

Tomas Baer

List of Publications by Year in descending order

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157
papers

6,974
citations

76326

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95266

68
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157
all docs

157
docs citations

157
times ranked

2792
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Unimolecular Reaction Dynamics. , 1996, , . | | 1,002 |
| 2 | Suppression of hot electrons in threshold photoelectron photoion coincidence spectroscopy using velocity focusing optics. Review of Scientific Instruments, 2003, 74, 3763-3768. | 1.3 | 243 |
| 3 | Imaging photoelectron photoion coincidence spectroscopy with velocity focusing electron optics. Review of Scientific Instruments, 2009, 80, 034101. | 1.3 | 191 |
| 4 | Reactive Uptake of Ozone by Oleic Acid Aerosol Particles: Application of Single-Particle Mass Spectrometry to Heterogeneous Reaction Kinetics. Journal of Physical Chemistry A, 2002, 106, 8085-8095. | 2.5 | 182 |
| 5 | Modeling unimolecular reactions in photoelectron photoion coincidence experiments. Journal of Mass Spectrometry, 2010, 45, 1233-1245. | 1.6 | 160 |
| 6 | Data acquisition schemes for continuous two-particle time-of-flight coincidence experiments. Review of Scientific Instruments, 2007, 78, 084102. | 1.3 | 155 |
| 7 | Photoionization resonance studies with a steradiancy analyzer. II. The photoionization of CH ₃ I. Chemical Physics Letters, 1969, 4, 243-247. | 2.6 | 153 |
| 8 | Aerosol mass spectrometry: An introductory review. International Journal of Mass Spectrometry, 2006, 258, 2-12. | 1.5 | 136 |
| 9 | Gas-Phase Ion Dynamics and Chemistry. The Journal of Physical Chemistry, 1996, 100, 12866-12877. | 2.9 | 133 |
| 10 | 4076-4085. | 3.0 | 130 |
| 11 | Photoionization study of the ionization potentials and fragmentation paths of the chlorinated methanes and carbon tetrabromide. Journal of Chemical Physics, 1974, 60, 3650-3657. | 3.0 | 116 |
| 12 | Advances in threshold photoelectron spectroscopy (TPES) and threshold photoelectron photoion coincidence (TPEPICO). Physical Chemistry Chemical Physics, 2017, 19, 9698-9723. | 2.8 | 114 |
| 13 | Absolute unimolecular decay rates of energy selected C ₄ H ₆ +metastable ions. Journal of Chemical Physics, 1975, 62, 2900-2910. | 3.0 | 105 |
| 14 | Non-Franck-Condon transitions in resonant autoionization of N ₂ O. Journal of Chemical Physics, 1979, 70, 1585-1592. | 3.0 | 104 |
| 15 | Interactions between neutral dissociation and ionization continua in N ₂ O. Journal of Chemical Physics, 1983, 78, 3665-3672. | 3.0 | 102 |
| 16 | Dissociative Photoionization and Thermochemistry of Dihalomethane Compounds Studied by Threshold Photoelectron Photoion Coincidence Spectroscopy. Journal of Physical Chemistry A, 2005, 109, 1802-1809. | 2.5 | 94 |
| 17 | Kinetic energy release distributions for the dissociation of internal energy selected CH ₃ I ⁺ and CD ₃ I ⁺ ions. Journal of Chemical Physics, 1976, 65, 2407-2415. | 3.0 | 90 |
| 18 | Threshold photoelectron photoion coincidence studies of parallel and sequential dissociation reactions. Physical Chemistry Chemical Physics, 2005, 7, 1507-1513. | 2.8 | 90 |

