

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 | Translational energy dependence of $\text{Ar}^{++}\text{XY}^{\dagger}\text{ArX}^{++}\text{Y}$ ($\text{XY}=\text{H}_2,\text{D}_2,\text{HD}$) from thermal to 30 eV \AA^{-1} c.m.. Journal of Chemical Physics, 1985, 83, 166-189. | 1.2 | 753 |
| 2 | Statistical modeling of collision-induced dissociation thresholds. Journal of Chemical Physics, 1997, 106, 4499-4508. | 1.2 | 441 |
| 3 | Solvation of Transition Metal Ions by Water. Sequential Binding Energies of $\text{M}+(\text{H}_2\text{O})_x$ ($x = 1-4$) for $\text{M} = \text{Ti}$ to Cu Determined by Collision-Induced Dissociation. Journal of the American Chemical Society, 1994, 116, 3519-3528. | 6.6 | 404 |
| 4 | Sequential bond energies of iron carbonyl $\text{Fe}(\text{CO})_{x+}$ ($x = 1-5$): systematic effects on collision-induced dissociation measurements. Journal of the American Chemical Society, 1991, 113, 8590-8601. | 6.6 | 352 |
| 5 | Noncovalent metal-ligand bond energies as studied by threshold collision-induced dissociation. Mass Spectrometry Reviews, 2000, 19, 215-247. | 2.8 | 333 |
| 6 | The chemistry of atomic transition-metal ions: insight into fundamental aspects of organometallic chemistry. Accounts of Chemical Research, 1989, 22, 315-321. | 7.6 | 314 |
| 7 | Guided ion beam study of collision-induced dissociation dynamics: integral and differential cross sections. Journal of Chemical Physics, 2001, 115, 1213-1228. | 1.2 | 303 |
| 8 | Activation of hydrogen and methane by thermalized FeO^+ in the gas phase as studied by multiple mass spectrometric techniques. International Journal of Mass Spectrometry and Ion Processes, 1997, 161, 175-191. | 1.9 | 291 |
| 9 | Collision-induced dissociation of $\text{Fe}+n$ ($n=2\text{--}10$) with Xe: Ionic and neutral iron binding energies. Journal of Chemical Physics, 1989, 90, 5466-5485. | 1.2 | 274 |
| 10 | Electronic State-Specific Transition Metal ION Chemistry. Annual Review of Physical Chemistry, 1990, 41, 313-344. | 4.8 | 273 |
| 11 | Sequential bond energies of chromium carbonyls $\text{Cr}(\text{CO})_{x+}$, $x = 1-6$). The Journal of Physical Chemistry, 1993, 97, 7978-7987. | 2.9 | 257 |
| 12 | Chemistry of Excited Electronic States. Science, 1991, 251, 175-179. | 6.0 | 252 |
| 13 | An Absolute Sodium Cation Affinity Scale: \AA^{-1} Threshold Collision-Induced Dissociation Experiments and ab Initio Theory. Journal of Physical Chemistry A, 2000, 104, 2238-2247. | 1.1 | 246 |
| 14 | Stepwise solvation enthalpies of protonated water clusters: collision-induced dissociation as an alternative to equilibrium studies. Journal of the American Chemical Society, 1993, 115, 12125-12131. | 6.6 | 244 |
| 15 | REACTIONS AND THERMOCHEMISTRY OF SMALL TRANSITION METAL CLUSTER IONS. Annual Review of Physical Chemistry, 2001, 52, 423-461. | 4.8 | 240 |
| 16 | Statistical modeling of competitive threshold collision-induced dissociation. Journal of Chemical Physics, 1998, 109, 1787-1800. | 1.2 | 236 |
| 17 | Reactions of N^+4 with rare gases from thermal to 10 eV center-of-mass energy: collision-induced dissociation, charge transfer and ligand exchange. International Journal of Mass Spectrometry and Ion Processes, 1991, 107, 29-48. | 1.9 | 227 |
| 18 | Absolute Binding Energies of Alkali-Metal Cation Complexes with Benzene Determined by Threshold Collision-Induced Dissociation Experiments and ab Initio Theory. Journal of Physical Chemistry A, 2000, 104, 11420-11432. | 1.1 | 225 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Noncovalent Interactions of Nucleic Acid Bases (Uracil, Thymine, and Adenine) with Alkali Metal Ions. Threshold Collision-Induced Dissociation and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2000, 122, 8548-8558. | 6.6 | 223 |
