine Dimers. Journal of Physical Chemistry A, 2020, 124, 10266-10276.	2.5	6
43	Structural and Energetic Effects of O2â€²-Ribose Methylation of Protonated Pyrimidine Nucleosides. Journal of the American Society for Mass Spectrometry, 2019, 30, 2318-2334.	2.8	5
44	Bond energy of ThN+: A guided ion beam and quantum chemical investigation of the reactions of thorium cation with N2 and NO. Journal of Chemical Physics, 2019, 151, 034304.	3.0	20
45	Zinc and Cadmium Complexation of <scp>l</scp>-Threonine: An Infrared Multiple Photon Dissociation Spectroscopy and Theoretical Study. Journal of Physical Chemistry B, 2019, 123, 9343-9354.	2.6	14
46	Benzhydrylpyridinium Ions: A New Class of Thermometer Ions for the Characterization of Electrospray-Ionization Mass Spectrometers. Analytical Chemistry, 2019, 91, 11703-11711.	6.5	23
47	Infrared Spectroscopy of Gold Carbene Cation (AuCH₂⁺): Covalent or Dative Bonding?. Journal of Physical Chemistry A, 2019, 123, 8932-8941.	2.5	11
48	Experimental and Computational Study of the Group 1 Metal Cation Chelates with Lysine: Bond Dissociation Energies, Structures, and Structural Trends. Journal of Physical Chemistry B, 2019, 123, 1983-1997.	2.6	11
49	Hydration Energies of Iron Hydroxide Cation: A Guided Ion Beam and Theoretical Investigation. Journal of Physical Chemistry A, 2019, 123, 1675-1688.	2.5	2
50	Evaluation of the exothermicity of the chemi-ionization reaction Nd + O â† NdO+ + eâ^' and neodymium oxide, carbide, dioxide, and carbonyl cation bond energies. Journal of Chemical Physics, 2019, 150, 144309.	3.0	22
51	Mechanism and Energetics of the Hydrolysis of Th⁺To Form Th(OD)₃⁺: Guided Ion Beam and Theoretical Studies of ThO⁺, ThO₂⁺, and OThOD⁺Reacting with D₂O. Journal of Physical Chemistry A, 2019, 123, 5893-5905.	2.5	10
52	Activation of Water by Thorium Cation: A Guided Ion Beam and Quantum Chemical Study. Journal of the American Society for Mass Spectrometry, 2019, 30, 1835-1849.	2.8	13
53	Metallacyclopropene structures identified by IRMPD spectroscopic investigation of the dehydrogenation reactions of Ta+ and TaO+ with ethene. International Journal of Mass Spectrometry, 2019, 442, 83-94.	1.5	5
54	Infrared multiple photon dissociation action spectroscopy of protonated glycine, histidine, lysine, and arginine complexed with 18-crown-6 ether. Physical Chemistry Chemical Physics, 2019, 21, 12625-12639.	2.8	9

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55	Ion spectroscopy and guided ion beam studies of protonated asparaginyl-threonine decomposition: Influence of a hydroxyl containing C-Terminal residue on deamidation processes. International Journal of Mass Spectrometry, 2019, 442, 64-82.	1.5	6
56	Au₂⁺ cannot catalyze conversion of methane to ethene at low temperature. Catalysis Science and Technology, 2019, 9, 2767-2780.	4.1	13
57	Bond dissociation energy of Au2+: A guided ion beam and theoretical investigation. Journal of Chemical Physics, 2019, 150, 174305.	3.0	9
58	Sigma bond activation of deuterium mediated by atomic cerium cations: Experiment and theory. International Journal of Mass Spectrometry, 2019, 441, 19-24.	1.5	2
59	Thermodynamics and Reaction Mechanisms for Decomposition of a Simple Protonated Tripeptide, H⁺GAG: a Guided Ion Beam and Computational Study. Journal of the American Society for Mass Spectrometry, 2019, 30, 1013-1027.	2.8	8
60	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of lysine complexes with Zn²⁺ and Cd²⁺. European Journal of Mass Spectrometry, 2019, 25, 97-111.	1.0	10
61	Robert C. Dunbar (1943â€“2017). European Journal of Mass Spectrometry, 2019, 25, 4-7.	1.0	0
62	Sequential activation of methane by Ir+: An IRMPD and theoretical investigation. International Journal of Mass Spectrometry, 2019, 435, 78-92.	1.5	18
63	Deamidation of Protonated Asparagineâ€“Valine Investigated by a Combined Spectroscopic, Guided Ion Beam, and Theoretical Study. Journal of Physical Chemistry A, 2018, 122, 2424-2436.	2.5	13
64	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Aspartic Acid Complexes with Zn²⁺ and Cd²⁺. Journal of Physical Chemistry B, 2018, 122, 3836-3853.	2.6	13