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|----|--|-----|-----------|
| 19 | Ion spectroscopy: Where did it come from; where is it now; and where is it going?. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 681-693. | 2.8 | 89 |
| 20 | Heats of Formation of $C_6H_5^+$, $C_6H_5^+$, and C_6H_5NO by Threshold Photoelectron Photoion Coincidence and Active Thermochemical Tables Analysis. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13134-13145. | 2.5 | 87 |
| 21 | High-resolution pulsed field ionization photoelectron-photoion coincidence study of CH_4 : Accurate 0 K dissociation threshold for CH_3^+ . <i>Journal of Chemical Physics</i> , 1999, 111, 8267-8270. | 3.0 | 82 |
| 22 | Quantitative Detection of Aromatic Compounds in Single Aerosol Particle Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2317-2322. | 6.5 | 79 |
| 23 | Specific Rate Constants (k) (E) of the Dissociation of the Halobenzene Ions: Analysis by Statistical Unimolecular Rate Theories. <i>Journal of Physical Chemistry A</i> , 2009, 113, 573-582. | 2.5 | 78 |
| 24 | High-resolution pulsed field ionization photoelectron-photoion coincidence spectroscopy using synchrotron radiation. <i>Review of Scientific Instruments</i> , 1999, 70, 3892-3906. | 1.3 | 77 |
| 25 | Synchrotron Radiation Based Aerosol Time-of-Flight Mass Spectrometry for Organic Constituents. <i>Analytical Chemistry</i> , 2005, 77, 5953-5960. | 6.5 | 76 |
| 26 | On the ionization and dissociative photoionization of iodomethane: a definitive experimental enthalpy of formation of CH_3I . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11013. | 2.8 | 71 |
| 27 | Autoionization and isotope effect in the threshold photoelectron spectrum of $^{12}CO_2$ and $^{13}CO_2$. <i>Journal of Chemical Physics</i> , 1986, 85, 4765-4778. | 3.0 | 68 |
| 28 | Aerosol Uptake Described by Numerical Solution of the Diffusion-Reaction Equations in the Particle. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9582-9587. | 2.5 | 59 |
| 29 | The dissociation dynamics of state selected metastable aniline ions by single and multiphoton ionization. <i>Journal of Chemical Physics</i> , 1982, 76, 1304-1308. | 3.0 | 57 |
| 30 | Heats of Formation of the Acetyl Radical and Ion Obtained by Threshold Photoelectron Photoion Coincidence. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5288-5294. | 2.5 | 55 |
| 31 | Photoion Photoelectron Coincidence Spectroscopy of Primary Amines RCH_2NH_2 ($R = H, CH_3, C_2H_5$). <i>Journal of Physical Chemistry A</i> , 2006, 110, 13425-13433. | 2.5 | 55 |
| 32 | A photoion-photoelectron coincidence (PIPECO) study of fragmentation rates and kinetic energy release in energy selected metastable ions. <i>Journal of Chemical Physics</i> , 1975, 63, 4384-4392. | 3.0 | 51 |
| 33 | The photoionization and dissociation dynamics of energy-selected acetylene dimers, trimers, and tetramers. <i>Journal of Chemical Physics</i> , 1993, 98, 186-200. | 3.0 | 50 |
| 34 | Threshold photoelectron spectroscopy with velocity focusing: an ideal match for coincidence studies. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 381-389. | 1.5 | 50 |
| 35 | The dissociation dynamics of energy selected ion-dipole complexes. I. The cyclopropane ion-water complex $[C_3H_6^+OH_2]$. <i>Journal of Chemical Physics</i> , 1987, 87, 5242-5250. | 3.0 | 47 |
| 36 | Dissociation dynamics of halotoluene ions, production of tolyl, benzyl and tropylium ($[C_7H_7]^+$) ions. <i>Organic Mass Spectrometry</i> , 1989, 24, 1008-1016. | 1.3 | 46 |