| 20 | Kinetic energy dependence of ion-molecule reactions: guided ion beams and threshold measurements. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 219-241. | 0.7 | 216 |
| 21 | Collision-induced dissociation of vanadium monoxide ion. <i>The Journal of Physical Chemistry</i> , 1986, 90, 5135-5140. | 2.9 | 213 |
| 22 | Collision-induced dissociation of Nb+n (n = 2 - 11): bond energies and dissociation pathways. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990, 102, 269-301. | 1.9 | 209 |
| 23 | Understanding heterolytic bond cleavage. <i>Journal of the American Chemical Society</i> , 1992, 114, 8627-8633. | 6.6 | 207 |
| 24 | Collision-Induced Dissociation Measurements on Li+(H2O) _n , n= 1-6: The First Direct Measurement of the Li+OH ₂ Bond Energy. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1238-1249. | 1.1 | 198 |
| 25 | Intrinsic Affinities of Alkali Cations for 15-Crown-5 and 18-Crown-6: Bond Dissociation Energies of Gas-Phase M+ Crown Ether Complexes. <i>Journal of the American Chemical Society</i> , 1999, 121, 417-423. | 6.6 | 191 |
| 26 | State-Specific Reactions of Fe+(a ₆ D, a ₄ F) with D ₂ O and Reactions of FeO+ with D ₂ . <i>The Journal of Physical Chemistry</i> , 1994, 98, 6522-6529. | 2.9 | 189 |
| 27 | Entropy measurements and the kinetic method: A statistically meaningful approach. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 371-379. | 1.2 | 176 |
| 28 | Reaction mechanisms and thermochemistry of vanadium ions with ethane, ethene and ethyne. <i>Journal of the American Chemical Society</i> , 1986, 108, 1806-1819. | 6.6 | 173 |
| 29 | Potential Energy Surface for Activation of Methane by Pt+: A Combined Guided Ion Beam and DFT Study. <i>Journal of the American Chemical Society</i> , 2001, 123, 5563-5575. | 6.6 | 163 |
| 30 | Reactions of fourth-period metal ions (Ca+ - Zn+) with O ₂ : Metal-oxide ion bond energies. <i>Journal of Chemical Physics</i> , 1990, 93, 2676-2691. | 1.2 | 162 |
| 31 | Mass spectrometry - Not just a structural tool: The use of guided ion beam tandem mass spectrometry to determine thermochemistry. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 419-434. | 1.2 | 161 |
| 32 | Sequential Bond Energies of Cu(CO) _x + and Ag(CO) _x + (x = 1-4). <i>Journal of the American Chemical Society</i> , 1995, 117, 4071-4081. | 6.6 | 160 |
| 33 | Collision-induced dissociation of Fe _n + (n=2-19) with Xe: Bond energies, geometric structures, and dissociation pathways. <i>Journal of Chemical Physics</i> , 1992, 97, 4072-4083. | 1.2 | 158 |
| 34 | Reactions of scandium oxide (ScO+), titanium oxide (TiO+) and vanadyl (VO+) with deuterium: M+OH bond energies and effects of spin conservation. <i>The Journal of Physical Chemistry</i> , 1993, 97, 544-552. | 2.9 | 154 |
| 35 | Kinetic energy dependence of Al++O ₂ + AlO++O. <i>Journal of Chemical Physics</i> , 1986, 84, 1521-1529. | 1.2 | 152 |
| 36 | Reaction of Cr+, Mn+, Fe+, Co+, and Ni+ with O ₂ and N ₂ O. Examination of the translational energy dependence of the cross sections of endothermic reactions. <i>Journal of Chemical Physics</i> , 1982, 76, 2449-2457. | 1.2 | 149 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Sequential Bond Energies of Water to Na+ (3s0), Mg+ (3s1), and Al+ (3s2). The Journal of Physical Chemistry, 1994, 98, 4191-4195. | 2.9 | 146 |
