

Peter Armentrout

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

414
papers

23,039
citations

82
h-index

127
g-index

431
ext. papers

24,183
ext. citations

4.7
avg, IF

7.2
L-index

#	Paper	IF	Citations
414	Reactions of atomic thorium and uranium cations with CF ₄ studied by guided ion beam tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2022 , 472, 116778	1.9	0
413	Thermochemistry and mechanisms of the Pt ⁺ + SO ₂ reaction from guided ion beam tandem mass spectrometry and theory. <i>Journal of Chemical Physics</i> , 2022 , 156, 194301	3.9	
412	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	3.9	1
411	Cryo spectroscopy of N on cationic iron clusters.. <i>Journal of Chemical Physics</i> , 2021 , 155, 244305	3.9	3
410	Determination of the SmO bond energy by threshold photodissociation of the cryogenically cooled ion. <i>Journal of Chemical Physics</i> , 2021 , 155, 174303	3.9	2
409	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	3.6	
408	Thermochemistry of the Ir + SO reaction using guided ion beam tandem mass spectrometry and theory. <i>Journal of Chemical Physics</i> , 2021 , 154, 124302	3.9	2
407	Relative Energetics of the Gas Phase Protomers of -Aminobenzoic Acid and the Effect of Protonation Site on Fragmentation. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2849-2865	2.8	6
406	Activation of D by Neodymium Cation (Nd): Bond Energy of NdH and Mechanistic Insights through Experimental and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2999-3008	2.8	1
405	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. <i>Journal of Molecular Spectroscopy</i> , 2021 , 378, 111472	1.3	1
404	Periodic trends in gas-phase oxidation and hydrogenation reactions of lanthanides and 5d transition metal cations. <i>Mass Spectrometry Reviews</i> , 2021 ,	11	2
403	Infrared Multiple-Photon Dissociation Spectra of Sodiated Complexes of the Aliphatic Amino Acids. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 6348-6355	2.8	4
402	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	2.8	2
401	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. <i>Inorganic Chemistry</i> , 2021 , 60, 10426-10438	5.1	0
400	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	3.6	6
399	Evaluation of the Pr + O ⁻ + jPrO + 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	3.6	7
398	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	3.5	1

397	Holmium (Ho) oxide, carbide, and dioxide cation bond energies and evaluation of the Ho + O → jHoO + e chemi-ionization reaction enthalpy. <i>Journal of Chemical Physics</i> , 2021 , 155, 094303	3.9	0
396	Reactions of U with H, D, and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Theory. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7825-7839	2.8	2
395	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	1.3	1
394	Thermochemical studies of hydrated manganese dications, Mn ²⁺ (H ₂ O) _x (x = 4-9), using guided ion beam tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2021 , 468, 116638	1.9	
393	Comment on Gas-phase ion-molecule interactions in a collision reaction cell with triple quadrupole-inductively coupled plasma mass spectrometry: Investigations with N ₂ O as the reaction gas by Khadouja Harouaka, Caleb Allen, Eric Bylaska, Richard M Cox, Gregory C. Eiden, Maria Laura di Vaghi, Eric W. Hoppe, Isaac J. Arnquist. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021 , 270, 86003	3.1	
392	Cis-trans isomerization is not rate determining for b ₂ ion structures: A guided ion beam and computational study of the decomposition of H ⁺ (GlyProAla). <i>International Journal of Mass Spectrometry</i> , 2020 , 458, 116434	1.9	1
391	What is the Bond Dissociation Energy of the Vanadium Hydride Cation?. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5306-5313	2.8	4
390	Cerium Cation (Ce) Reactions with H, D, and HD: CeH Bond Energy and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 2560-2572	2.8	7
389	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	2.8	7
388	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	5.1	4
387	Thermochemical studies of reactions of Re with SO using guided ion beam experiments and theory. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3191-3203	3.6	6
386	Threshold Collision-Induced Dissociation of Hydrated Thorium(IV) Trihydroxide Cation: Experimental and Theoretical Investigation of the Binding Energies for Th(OH)(HO) Complexes (= 1-4). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3090-3100	2.8	2
385	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	2.8	2
384	Guided Ion Beam Tandem Mass Spectrometry and Theoretical Study of SO Activated by Os. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6629-6644	2.8	5
383	Praseodymium cation (Pr) reactions with H, D, and HD: PrH bond energy and mechanistic insights from guided ion beam and theoretical studies. <i>Journal of Chemical Physics</i> , 2020 , 153, 144304	3.9	4
382	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	3.5	3
381	Zinc and cadmium complexation of L-methionine: An infrared multiple photon dissociation spectroscopy and theoretical study. <i>Journal of Mass Spectrometry</i> , 2020 , 56, e4580	2.2	2
380	Benzhydrylpyridinium Ions: A New Class of Thermometer Ions for the Characterization of Electrospray-Ionization Mass Spectrometers. <i>Analytical Chemistry</i> , 2019 , 91, 11703-11711	7.8	12