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|----|---|------|-----------|
| 37 | Ion dissociation dynamics and thermochemistry by photoelectron photoion coincidence (PEPICO) spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2000, 200, 443-457. | 1.5 | 45 |
| 38 | Mass Spectrometry of Liquid Aniline Aerosol Particles by IR/UV Laser Irradiation. <i>Analytical Chemistry</i> , 1999, 71, 1802-1808. | 6.5 | 44 |
| 39 | Photoelectron Photoion Coincidence Studies of Ion Dissociation Dynamics. , 1991, , 259-296. | | 42 |
| 40 | The rates of HCl loss from energy-selected ethylchloride ions: A case of tunneling through an H-atom transfer barrier. <i>Journal of Chemical Physics</i> , 1991, 94, 3649-3656. | 3.0 | 42 |
| 41 | High-resolution pulsed field ionization photoelectron-photoion coincidence study of C ₂ H ₂ : Accurate 0 K dissociation threshold for C ₂ H ⁺ . <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5259-5262. | 2.8 | 42 |
| 42 | Dissociation Kinetics of Energy-Selected (C ₆ H ₆) ₂ Cr ⁺ Ions: A Benzene- ⁺ Chromium Neutral and Ionic Bond Energies. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9820-9826. | 2.5 | 42 |
| 43 | Total cross sections for symmetric charge transfer reactions of O ₂ in selected translational and internal energy states. <i>Journal of Chemical Physics</i> , 1978, 68, 4901-4906. | 3.0 | 41 |
| 44 | State selection by photoion-photoelectron coincidence. , 1979, , 153-196. | | 41 |
| 45 | Dissociation dynamics of energy-selected hexamethyldisilane ions and the heats of formation of trimethylsilyl(1+) ion ((CH ₃) ₃ Si ⁺) and trimethylsilyl radical ((CH ₃) ₃ Si). <i>Journal of the American Chemical Society</i> , 1984, 106, 273-278. | 13.7 | 40 |
| 46 | Cross sections for symmetric charge transfer reactions of NO ⁺ in selected vibrational and translational energy states. <i>Journal of Chemical Physics</i> , 1976, 65, 4001-4006. | 3.0 | 38 |
| 47 | Observation of Accurate Ion Dissociation Thresholds in Pulsed Field Ionization-Photoelectron Studies. <i>Physical Review Letters</i> , 2001, 86, 3526-3529. | 7.8 | 38 |
| 48 | Statistical energy partitioning in dissociation to several products. <i>Journal of Chemical Physics</i> , 1982, 76, 5917-5922. | 3.0 | 37 |
| 49 | Role of angular momentum in unimolecular kinetics: Kinetic energy release in fragmentation of C ₄ H ₆ ⁺ . <i>Journal of Chemical Physics</i> , 1977, 66, 5100-5104. | 3.0 | 36 |
| 50 | Identification of conformational isomers of methyl-substituted cyclohexanone and tetrahydropyran frozen in a molecular beam. <i>The Journal of Physical Chemistry</i> , 1990, 94, 2852-2857. | 2.9 | 36 |
| 51 | The Dissociation Kinetics of Energy-Selected CpMn(CO) ₃ ⁺ Ions Studied by Threshold Photoelectron-Photoion Coincidence Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 9388-9396. | 13.7 | 36 |
| 52 | Experimental and theoretical studies of isomeric CH ₃ S ₂ and CH ₃ S ⁺ . <i>Journal of Chemical Physics</i> , 1994, 100, 4870-4875. | 3.0 | 34 |
| 53 | Cross sections for symmetric charge transfer and proton transfer reactions of internal energy selected NH ₃ ⁺ (v). <i>Journal of Chemical Physics</i> , 1981, 75, 4477-4484. | 3.0 | 33 |
| 54 | Kinetic energy release distribution in the fragmentation of energy-selected vinyl and ethyl bromide ions. <i>Chemical Physics</i> , 1984, 85, 39-45. | 1.9 | 33 |