| 38 | Cation ⁺ Ether Complexes in the Gas Phase: Bond Dissociation Energies and Equilibrium Structures of Li+(1,2-dimethoxyethane) _x , x= 1 and 2, and Li+(12-crown-4). The Journal of Physical Chemistry, 1996, 100, 16116-16125. | 2.9 | 146 |
| 39 | Periodic trends in chemical reactivity. Reactions of scandium(+), yttrium(+), lanthanum(+), and lutetium(+) with methane and ethane. Journal of the American Chemical Society, 1989, 111, 3845-3855. | 6.6 | 145 |
| 40 | Conversion of CH ₄ to CH ₃ OH: Reactions of CoO ⁺ with CH ₄ and D ₂ , Co ⁺ with CH ₃ OD and D ₂ O, and Co ⁺ (CH ₃ OD) with Xe. Journal of the American Chemical Society, 1994, 116, 7815-7826. | 6.6 | 141 |
| 41 | Infrared Multiphoton Dissociation Spectroscopy of Cationized Serine: Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2008, 112, 2248-2257. | 1.1 | 139 |
| 42 | A Thermodynamic "Vocabulary" for Metal Ion Interactions in Biological Systems. Accounts of Chemical Research, 2004, 37, 989-998. | 7.6 | 137 |
| 43 | Experimental and Theoretical Dissection of Sodium Cation/Glycine Interactions. Journal of Physical Chemistry A, 2002, 106, 10350-10362. | 1.1 | 134 |
| 44 | Guided ion beam studies of transition metal ⁺ ligand thermochemistry. International Journal of Mass Spectrometry, 2003, 227, 289-302. | 0.7 | 134 |
| 45 | Gas-Phase Ion Dynamics and Chemistry. The Journal of Physical Chemistry, 1996, 100, 12866-12877. | 2.9 | 133 |
| 46 | Metal oxide and carbide thermochemistry of Y ⁺ , Zr ⁺ , Nb ⁺ , and Mo ⁺ . Journal of Chemical Physics, 1996, 105, 6322-6333. | 1.2 | 131 |
| 47 | Cation ⁺ Ether Complexes in the Gas Phase: Bond Dissociation Energies of Na+(dimethyl ether) _x , x = 1 ⁺ 4; Na+(1,2-dimethoxyethane) _x , x = 1 and 2; and Na+(12-crown-4). Journal of Physical Chemistry A, 1997, 101, 831-839. | 1.1 | 127 |
| 48 | Cationic Noncovalent Interactions: Energetics and Periodic Trends. Chemical Reviews, 2016, 116, 5642-5687. | 23.0 | 126 |
| 49 | Collision ⁺ induced dissociation of Co ⁺ +n(n=2 ⁺ 18) with Xe: Bond energies of cationic and neutral cobalt clusters, dissociation pathways, and structures. Journal of Chemical Physics, 1994, 100, 1049-1057. | 1.2 | 124 |
| 50 | Electronic effects in C-H and C-C bond activation. State-specific reactions of Fe ⁺ (6D,4F) with methane, ethane, and propane. Journal of the American Chemical Society, 1988, 110, 411-423. | 6.6 | 123 |
| 51 | Sequential Bond Dissociation Energies of M+(NH ₃) _x (x= 1 ⁺ 4) for M = Ti ⁺ Cu. Journal of the American Chemical Society, 1998, 120, 3176-3187. | 6.6 | 118 |
| 52 | Infrared Multiphoton Dissociation Spectroscopy of Cationized Threonine: Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2008, 112, 2258-2267. | 1.1 | 116 |
| 53 | Methane activation by titanium(1+): electronic and translational energy dependence. The Journal of Physical Chemistry, 1988, 92, 1209-1219. | 2.9 | 115 |
| 54 | State-specific reactions of iron(1+)(6D, 4F) with oxygen and oxirane: D.degree.0(iron(1+)-oxygen) and effects of collisional relaxation. The Journal of Physical Chemistry, 1989, 93, 3159-3167. | 2.9 | 113 |

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| 55 | Photodissociation measurements of bond dissociation energies: Ti+2, V+2, Co+2, and Co+3. Journal of Chemical Physics, 1994, 100, 4747-4755. | 1.2 | 113 |
| 56 | Kinetic-energy dependence of competitive spin-allowed and spin-forbidden reactions: V++CS2. Journal of Chemical Physics, 1999, 110, 7858-7870. | 1.2 | 112 |