379	Infrared Spectroscopy of Gold Carbene Cation (AuCH): Covalent or Dative Bonding?. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 8932-8941	2.8	5
378	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	3.4	5
377	Hydration Energies of Iron Hydroxide Cation: A Guided Ion Beam and Theoretical Investigation. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1675-1688	2.8	1
376	Evaluation of the exothermicity of the chemi-ionization reaction $\text{Nd} + \text{O} \rightarrow \text{NdO} + \text{e}$ and neodymium oxide, carbide, dioxide, and carbonyl cation bond energies. <i>Journal of Chemical Physics</i> , 2019 , 150, 14430-9	3.9	10
375	Mechanism and Energetics of the Hydrolysis of Th To Form Th(OD): Guided Ion Beam and Theoretical Studies of ThO, ThO, and OThOD Reacting with DO. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5893-5905	2.8	6
374	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	3.5	9
373	Metallacyclopropene structures identified by IRMPD spectroscopic investigation of the dehydrogenation reactions of Ta ⁺ and TaO ⁺ with ethene. <i>International Journal of Mass Spectrometry</i> , 2019 , 442, 83-94	1.9	2
372	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	3.6	5
371	Ion spectroscopy and guided ion beam studies of protonated asparaginyl-threonine decomposition: Influence of a hydroxyl containing C-Terminal residue on deamidation processes. <i>International Journal of Mass Spectrometry</i> , 2019 , 442, 64-82	1.9	4
370	Au ²⁺ cannot catalyze conversion of methane to ethene at low temperature. <i>Catalysis Science and Technology</i> , 2019 , 9, 2767-2780	5.5	9
369	Bond dissociation energy of Au : A guided ion beam and theoretical investigation. <i>Journal of Chemical Physics</i> , 2019 , 150, 174305	3.9	8
368	Sigma bond activation of deuterium mediated by atomic cerium cations: Experiment and theory. <i>International Journal of Mass Spectrometry</i> , 2019 , 441, 19-24	1.9	1
367	Thermodynamics and Reaction Mechanisms for Decomposition of a Simple Protonated Tripeptide, HGAG: a Guided Ion Beam and Computational Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1013-1027	3.5	3
366	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of lysine complexes with Zn and Cd. <i>European Journal of Mass Spectrometry</i> , 2019 , 25, 97-111	1.1	7
365	Robert C. Dunbar (1943-2017). <i>European Journal of Mass Spectrometry</i> , 2019 , 25, 4-7	1.1	
364	Structural and Energetic Effects of O2'-Ribose Methylation of Protonated Pyrimidine Nucleosides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2318-2334	3.5	3
363	Bond energy of ThN: A guided ion beam and quantum chemical investigation of the reactions of thorium cation with N and NO. <i>Journal of Chemical Physics</i> , 2019 , 151, 034304	3.9	11
362	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	3.4	8

361	Sequential activation of methane by Ir ⁺ : An IRMPD and theoretical investigation. <i>International Journal of Mass Spectrometry</i> , 2019 , 435, 78-92	1.9	10
360	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	2.8	9
359	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Aspartic Acid Complexes with Zn and Cd. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 3836-3853	3.4	11
358	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	3.5	12
357	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	3.9	16
356	Lanthanides as Catalysts: Guided Ion Beam and Theoretical Studies of Sm + COS. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 737-749	2.8	7
355	Activation of CO ₂ by Gadolinium Cation (Gd ⁺): Energetics and Mechanism from Experiment and Theory. <i>Topics in Catalysis</i> , 2018 , 61, 3-19	2.3	11
354	Activation of H by Gadolinium Cation (Gd): Bond Energy of GdH and Mechanistic Insights from Guided Ion Beam and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 750-761	2.8	8
353	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of arginine complexes with Zn and Cd. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20712-20725	3.6	7
352	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	3.6	5
351	Protonated Asparaginyl-Alanine Decomposition: a TCID, SORI-CID, and Computational Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 2341-2359	3.5	5
350	Samarium cation (Sm) reactions with H, D, and HD: SmH bond energy and mechanistic insights from guided ion beam and theoretical studies. <i>Journal of Chemical Physics</i> , 2018 , 149, 164304	3.9	7
349	Structural and Energetic Effects of O2'-Ribose Methylation of Protonated Purine Nucleosides. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9147-9160	3.4	13
348	18 electrons and counting. <i>Science</i> , 2018 , 361, 849-850	33.3	9
347	Activation of methane by Ru ⁺ : Experimental and theoretical studies of the thermochemistry and mechanism. <i>International Journal of Mass Spectrometry</i> , 2017 , 413, 135-149	1.9	4
346	Bond Dissociation Energies for Diatomic Molecules Containing 3d Transition Metals: Benchmark Scalar-Relativistic Coupled-Cluster Calculations for 20 Molecules. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1044-1056	6.4	60
345	Thermodynamics and Reaction Mechanisms of Decomposition of the Simplest Protonated Tripeptide, Triglycine: A Guided Ion Beam and Computational Study. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 739-757	3.5	17
344	Potential energy surface for the reaction Sm + CO → SmO + CO: guided ion beam and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11075-11088	3.6	8