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| 55 | Pulsed field ionization-photoelectron photoion coincidence spectroscopy with synchrotron radiation: The heat of formation of the C ₂ H ₅ ⁺ ion. <i>Faraday Discussions</i> , 2000, 115, 137-145. | 3.2 | 33 |
| 56 | Dissociation Dynamics and Thermochemistry of Energy-Selected CpCo(CO) ₂ +Ions. <i>Journal of the American Chemical Society</i> , 2000, 122, 9219-9226. | 13.7 | 33 |
| 57 | Tunneling in H loss from energy selected ethanol ions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16047. | 2.8 | 33 |
| 58 | Isomerization and Dissociation in Competition. The Pentene Ion Story. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17862-17871. | 2.9 | 32 |
| 59 | A time-of-flight detection system for near threshold photoelectron spectroscopy. <i>Review of Scientific Instruments</i> , 1974, 45, 494-498. | 1.3 | 31 |
| 60 | On the determination of cluster properties by ionization techniques. <i>Journal of Chemical Physics</i> , 1992, 96, 5541-5543. | 3.0 | 31 |
| 61 | Non-Statistical Chemical Reactions: The Isomerization over Low Barriers in Methyl and Ethyl Cyclohexanones. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9397-9402. | 2.5 | 31 |
| 62 | Thermochemistry and Dissociative Photoionization of Si(CH ₃) ₄ , BrSi(CH ₃) ₃ , ISi(CH ₃) ₃ , and Si ₂ (CH ₃) ₆ Studied by Threshold Photoelectron Photoion Coincidence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8572-8579. | 2.5 | 31 |
| 63 | The production and characterization by resonance enhanced multiphoton ionization of H ₂ (v=10) from photodissociation of H ₂ S. <i>Journal of Chemical Physics</i> , 1989, 91, 6113-6119. | 3.0 | 30 |
| 64 | The Heat of Formation of 2-C ₃ H ₇ ⁺ and Proton Affinity of C ₃ H ₆ Determined by Pulsed Field Ionization Photoelectron Photoion Coincidence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1959-1964. | 2.5 | 30 |
| 65 | Aerosol particle mass spectrometry with low photon energy laser ionization. <i>International Journal of Mass Spectrometry</i> , 2005, 241, 89-97. | 1.5 | 30 |
| 66 | 2 + 1 REMPI spectra of cyclic ketones in a cold molecular beam. 1. Structural studies of the 3s Rydberg state in unsubstituted rings. <i>Journal of the American Chemical Society</i> , 1987, 109, 6915-6920. | 13.7 | 29 |
| 67 | A photo-ionization study of organosulfur ring compounds: Thiirane, thietane and tetrahydrothiophene. <i>Organic Mass Spectrometry</i> , 1983, 18, 248-253. | 1.3 | 28 |
| 68 | The Internal Energy of Neutral Ethylene Glycol Molecules Created in the Laser Vaporization of Aerosol Particles. <i>Journal of Physical Chemistry A</i> , 2003, 107, 2119-2125. | 2.5 | 28 |
| 69 | Consecutive and Parallel Dissociation of Energy-Selected Co(CO) ₃ NO ⁺ Ions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8046-8053. | 2.5 | 27 |
| 70 | A Photoelectron Photoion Coincidence Study of the Vinyl Bromide and Tribromoethane Ion Dissociation Dynamics: Heats of Formation of C ₂ H ₃ ⁺ , C ₂ H ₃ Br, C ₂ H ₃ Br ⁺ , C ₂ H ₃ Br ₂ ⁺ , and C ₂ H ₃ Br ₃ . <i>Journal of Physical Chemistry A</i> , 2006, 110, 3036-3041. | 2.5 | 27 |
| 71 | Transition state structures and angular momentum effects in the dissociation dynamics of energy-selected C ₄ H ⁺ ions. <i>Journal of Chemical Physics</i> , 1993, 99, 4441-4454. | 3.0 | 26 |
| 72 | The dissociation energies and mechanism of energy-selected bromo- and iodo-butanones. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988, 82, 299-318. | 1.8 | 24 |