| 57 | Effect of internal excitation on the collision-induced dissociation and reactivity of Co 2 +. Journal of Cluster Science, 1990, 1, 127-142. | 1.7 | 111 |
| 58 | Gas-phase thermochemistry of transition metal ligand systems: reassessment of values and periodic trends. , 1996, , 1-45. | | 111 |
| 59 | Statistical Rate Theory and Kinetic Energy-Resolved Ion Chemistry: Theory and Applications. Journal of Physical Chemistry A, 2008, 112, 10071-10085. | 1.1 | 110 |
| 60 | Collision-induced dissociation and charge transfer reactions of SF+x(x=1-5): Thermochemistry of sulfur fluoride ions and neutrals. Journal of Chemical Physics, 1992, 97, 4859-4870. | 1.2 | 109 |
| 61 | Absolute Binding Energies of Lithium Ions to Short Chain Alcohols, CnH2n+2O,n= 1-4, Determined by Threshold Collision-Induced Dissociation. Journal of Physical Chemistry A, 1997, 101, 2614-2625. | 1.1 | 108 |
| 62 | Transition-Metal Ethene Bonds: Thermochemistry of M+(C2H4)n(M = Ti-Cu,n= 1 and 2) Complexes. Journal of the American Chemical Society, 1998, 120, 1891-1899. | 6.6 | 108 |
| 63 | State-specific reactions of atomic transition-metal ions with molecular hydrogen, hydrogen deuteride, and molecular deuterium: effects of d orbitals on chemistry. The Journal of Physical Chemistry, 1987, 91, 2037-2045. | 2.9 | 104 |
| 64 | Reaction of Sc+, Ti+, and V+with CO. MC+and MO+bond energies. Journal of Chemical Physics, 1991, 95, 3387-3393. | 1.2 | 104 |
| 65 | Cation-Ether Complexes in the Gas Phase: Bond Dissociation Energies of M+(dimethyl ether)x,x= 1-3, M+(1,2-dimethoxyethane)x,x= 1 and 2, and M+(12-crown-4) Where M = Rb and Cs. Journal of Physical Chemistry A, 1997, 101, 7007-7017. | 1.1 | 104 |
| 66 | Methane activation by vanadium(1+): electronic and translational energy dependence. The Journal of Physical Chemistry, 1987, 91, 6178-6188. | 2.9 | 102 |
| 67 | Cation-ether complexes in the gas phase: thermodynamic insight into molecular recognition. International Journal of Mass Spectrometry, 1999, 193, 227-240. | 0.7 | 102 |
| 68 | Binding energies for the inner hydration shells of Ca2+: An experimental and theoretical investigation of Ca2+(H2O)x complexes (x=5-9). International Journal of Mass Spectrometry, 2007, 265, 308-325. | 0.7 | 101 |
| 69 | Is the kinetic method a thermodynamic method?. Journal of Mass Spectrometry, 1999, 34, 74-78. | 0.7 | 100 |
| 70 | Translational energy dependence of O+(4S) + H2(D2, HD) -> OH+(OD+) + H(D) from thermal energies to 30 eV c.m.. International Journal of Mass Spectrometry and Ion Processes, 1987, 80, 153-175. | 1.9 | 98 |
| 71 | Collision-induced dissociation of Ni+n (n=2-18) with Xe: Bond energies, geometrical structures, and dissociation pathways. Journal of Chemical Physics, 1992, 96, 7542-7554. | 1.2 | 98 |
| 72 | Cation-Ether Complexes in the Gas Phase: Bond Dissociation Energies of K+(dimethyl ether)x, x = 1-4; K+(1,2-dimethoxyethane)x, x = 1 and 2; and K+(12-crown-4). Journal of Physical Chemistry A, 1997, 101, 4254-4262. | 1.1 | 98 |

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|----|--|-----|-----------|
| 73 | An electrospray ionization source for thermochemical investigation with the guided ion beam mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1124-1134. | 1.2 | 96 |
| 74 | Metal cluster ions: the bond energy of diatomic manganese(1+). <i>The Journal of Physical Chemistry</i> , 1983, 87, 3593-3596. | 2.9 | 94 |