343	Gadolinium cation (Gd) reaction with O: Potential energy surface mapped experimentally and with theory. <i>Journal of Chemical Physics</i> , 2017 , 146, 174302	3.9	10
342	Thermochemical Investigations of Hydrated Nickel Dication Complexes by Threshold Collision-Induced Dissociation and Theory. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3629-3646	2.8	6
341	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of glutamic acid complexes with Zn and Cd. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12394-12406	3.6	17
340	Reactivity of Fe(CO) + O: oxidation of CO by O at an isolated metal atom. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8768-8777	3.6	3
339	How Hot are Your Ions Really? A Threshold Collision-Induced Dissociation Study of Substituted Benzylpyridinium "Thermometer" Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1876-1888	3.5	38
338	Binding energies of hydrated cobalt hydroxide ion complexes: A guided ion beam and theoretical investigation. <i>Journal of Chemical Physics</i> , 2017 , 147, 064305	3.9	4
337	Guided ion beam and theoretical studies of the bond energy of SmS. <i>Journal of Chemical Physics</i> , 2017 , 147, 214307	3.9	3
336	Threshold collision-induced dissociation and theoretical study of protonated azobenzene. <i>Journal of Chemical Physics</i> , 2017 , 147, 164308	3.9	1
335	Methane Activation by 5 d Transition Metals: Energetics, Mechanisms, and Periodic Trends. <i>Chemistry - A European Journal</i> , 2017 , 23, 10-18	4.8	67
334	Non-adiabatic behavior in the homolytic and heterolytic bond dissociation of protonated hydrazine: A guided ion beam and theoretical investigation. <i>Journal of Chemical Physics</i> , 2017 , 147, 124306	3.9	1
333	Zn(2+) and Cd(2+) cationized serine complexes: infrared multiple photon dissociation spectroscopy and density functional theory investigations. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22434-45	3.6	18
332	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Asparagine Complexes with Zn and Cd and Their Deamidation Processes. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12486-12500	3.4	13
331	Activation of C-H Bonds in Pt(+) + x CH ₄ Reactions, where x = 1-4: Identification of the Platinum Dimethyl Cation. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6216-27	2.8	26
330	Gadolinium (Gd) Oxide, Carbide, and Carbonyl Cation Bond Energies and Evaluation of the Gd + O - j GdO + e Chemi-Ionization Reaction Enthalpy. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8550-8563	2.8	17
329	Chemi-ionization reactions of La, Pr, Tb, and Ho with atomic O and La with N ₂ O from 200 to 450 K. <i>Journal of Chemical Physics</i> , 2016 , 145, 084302	3.9	9
328	Thermodynamics and Mechanisms of Protonated Asparaginy-Glycine Decomposition. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 6525-45	3.4	14
327	Reactions of Th(+) + H ₂ , D ₂ , and HD Studied by Guided Ion Beam Tandem Mass Spectrometry and Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1601-14	3.4	22
326	Cationic Noncovalent Interactions: Energetics and Periodic Trends. <i>Chemical Reviews</i> , 2016 , 116, 5642-8788.1		105