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| 73 | The production and spectroscopy of excited sulfur atoms from the two-photon dissociation of H ₂ S. Journal of Chemical Physics, 1988, 89, 5507-5513. | 3.0 | 24 |
| 74 | Gas-phase measurement of $\hat{1}^n$ H ₀ between axial and equatorial conformations of 3-methylcyclopentanone. Chemical Physics, 2000, 256, 251-258. | 1.9 | 24 |
| 75 | Ethylene Glycol Ions Dissociate by Tunneling through an H-Atom Transfer Barrier: A DFT and TPEPICO Study. Journal of Physical Chemistry A, 2002, 106, 8658-8666. | 2.5 | 24 |
| 76 | Heats of Formation of the Propionyl Ion and Radical and 2,3-Pentanedione by Threshold Photoelectron Photoion Coincidence Spectroscopy. Journal of Physical Chemistry A, 2005, 109, 939-946. | 2.5 | 24 |
| 77 | Photoelectron spectrum of H ₂ S following multiphoton ionization. Journal of Chemical Physics, 1982, 76, 5648-5649. | 3.0 | 23 |
| 78 | Photodissociation of energy selected C ₄ H ₆ ions: The isomerization barrier between butyne and 1,3-butadiene ion isomers. Journal of Chemical Physics, 1986, 85, 6361-6367. | 3.0 | 23 |
| 79 | The 2 + 1 REMPI spectra of cyclic ketones in a cold molecular beam. 2. The n → π* Rydberg transition of methyl-substituted cyclohexanones and cyclopentanones. Journal of the American Chemical Society, 1988, 110, 3099-3106. | 13.7 | 23 |
| 80 | Dissociative photoionization of mono-, di- and trimethylamine studied by a combined threshold photoelectron photoion coincidence spectroscopy and computational approach. Physical Chemistry Chemical Physics, 2006, 8, 613-623. | 2.8 | 23 |
| 81 | Modeling ionic unimolecular dissociations from a temperature controlled TPEPICO study on 1-C ₄ H ₉ I ions. International Journal of Mass Spectrometry, 2007, 267, 159-166. | 1.5 | 23 |
| 82 | Binding Energies and Isomerization in Metallocene Ions from Threshold Photoelectron Photoion Coincidence Spectroscopy. Journal of the American Chemical Society, 2010, 132, 17795-17803. | 13.7 | 23 |
| 83 | Translational energies of fragment ions in the multiphoton ionization of benzene. Journal of Chemical Physics, 1982, 76, 5968-5973. | 3.0 | 22 |
| 84 | Neutral Cobalt Carbonyl Bond Energy by Combined Threshold Photoelectron Photoion Coincidence and He(I) Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 9486-9490. | 2.5 | 22 |
| 85 | Heats of Formation of Co(CO) ₂ NOPR ₃ , R = CH ₃ and C ₂ H ₅ , and Its Ionic Fragments. Journal of the American Chemical Society, 2005, 127, 9393-9402. | 13.7 | 22 |
| 86 | Experimental Thermochemistry of SiCl ₃ R (R = Cl, H, CH ₃ , C ₂ H ₅ , C ₂ H ₃ , CH ₂ Cl, SiCl ₃), SiCl ₃ ⁺ , and SiCl ₃ ⁺ . Journal of Physical Chemistry A, 2009, 113, 9458-9466. | 2.5 | 22 |
| 87 | Controlling tunnelling in methane loss from acetone ions by deuteration. Physical Chemistry Chemical Physics, 2015, 17, 28505-28509. | 2.8 | 22 |
| 88 | The mechanism for multiphoton ionization of H ₂ S. Journal of Chemical Physics, 1981, 75, 4422-4429. | 3.0 | 21 |
| 89 | Laser wavelength dependence of the REMPI mass spectrum of 2,4-hexadiyne: Direct evidence for dissociation through ionic states. Journal of Chemical Physics, 1981, 75, 477-478. | 3.0 | 21 |
| 90 | A Photoelectron Photoion Coincidence Study of the ICH ₂ CN Ion Dissociation: Thermochemistry of $\hat{1}^n$ CH ₂ CN, $\hat{1}^n$ CH ₂ CN, and ICH ₂ CN. Journal of Physical Chemistry A, 2000, 104, 1450-1455. | 2.5 | 21 |