| 75 | Neutral and ionic metal-hydrogen and metal-carbon bond energies: reactions of cobalt, nickel, and copper with ethane, propane, methylpropane, and dimethylpropane. <i>Journal of the American Chemical Society</i> , 1989, 111, 4251-4262. | 6.6 | 93 |
| 76 | Energy dependence, kinetic isotope effects, and thermochemistry of the nearly thermoneutral reactions $N^+(3P)+H_2(HD,D_2) \rightarrow NH^+(ND^+)+H(D)$. <i>Journal of Chemical Physics</i> , 1987, 86, 2659-2673. | 1.2 | 92 |
| 77 | Effect of kinetic and electronic energy on the reactions of Mn^+ with H_2 , HD , and D_2 . <i>Journal of Chemical Physics</i> , 1986, 84, 4862-4871. | 1.2 | 91 |
| 78 | Reactions of cobalt(1+), nickel(1+), and copper(1+) with cyclopropane and ethylene oxide. Metal-methylidene ion bond energies. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1674-1683. | 2.9 | 91 |
| 79 | Collision-induced dissociation of $Ti+n$ ($n=2 \rightarrow 22$) with Xe: Bond energies, geometric structures, and dissociation pathways. <i>Journal of Chemical Physics</i> , 1992, 97, 4084-4093. | 1.2 | 90 |
| 80 | Thermochemistry of Ti^+ , hydrocarbon bonds: translational energy dependence of the reactions of Ti^+ with ethane, propane, and trans-2-butene. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 94, 149-177. | 1.9 | 89 |
| 81 | Collision-induced dissociation and charge-transfer reactions of SiF_x^+ ($x = 1-4$). Thermochemistry of SiF_x and SiF_x^+ . <i>The Journal of Physical Chemistry</i> , 1993, 97, 10204-10210. | 2.9 | 89 |
| 82 | Ligand Effects in Organometallic Thermochemistry: The Sequential Bond Energies of $Ni(CO)_x^+$ and $Ni(N_2)_x^+$ ($x = 1-4$) and $Ni(NO)_x^+$ ($x = 1-3$). <i>The Journal of Physical Chemistry</i> , 1995, 99, 7819-7828. | 2.9 | 89 |
| 83 | Structures of the Dehydrogenation Products of Methane Activation by 5d Transition Metal Cations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4115-4126. | 1.1 | 89 |
| 84 | Effect of kinetic and electronic energy on the reaction of vanadium(1+) (V^+) with molecular hydrogen, hydrogen deuteride, and molecular deuterium. <i>The Journal of Physical Chemistry</i> , 1985, 89, 5626-5636. | 2.9 | 88 |
| 85 | Activation of Methane by Gas-Phase Rh^+ . <i>The Journal of Physical Chemistry</i> , 1995, 99, 10775-10779. | 2.9 | 88 |
| 86 | Transition-metal hydride bond energies: first and second row. <i>Inorganic Chemistry</i> , 1986, 25, 1078-1080. | 1.9 | 87 |
| 87 | Potential energy surface for carbon dioxide activation by V^+ : A guided ion beam study. <i>Journal of Chemical Physics</i> , 1995, 102, 754-762. | 1.2 | 87 |
| 88 | Activation of methane by gold cations: Guided ion beam and theoretical studies. <i>Journal of Chemical Physics</i> , 2006, 125, 1331-14. | 1.2 | 87 |
| 89 | Reactions of Fe^+ , Co^+ , and Ni^+ with Silane. Electronic State Effects, Comparison to Reactions with Methane, and M^+-SiH_x ($x = 0-3$) Bond Energies. <i>Journal of the American Chemical Society</i> , 1995, 117, 764-773. | 6.6 | 86 |
| 90 | Ammonia activation by vanadium(1+): electronic and translational energy dependence. <i>The Journal of Physical Chemistry</i> , 1990, 94, 208-217. | 2.9 | 85 |

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|-----|--|-----|-----------|
| 91 | Reactions of Cu+(1S and 3D) with O ₂ , CO, CO ₂ , N ₂ , NO, N ₂ O, and NO ₂ studied by guided ion beam mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 1999, 182-183, 99-120. | 0.7 | 84 |
| 92 | Effect of kinetic and electronic energy on the reactions of iron(1+) with hydrogen, deuterium hydride, and deuterium: state-specific cross sections for Fe+(6D) and Fe+(4F). <i>The Journal of Physical Chemistry</i> , 1986, 90, 5736-5745. | 2.9 | 83 |