325	Discriminating Properties of Alkali Metal Ions Towards the Constituents of Proteins and Nucleic Acids. Conclusions from Gas-Phase and Theoretical Studies. <i>Metal Ions in Life Sciences</i> , 2016 , 16, 103-31	2.6	2
324	Guided ion beam and theoretical studies of the reactions of Re, Os, and Ir with CO. <i>Journal of Chemical Physics</i> , 2016 , 145, 194305	3.9	15
323	Threshold Collision-Induced Dissociation of Proton-Bound Hydrazine and Dimethylhydrazine Clusters. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9690-9701	2.8	3
322	Bond energies of ThO(+) and ThC(+): A guided ion beam and quantum chemical investigation of the reactions of thorium cation with O ₂ and CO. <i>Journal of Chemical Physics</i> , 2016 , 144, 184309	3.9	34
321	Threshold collision-induced dissociation of protonated hydrazine and dimethylhydrazine clustered with water. <i>Journal of Chemical Physics</i> , 2016 , 145, 214311	3.9	3
320	Activation of carbon dioxide by a terminal uranium-nitrogen bond in the gas-phase: a demonstration of the principle of microscopic reversibility. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7334-40	3.6	32
319	Activation of CH ₄ by Th(+) as studied by guided ion beam mass spectrometry and quantum chemistry. <i>Inorganic Chemistry</i> , 2015 , 54, 3584-99	5.1	27
318	Structural characterization of gas-phase cysteine and cysteine methyl ester complexes with zinc and cadmium dications by infrared multiple photon dissociation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25799-808	3.6	26
317	Hydration Enthalpies of Ba(2+)(H ₂ O) _x , x = 1-8: A Threshold Collision-Induced Dissociation and Computational Investigation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3800-15	2.8	19
316	Evaluation of the exothermicity of the chemi-ionization reaction Sm + O -> SmO(+) + e(-). <i>Journal of Chemical Physics</i> , 2015 , 142, 134307	3.9	32
315	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Glutamine Complexes with Zn(2+) and Cd(2+). <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11607-17	3.4	21
314	Hydrated copper ion chemistry: guided ion beam and computational investigation of Cu ²⁺ (H ₂ O) _n (n = 7-10) complexes. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 497-516	1.1	12
313	Guided ion beam and computational studies of the decomposition of a model thiourea protein cross-linker. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 3727-42	3.4	1
312	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, 512-23	3.5	6
311	Guided ion beam studies of the collision-induced dissociation of CuOH+(H ₂ O) _n (n = 1-4): comprehensive thermodynamic data for copper ion hydration. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10210-22	2.8	22
310	Gas-phase perspective on the thermodynamics and kinetics of heterogeneous catalysis. <i>Catalysis Science and Technology</i> , 2014 , 4, 2741-2755	5.5	19
309	Metal cation dependence of interactions with amino acids: bond dissociation energies of Rb(+) and Cs(+) to the acidic amino acids and their amide derivatives. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4300-14	3.4	17
308	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	1.9	9

307	Alkali metal cation interactions with 15-crown-5 in the gas phase: revisited. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8088-97	2.8	20
306	Iron cluster-CO bond energies from the kinetic energy dependence of the Fe(n)(+) (n = 4-17) + CO association reactions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26467-77	3.6	12
305	The power of accurate energetics (or thermochemistry: what is it good for?). <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 173-85	3.5	24
304	Metal-cyclopentadienyl bond energies in metallocene cations measured using threshold collision-induced dissociation mass spectrometry. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1299-309	2.8	14
303	Metal cation dependence of interactions with amino acids: bond energies of Rb ⁺ and Cs ⁺ to Met, Phe, Tyr, and Trp. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3771-81	3.4	39
302	Activation of Methane by Os : Guided-Ion-Beam and Theoretical Studies. <i>ChemPlusChem</i> , 2013 , 78, 1157-1173	2.8	36
301	Guided ion-beam and theoretical studies of the reaction of Os ⁺ (6D) with O ₂ : Adiabatic and nonadiabatic behavior. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 87-98	1.9	18
300	Role of methylation on the thermochemistry of alkali metal cation complexes of amino acids: N-methyl proline. <i>International Journal of Mass Spectrometry</i> , 2013 , 345-347, 109-119	1.9	5
299	Thermochemistry of non-covalent ion-molecule interactions. <i>Mass Spectrometry</i> , 2013 , 2, S0005	1.7	1
298	Structures of the dehydrogenation products of methane activation by 5d transition metal cations. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4115-26	2.8	74
297	Bond energy of IrO ⁺ : guided ion-beam and theoretical studies of the reaction of Ir ⁺ (5F) with O ₂ . <i>Journal of Physical Chemistry A</i> , 2013 , 117, 7754-66	2.8	19
296	Threshold collision-induced dissociation and theoretical studies of hydrated Fe(II): binding energies and Coulombic barrier heights. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1110-23	2.8	25
295	The bond energy of ReO ⁺ : guided ion-beam and theoretical studies of the reaction of Re ⁺ (7S) with O ₂ . <i>Journal of Chemical Physics</i> , 2013 , 139, 084305	3.9	24
294	Threshold collision-induced dissociation of hydrated magnesium: experimental and theoretical investigation of the binding energies for Mg(2+)(H ₂ O) _x complexes (x=2-10). <i>ChemPhysChem</i> , 2013 , 14, 681-97	3.2	27
293	The simplest b ₂ ⁺ ion: Determining its structure from its energetics by a direct comparison of the threshold collision-induced dissociation of protonated oxazolone and diketopiperazine. <i>International Journal of Mass Spectrometry</i> , 2012 , 316-318, 182-191	1.9	17
292	Infrared multiple photon dissociation spectroscopy of cationized histidine: effects of metal cation size on gas-phase conformation. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 1532-41	2.8	52
291	Infrared multiple photon dissociation spectroscopy of protonated histidine and 4-phenyl imidazole. <i>International Journal of Mass Spectrometry</i> , 2012 , 330-332, 6-15	1.9	19
290	Alkali metal cation interactions with 12-crown-4 in the gas phase: Revisited. <i>International Journal of Mass Spectrometry</i> , 2012 , 330-332, 16-26	1.9	22