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| 91 | Heats of Formation of HCCl_3 , HCCl_2Br , HCClBr_2 , HCCl_3 , and Their Fragment Ions Studied by Threshold Photoelectron Photoion Coincidence. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10533-10538. | 2.5 | 21 |
| 92 | Dissociation of energy selected $\text{Sn}(\text{CH}_3)_4^+$, $\text{Sn}(\text{CH}_3)_3\text{Cl}^+$, and $\text{Sn}(\text{CH}_3)_3\text{Br}^+$ ions: evidence for isolated excited state dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17791. | 2.8 | 21 |
| 93 | Collisional dissociation of CH_2Br_2 in selected internal energy states. <i>Chemical Physics</i> , 1974, 6, 325-330. | 1.9 | 20 |
| 94 | Observations of Ethyl-Substituted Cyclohexanone and Cyclopentanone Rotamers Using Resonance-Enhanced Multiphoton Ionization Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1995, 99, 4458-4465. | 2.9 | 20 |
| 95 | The 3s Rydberg Spectra and Conformations of Methyl-Substituted Cyclopentanones. <i>The Journal of Physical Chemistry</i> , 1995, 99, 12090-12098. | 2.9 | 20 |
| 96 | A photoionization study of vibrational cooling in molecular beams. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 156, 133-139. | 1.8 | 20 |
| 97 | Dynamics in the Early Stages of Decomposition in Liquid Nitromethane and Nitromethane-Diethylamine Mixtures. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8273-8280. | 2.5 | 20 |
| 98 | Dissociative Photoionization Study of Neopentane: A Path to an Accurate Heat of Formation of the <i>tert</i> -Butyl Ion, <i>tert</i> -Butyl Iodide, and <i>tert</i> -Butyl Hydroperoxide. <i>Journal of Physical Chemistry A</i> , 2010, 114, 804-810. | 2.5 | 20 |
| 99 | Tunneling in a Simple Bond Scission: The Surprising Barrier in the H Loss from HCOOH^+ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 10016-10023. | 2.5 | 20 |
| 100 | Understanding the Complex Dissociation Dynamics of Energy Selected Dichloroethylene Ions: Neutral Isomerization Energies and Heats of Formation by Imaging Photoelectron-Photoion Coincidence. <i>Journal of Physical Chemistry A</i> , 2011, 115, 726-734. | 2.5 | 20 |
| 101 | Isomerization and Dissociation in Competition: The Two-Component Dissociation Rates of Energy Selected Methyl Formate Ions. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1682-1690. | 2.5 | 19 |
| 102 | TPEPICO Spectroscopy of Vinyl Chloride and Vinyl Iodide: Neutral and Ionic Heats of Formation and Bond Energies. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5647-5652. | 2.5 | 19 |
| 103 | Dissociative Photoionization of $\text{X}(\text{CH}_3)_3$ ($\text{X} = \text{N}, \text{P}, \text{As}, \text{Sb}, \text{Bi}$): Mechanism, Trends, and Accurate Energetics. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8091-8098. | 2.5 | 19 |
| 104 | Resonance photoelectron spectroscopy from autoionization states of CH_3I . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1973, 2, 25-32. | 1.7 | 18 |
| 105 | H loss from CH_3Cl^+ . Evidence for a new electronic state in CH_3Cl^+ . <i>Journal of Chemical Physics</i> , 1974, 61, 5468-5469. | 3.0 | 18 |
| 106 | Two-component unimolecular decay rates of energy selected metastable ions. <i>Journal of Chemical Physics</i> , 1975, 62, 2497-2499. | 3.0 | 18 |
| 107 | Symmetric electron transfer reactions of state-selected ions: $\text{H}_2^+ + \text{H}_2 \rightarrow \text{H}_2 + \text{H}_2^+(\dot{1}/2 = 0 \approx 10)$. <i>Chemical Physics Letters</i> , 1984, 109, 285-290. | 2.6 | 18 |
| 108 | An experimental link between the carbon-13 NMR chemical shift of carbonyl carbons and the energy shifts observed in the $n \rightarrow \pi^*$ optical transition of cyclic ketones. <i>Journal of the American Chemical Society</i> , 1988, 110, 6287-6291. | 13.7 | 18 |