65	Spectroscopic Identification of the Carbyne Hydride Structure of the Dehydrogenation Product of Methane Activation by Osmium Cations. Journal of the American Society for Mass Spectrometry, 2018, 29, 1781-1790.	2.8	19
66	Structures of the dehydrogenation products of methane activation by 5d transition metal cations revisited: Deuterium labeling and rotational contours. Journal of Chemical Physics, 2018, 148, 044307.	3.0	24
67	Lanthanides as Catalysts: Guided Ion Beam and Theoretical Studies of Sm⁺ + COS. Journal of Physical Chemistry A, 2018, 122, 737-749.	2.5	12
68	Activation of CO2 by Gadolinium Cation (Gd+): Energetics and Mechanism from Experiment and Theory. Topics in Catalysis, 2018, 61, 3-19.	2.8	19
69	Activation of H₂ by Gadolinium Cation (Gd⁺): Bond Energy of GdH⁺ and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. Journal of Physical Chemistry A, 2018, 122, 750-761.	2.5	8
70	Binding energies of hydrated cobalt(<scp>ii</scp>) by collision-induced dissociation and theoretical studies: evidence for a new critical size. Physical Chemistry Chemical Physics, 2018, 20, 802-818.	2.8	7
71	Protonated Asparaginyl-Alanine Decomposition: a TCID, SORI-CID, and Computational Analysis. Journal of the American Society for Mass Spectrometry, 2018, 29, 2341-2359.	2.8	7
72	Samarium cation (Sm+) reactions with H2, D2, and HD: SmH+ bond energy and mechanistic insights from guided ion beam and theoretical studies. Journal of Chemical Physics, 2018, 149, 164304.	3.0	7

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73	Structural and Energetic Effects of O2â€²-Ribose Methylation of Protonated Purine Nucleosides. Journal of Physical Chemistry B, 2018, 122, 9147-9160.	2.6	16
74	18 electrons and counting. Science, 2018, 361, 849-850.	12.6	12
75	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of arginine complexes with Zn²⁺ and Cd²⁺. Physical Chemistry Chemical Physics, 2018, 20, 20712-20725.	2.8	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.	1.5	9
77	Frontispiece: Methane Activation by 5â€‰d Transition Metals: Energetics, Mechanisms, and Periodic Trends. Chemistry - A European Journal, 2017, 23, .	3.3	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.	5.3	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.	2.8	25
80	Potential energy surface for the reaction Sm⁺ + CO₂ â†' SmO⁺ + CO: guided ion beam and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 11075-11088.	2.8	15
81	Gadolinium cation (Gd+) reaction with O2: Potential energy surface mapped experimentally and with theory. Journal of Chemical Physics, 2017, 146, 174302.	3.0	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.	2.5	10
83	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of glutamic acid complexes with Zn²⁺and Cd²⁺. Physical Chemistry Chemical Physics, 2017, 19, 12394-12406.	2.8	24
84	Reactivity of⁴Fe⁺(CO)_{n=0â€“2}+ O₂: oxidation of CO by O₂at an isolated metal atom. Physical Chemistry Chemical Physics, 2017, 19, 8768-8777.	2.8	4
85	Guided ion beam and theoretical studies of the bond energy of SmS+. Journal of Chemical Physics, 2017, 147, 214307.	3.0	5
86	Threshold collision-induced dissociation and theoretical study of protonated azobenzene. Journal of Chemical Physics, 2017, 147, 164308.	3.0	1
87	Methane Activation by 5â€‰d Transition Metals: Energetics, Mechanisms, and Periodic Trends. Chemistry - A European Journal, 2017, 23, 10-18.	3.3	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.	3.0	2
89	How Hot are Your Ions Really? A Threshold Collision-Induced Dissociation Study of Substituted Benzylpyridinium â€œThermometerâ€•Ions. Journal of the American Society for Mass Spectrometry, 2017, 28, 1876-1888.	2.8	56
90	Binding energies of hydrated cobalt hydroxide ion complexes: A guided ion beam and theoretical investigation. Journal of Chemical Physics, 2017, 147, 064305.	3.0	5

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91	Guided ion beam and theoretical studies of the reactions of Re+, Os+, and Ir+ with CO. Journal of Chemical Physics, 2016, 145, 194305.	3.0	21
92	Threshold Collision-Induced Dissociation of Proton-Bound Hydrazine and Dimethylhydrazine Clusters. Journal of Physical Chemistry A, 2016, 120, 9690-9701.	2.5	5