289	Experimental investigation of the complete inner shell hydration energies of Ca ²⁺ : threshold collision-induced dissociation of Ca(2+)(H ₂ O) _x Complexes (x = 2-8). <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3802-15	2.8	33
288	Thermochemistry of alkali metal cation interactions with histidine: influence of the side chain. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11823-32	2.8	26
287	Metal cation dependence of interactions with amino acids: bond energies of Cs ⁺ to Gly, Pro, Ser, Thr, and Cys. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3989-99	2.8	45
286	Thermodynamics and mechanisms of protonated diglycine decomposition: a computational study. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 621-31	3.5	35
285	Thermodynamics and mechanisms of protonated diglycine decomposition: a guided ion beam study. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 632-43	3.5	24
284	Collision-induced dissociation of MO ⁺ and MO ₂ ⁺ (M=Ta and W): Metal oxide and dioxide cation bond energies. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 265-274	1.9	27
283	Thermodynamics and mechanisms for decomposition of protonated glycine and its protonated dimer. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 11144-55	2.8	34
282	Structural elucidation of biological and toxicological complexes: investigation of monomeric and dimeric complexes of histidine with multiply charged transition metal (Zn and Cd) cations using IR action spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12648-61	3.4	37
281	Guided ion beam and theoretical study of the reactions of Au ⁺ with H ₂ , D ₂ , and HD. <i>Journal of Chemical Physics</i> , 2011 , 134, 024310	3.9	36
280	Guided ion beam and theoretical study of the reactions of Os ⁺ with H ₂ , D ₂ , and HD. <i>Journal of Chemical Physics</i> , 2011 , 135, 234302	3.9	20
279	Sequential bond energies and barrier heights for the water loss and charge separation dissociation pathways of Cd(2+)(H ₂ O) _n , n = 3-11. <i>Journal of Chemical Physics</i> , 2011 , 134, 114308	3.9	20
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10	Bond energy-bond order relations in transition-metal bonds: vanadium. <i>Journal of the American Chemical Society</i> , 1984 , 106, 4065-4066	16.4	59
9	Metal cluster ions: the bond energy of diatomic manganese(1+). <i>The Journal of Physical Chemistry</i> , 1983 , 87, 3593-3596		92
8	Reaction of Cr^+ , Mn^+ , Fe^+ , Co^+ , and Ni^+ with O_2 and N_2O . Examination of the translational energy dependence of the cross sections of endothermic reactions. <i>Journal of Chemical Physics</i> , 1982 , 76, 2449-2457	3.9	134
7	Cobalt carbene ion: Reactions of Co^+ with C_2H_4 , cyclo- C_3H_6 , and cyclo- C_2H_4O . <i>Journal of Chemical Physics</i> , 1981 , 74, 2819-2826	3.9	56
6	Thermochemistry of uranium halide ions: reactions of uranium(+) with methyl fluoride, silicon tetrafluoride, methyl chloride and carbon tetrachloride. <i>The Journal of Physical Chemistry</i> , 1981 , 85, 4103-4105 ¹⁴		
5	Experimental and theoretical studies of the reaction $Ba^+(D_2, D)BaD^+$: sequential impulse model for endothermic reactions. <i>Chemical Physics</i> , 1980 , 48, 315-320	2.3	36
4	Collision-induced dissociation of UO^+ and UO_2 . <i>Chemical Physics</i> , 1980 , 50, 21-25	2.3	26
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2	Endothermic reactions of Ni^+ with H_2 , HD and D_2 . <i>Chemical Physics</i> , 1980 , 50, 37-43	2.3	20

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