| 93 | Oxidation reactions at variably sized transition metal centers: Fe+n and Nb+n +O ₂ (n=1-3). <i>Journal of Chemical Physics</i> , 1989, 91, 6148-6163. | 1.2 | 83 |
| 94 | Methane Activation by 5d Transition Metals: Energetics, Mechanisms, and Periodic Trends. <i>Chemistry - A European Journal</i> , 2017, 23, 10-18. | 1.7 | 83 |
| 95 | Thermochemistry and Structures of CoC ₃ H ₆ ⁺ : Metallacycle and Metal-Alkene Isomers. <i>Organometallics</i> , 1994, 13, 3480-3490. | 1.1 | 82 |
| 96 | Guided Ion Beam Studies of the Reactions of Group 3 Metal Ions (Sc+, Y+, La+, and Lu+) with Silane. Electronic State Effects, Comparison to Reactions with Methane, and M+-SiH _x (x = 0-3) Bond Energies. <i>Journal of the American Chemical Society</i> , 1995, 117, 4057-4070. | 6.6 | 82 |
| 97 | Collision-Induced Dissociation and Theoretical Studies of Mg+ Complexes with CO, CO ₂ , NH ₃ , CH ₄ , CH ₃ OH, and C ₆ H ₆ . <i>Journal of Physical Chemistry A</i> , 2000, 104, 692-705. | 1.1 | 82 |
| 98 | The Special Five-Membered Ring of Proline: An Experimental and Theoretical Investigation of Alkali Metal Cation Interactions with Proline and Its Four- and Six-Membered Ring Analogues. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3933-3946. | 1.1 | 82 |
| 99 | Collision-induced dissociation of Vn+(n=2-20) with Xe: Bond energies, dissociation pathways, and structures. <i>Journal of Chemical Physics</i> , 1993, 99, 6613-6623. | 1.2 | 81 |
| 100 | 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. | 2.3 | 81 |
| 101 | Reaction of Zn+ with NO ₂ . The gas-phase thermochemistry of ZnO. <i>Journal of Chemical Physics</i> , 1991, 95, 7263-7268. | 1.2 | 80 |
| 102 | A critical evaluation of the experimental and theoretical determination of lithium cation affinities. <i>International Journal of Mass Spectrometry</i> , 2007, 267, 167-182. | 0.7 | 80 |
| 103 | Kinetic energy dependence of the reactions of Ru+, Rh+, Pd+, and Ag+ with O ₂ . <i>Journal of Chemical Physics</i> , 1995, 103, 618-625. | 1.2 | 79 |
| 104 | Reactions of Y+, Zr+, Nb+, and Mo+ with H ₂ , HD, and D ₂ . <i>The Journal of Physical Chemistry</i> , 1996, 100, 54-62. | 2.9 | 79 |
| 105 | Experimental and Theoretical Studies of Sodium Cation Interactions with the Acidic Amino Acids and Their Amide Derivatives. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3319-3327. | 1.1 | 79 |
| 106 | Dissociative charge transfer reactions of Ar+, Ne+, and He+ with CF ₄ from thermal to 50 eV. <i>Journal of Chemical Physics</i> , 1990, 92, 2296-2302. | 1.2 | 78 |
| 107 | The Potential Energy Surface for Activation of Methane by Co+: An Experimental Study. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9110-9117. | 2.9 | 78 |
| 108 | Absolute Thermodynamic Measurements of Alkali Metal Cation Interactions with a Simple Dipeptide and Tripeptide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3587-3596. | 1.1 | 78 |

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|-----|---|-----|-----------|
| 109 | Ammonia activation by scandium(1+) and titanium(1+): electronic and translational energy dependence. <i>The Journal of Physical Chemistry</i> , 1990, 94, 3008-3015. | 2.9 | 77 |
| 110 | Absolute Binding Energies of Sodium Ions to Short Chain Alcohols, $C_nH_{2n+2}O$, $n=1-4$, Determined by Threshold Collision-Induced Dissociation Experiments and Ab Initio Theory. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4955-4963. | 1.1 | 75 |