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| 109 | The analysis of conformations and configurations of substituted cyclic ketones by multiphoton ionization. <i>Journal of Molecular Structure</i> , 1991, 249, 95-107. | 3.6 | 18 |
| 110 | Threshold photoelectron photoion coincidence study of the ethane loss from energy selected pentane ions cooled in a supersonic expansion. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 107, 301-317. | 1.8 | 18 |
| 111 | Spectroscopic gas phase determination of $\hat{\nu}^{\text{H}}\text{H}\hat{\text{A}}^{\circ}$ [axial/equatorial] for 3-methyl cyclohexanone. <i>Journal of Chemical Physics</i> , 1996, 105, 7605-7612. | 3.0 | 18 |
| 112 | Proton Tunneling in the Loss of Hydrogen Bromide from Energy-Selected Gas-Phase 2-Bromobutane Cations. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1090-1097. | 2.5 | 18 |
| 113 | Dissociation Dynamics of Energy Selected, Propane, and $\text{C}_3\text{H}_7\text{X}^+$ Ions by iPEPICO: Accurate Heats of Formation of C_3H_7^+ , $\text{C}_3\text{H}_7\text{Cl}^+$, $\text{C}_3\text{H}_7\text{Br}^+$, and $\text{C}_3\text{H}_7\text{I}^+$. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11285-11291. | 2.5 | 18 |
| 114 | Heats of Formation of t-Butyl Peroxy Radical and t-Butyl Diazyl Ion: RRKM vs SSACM Rate Theories in Systems with Kinetic and Competitive Shifts. <i>Journal of Physical Chemistry A</i> , 2010, 114, 232-240. | 2.5 | 18 |
| 115 | Kinetic energy release distributions for the dissociation of internal energy selected C_2H_5^+ ions. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1980, 77, 739-743. | 0.2 | 18 |
| 116 | IR Vaporization Mass Spectrometry of Aerosol Particles with Ionic Solutions: The Problem of Ion-Ion Recombination. <i>Journal of Physical Chemistry A</i> , 2003, 107, 11245-11252. | 2.5 | 17 |
| 117 | Dissociation dynamics and thermochemistry of chloroform and tetrachloroethane molecules studied by threshold photoelectron photoion coincidence. <i>International Journal of Mass Spectrometry</i> , 2006, 252, 20-25. | 1.5 | 17 |
| 118 | Photodissociation of the energy selected nitrobenzene ion. <i>Journal of Chemical Physics</i> , 1986, 84, 1424-1431. | 3.0 | 16 |
| 119 | Manganese-Chalco-carbonyl Bond Strengths from Threshold Photoelectron Photoion Coincidence Spectroscopy. <i>Organometallics</i> , 2006, 25, 6061-6067. | 2.3 | 16 |
| 120 | Analysis of autoionizing Rydberg states in HI and CH ₃ I. Comments on Rydberg electron wavefunctions. <i>Journal of Chemical Physics</i> , 1974, 61, 2047-2049. | 3.0 | 15 |
| 121 | Dissociation Dynamics of Sequential Ionic Reactions: Heats of Formation of Tri-, Di-, and Monoethylphosphine. <i>Journal of Physical Chemistry A</i> , 2007, 111, 16-26. | 2.5 | 15 |
| 122 | One- and Two-Dimensional Translational Energy Distributions in the Iodine-Loss Dissociation of 1,2- $\text{C}_2\text{H}_4\text{I}_2^+$ and 1,3- $\text{C}_3\text{H}_6\text{I}_2^+$: What Does This Mean?. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2833-2844. | 2.5 | 15 |
| 123 | On the Parallel Mechanism of the Dissociation of Energy-Selected $\text{P}(\text{CH}_3)_3^+$. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8393-8399. | 2.6 | 14 |
| 124 | Spectroscopic determination of $\hat{\nu}^{\text{H}}\text{H}\hat{\text{A}}^{\circ}$ for axial/equatorial and ethyl rotor conformations in 4-methyl and 4-ethyl cyclohexanone cooled in a supersonic jet. <i>Journal of Chemical Physics</i> , 1998, 108, 869-875. | 3.0 | 13 |
| 125 | Heat of Formation of the Allyl Ion by TPEPICO Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10710-10716. | 2.5 | 13 |
| 126 | The dissociation dynamics and thermochemistry of the acrolein ion studied by threshold photoelectron photoion coincidence spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2002, 218, 37-48. | 1.5 | 12 |

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| 127 | 2-Methyl effects in the Rydberg spectra of methyl-substituted cyclohexanones. <i>Analytical Chemistry</i> , 1992, 64, 2604-2609. | 6.5 | 11 |
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