93	Bond energies of ThO+ and ThC+: A guided ion beam and quantum chemical investigation of the reactions of thorium cation with O2 and CO. Journal of Chemical Physics, 2016, 144, 184309.	3.0	48
94	Threshold collision-induced dissociation of protonated hydrazine and dimethylhydrazine clustered with water. Journal of Chemical Physics, 2016, 145, 214311.	3.0	4
95	Activation of carbon dioxide by a terminal uraniumâ€“nitrogen bond in the gas-phase: a demonstration of the principle of microscopic reversibility. Physical Chemistry Chemical Physics, 2016, 18, 7334-7340.	2.8	42
96	Zn²⁺ and Cd²⁺ cationized serine complexes: infrared multiple photon dissociation spectroscopy and density functional theory investigations. Physical Chemistry Chemical Physics, 2016, 18, 22434-22445.	2.8	21
97	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Asparagine Complexes with Zn²⁺ and Cd²⁺ and Their Deamidation Processes. Journal of Physical Chemistry B, 2016, 120, 12486-12500.	2.6	16
98	Activation of Câ€“H Bonds in Pt+ + x CH4 Reactions, where x = 1â€“4: Identification of the Platinum Dimethyl Cation. Journal of Physical Chemistry A, 2016, 120, 6216-6227.	2.5	41
99	Gadolinium (Gd) Oxide, Carbide, and Carbonyl Cation Bond Energies and Evaluation of the Gd + O â†' GdO⁺ + e^{â€“} Chemi-Ionization Reaction Enthalpy. Journal of Physical Chemistry A, 2016, 120, 8550-8563.	2.5	30
100	Chemi-ionization reactions of La, Pr, Tb, and Ho with atomic O and La with N2O from 200 to 450 K. Journal of Chemical Physics, 2016, 145, 084302.	3.0	11
101	Thermodynamics and Mechanisms of Protonated Asparaginyl-Glycine Decomposition. Journal of Physical Chemistry B, 2016, 120, 6525-6545.	2.6	16
102	Reactions of Th⁺ + H₂, D₂, and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Quantum Chemical Calculations. Journal of Physical Chemistry B, 2016, 120, 1601-1614.	2.6	29
103	Cationic Noncovalent Interactions: Energetics and Periodic Trends. Chemical Reviews, 2016, 116, 5642-5687.	47.7	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 Cu²⁺(H₂O)_n (n = 7â€“10) Complexes. European Journal of Mass Spectrometry, 2015, 21, 497-516.	1.0	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.	2.6	1
107	Activation of CH₄ by Th⁺ as Studied by Guided Ion Beam Mass Spectrometry and Quantum Chemistry. Inorganic Chemistry, 2015, 54, 3584-3599.	4.0	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.	2.8	33

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109	Hydration Enthalpies of Ba²⁺(H₂O)_x, x = 1â€“8: A Threshold Collision-Induced Dissociation and Computational Investigation. Journal of Physical Chemistry A, 2015, 119, 3800-3815.	2.5	21
110	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O â† SmO+ + eâ^'. Journal of Chemical Physics, 2015, 142, 134307.	3.0	44
111	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Glutamine Complexes with Zn²⁺ and Cd²⁺. Journal of Physical Chemistry B, 2015, 119, 11607-11617.	2.6	27
112	Iron clusterâ€“CO bond energies from the kinetic energy dependence of the Fe_n⁺(n = 4â€“17) + CO association reactions. Physical Chemistry Chemical Physics, 2014, 16, 26467-26477.	2.8	14
113	Thermodynamics and Mechanism of Protonated Cysteine Decomposition: A Guided Ion Beam and Computational Study. Journal of the American Society for Mass Spectrometry, 2014, 25, 512-523.	2.8	8
114	Guided Ion Beam Studies of the Collision-Induced Dissociation of CuOH⁺(H₂O)_n (n = 1â€“4): Comprehensive Thermodynamic Data for Copper Ion Hydration. Journal of Physical Chemistry A, 2014, 118, 10210-10222.	2.5	26
115	Gas-phase perspective on the thermodynamics and kinetics of heterogeneous catalysis. Catalysis Science and Technology, 2014, 4, 2741-2755.	4.1	24
116	Metal Cation Dependence of Interactions with Amino Acids: Bond Dissociation Energies of Rb⁺ and Cs⁺ to the Acidic Amino Acids and Their Amide Derivatives. Journal of Physical Chemistry B, 2014, 118, 4300-4314.	2.6	22
117	Theoretical investigation and reinterpretation of the decomposition of lithiated proline and N-methyl proline. International Journal of Mass Spectrometry, 2014, 370, 16-28.	1.5	11