| 111 | Activation of O_2 , CO , and CO_2 by Pt^+ : The Thermochemistry of PtO^+ . <i>Journal of Physical Chemistry A</i> , 2003, 107, 8904-8914. | 1.1 | 75 |
| 112 | Experimental and Theoretical Studies of Vanadium Sulfide Cation. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10060-10073. | 1.1 | 74 |
| 113 | An experimental and theoretical dissection of potassium cation/glycine interactions. Electronic supplementary information (ESI) available: Fig. S1 shows a complete set of figures for collision-induced dissociation of six potassiated complexes with Xe. Table S1 lists vibrational frequencies and average vibrational energies at 298 K of the neutral molecules and potassiated complexes determined from vibrational analysis at the MP2(full)/6-31G(d) level. Table S2 lists rotational constants for the potassiated comp. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2588. | 1.3 | 73 |
| 114 | Infrared Multiple Photon Dissociation Spectroscopy of Cationized Asparagine: Effects of Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5519-5530. | 1.1 | 73 |
| 115 | $C^+(2P)+H_2(D_2,HD) \rightarrow CH^+(CD^+)+H(D)$. I. Reaction cross sections and kinetic isotope effects from threshold to 15 eV c.m.. <i>Journal of Chemical Physics</i> , 1986, 84, 6738-6749. | 1.2 | 72 |
| 116 | Endothermic reactions of uranium ions with N_2 , D_2 , and CD_4 . <i>Journal of Chemical Physics</i> , 1977, 66, 4683-4688. | 1.2 | 71 |
| 117 | Infrared multiple photon dissociation spectroscopy of cationized cysteine: Effects of metal cation size on gas-phase conformation. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 9-17. | 0.7 | 71 |
| 118 | Effect of kinetic and electronic energy on the reactions of cobalt, nickel, and copper ions with hydrogen, hydrogen deuteride, and deuterium. <i>The Journal of Physical Chemistry</i> , 1986, 90, 6576-6586. | 2.9 | 69 |
| 119 | A guided-ion beam study of the reactions of N^+ with H_2 , HD , and D_2 : An evaluation of pseudo-Arrhenius analyses of ion-molecule reaction systems. <i>Journal of Chemical Physics</i> , 1992, 96, 1046-1052. | 1.2 | 68 |
| 120 | Collision-Induced Dissociation Studies of $V(CO)_x^+$, $x = 1-7$: Sequential Bond Energies and the Heat of Formation of $V(CO)_6^+$. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8135-8141. | 2.9 | 68 |
| 121 | Hydration Energies of Zinc(II): Threshold Collision-Induced Dissociation Experiments and Theoretical Studies. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13727-13741. | 1.1 | 68 |
| 122 | Activation of Carbon Dioxide: Gas-Phase Reactions of Y^+ , YO^+ , and YO_2^+ with CO and CO_2 . <i>Inorganic Chemistry</i> , 1999, 38, 397-402. | 1.9 | 67 |
| 123 | Collision-induced dissociation of $Cr^+(n)$ ($n=2-21$) with Xe: Bond energies, dissociation pathways, and structures. <i>Journal of Chemical Physics</i> , 1993, 99, 6506-6516. | 1.2 | 66 |
| 124 | Bond energy-bond order relations in transition-metal bonds: vanadium. <i>Journal of the American Chemical Society</i> , 1984, 106, 4065-4066. | 6.6 | 65 |
| 125 | Translational and electronic energy dependence of chromium ion reactions with methane. <i>The Journal of Physical Chemistry</i> , 1988, 92, 7067-7074. | 2.9 | 65 |
| 126 | Periodic trends in the reactions of atomic ions with molecular hydrogen. <i>International Reviews in Physical Chemistry</i> , 1990, 9, 115-148. | 0.9 | 65 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
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