118	Alkali Metal Cation Interactions with 15-Crown-5 in the Gas Phase: Revisited. Journal of Physical Chemistry A, 2014, 118, 8088-8097.	2.5	23
119	The Power of Accurate Energetics (or Thermochemistry: What is it Good for?). Journal of the American Society for Mass Spectrometry, 2013, 24, 173-185.	2.8	29
120	Metalâ€“Cyclopentadienyl Bond Energies in Metallocene Cations Measured Using Threshold Collision-Induced Dissociation Mass Spectrometry. Journal of Physical Chemistry A, 2013, 117, 1299-1309.	2.5	19
121	Metal Cation Dependence of Interactions with Amino Acids: Bond Energies of Rb⁺ and Cs⁺ to Met, Phe, Tyr, and Trp. Journal of Physical Chemistry B, 2013, 117, 3771-3781.	2.6	46
122	Activation of Methane by Os⁺: Guidedâ€Ionâ€Beam and Theoretical Studies. ChemPlusChem, 2013, 78, 1157-1173.	2.8	42
123	Guided ion-beam and theoretical studies of the reaction of Os+ (6D) with O2: Adiabatic and nonadiabatic behavior. International Journal of Mass Spectrometry, 2013, 354-355, 87-98.	1.5	25
124	Role of methylation on the thermochemistry of alkali metal cation complexes of amino acids: N-methyl proline. International Journal of Mass Spectrometry, 2013, 345-347, 109-119.	1.5	7
125	Structures of the Dehydrogenation Products of Methane Activation by 5d Transition Metal Cations. Journal of Physical Chemistry A, 2013, 117, 4115-4126.	2.5	89
126	Bond Energy of IrO⁺: Guided Ion-Beam and Theoretical Studies of the Reaction of Ir⁺ (⁵F) with O₂. Journal of Physical Chemistry A, 2013, 117, 7754-7766.	2.5	25

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127	Threshold Collision-Induced Dissociation and Theoretical Studies of Hydrated Fe(II): Binding Energies and Coulombic Barrier Heights. Journal of Physical Chemistry A, 2013, 117, 1110-1123.	2.5	28
128	The bond energy of ReO+: Guided ion-beam and theoretical studies of the reaction of Re+ (7S) with O2. Journal of Chemical Physics, 2013, 139, 084305.	3.0	30
129	Threshold Collisionâ€Induced Dissociation of Hydrated Magnesium: Experimental and Theoretical Investigation of the Binding Energies for Mg²⁺(H₂O)_x Complexes (x=2â€“10). ChemPhysChem, 2013, 14, 681-697.	2.1	31
130	Thermochemistry of Non-Covalent Ionâ€“Molecule Interactions. Mass Spectrometry, 2013, 2, S0005-S0005.	0.6	3
131	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Histidine: Effects of Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2012, 116, 1532-1541.	2.5	59
132	Infrared multiple photon dissociation spectroscopy of protonated histidine and 4-phenyl imidazole. International Journal of Mass Spectrometry, 2012, 330-332, 6-15.	1.5	19
133	Alkali metal cation interactions with 12-crown-4 in the gas phase: Revisited. International Journal of Mass Spectrometry, 2012, 330-332, 16-26.	1.5	24
134	Experimental Investigation of the Complete Inner Shell Hydration Energies of Ca²⁺: Threshold Collision-Induced Dissociation of Ca²⁺(H₂O)_x Complexes (x = 2â€“8). Journal of Physical Chemistry A, 2012, 116, 3802-3815.	2.5	36
135	Thermochemistry of Alkali Metal Cation Interactions with Histidine: Influence of the Side Chain. Journal of Physical Chemistry A, 2012, 116, 11823-11832.	2.5	29
136	Metal Cation Dependence of Interactions with Amino Acids: Bond Energies of Cs⁺ to Gly, Pro, Ser, Thr, and Cys. Journal of Physical Chemistry A, 2012, 116, 3989-3999.	2.5	51
137	Thermodynamics and Mechanisms of Protonated Diglycine Decomposition: A Computational Study. Journal of the American Society for Mass Spectrometry, 2012, 23, 621-631.	2.8	37
138	Thermodynamics and Mechanisms of Protonated Diglycine Decomposition: A Guided Ion Beam Study. Journal of the American Society for Mass Spectrometry, 2012, 23, 632-643.	2.8	27
139	The simplest b2+ ion: Determining its structure from its energetics by a direct comparison of the threshold collision-induced dissociation of protonated oxazolone and diketopiperazine. International Journal of Mass Spectrometry, 2012, 316-318, 182-191.	1.5	21
140	Thermodynamics and Mechanisms for Decomposition of Protonated Glycine and Its Protonated Dimer. Journal of Physical Chemistry A, 2011, 115, 11144-11155.	2.5	39
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