

Thomas R Rizzo

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138
papers

6,052
citations

46
h-index

72
g-index

146
ext. papers

6,414
ext. citations

6.6
avg, IF

5.8
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 138 | Spectroscopic studies of cold, gas-phase biomolecular ions. <i>International Reviews in Physical Chemistry</i> , 2009 , 28, 481-515 | 7 | 289 |
| 137 | Electronic spectroscopy of cold, protonated tryptophan and tyrosine. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2816-7 | 16.4 | 239 |
| 136 | Vibrational mode-specific reaction of methane on a nickel surface. <i>Science</i> , 2003 , 302, 98-100 | 33.3 | 217 |
| 135 | The electronic spectrum of the amino acid tryptophan in the gas phase. <i>Journal of Chemical Physics</i> , 1986 , 84, 2534-2541 | 3.9 | 211 |
| 134 | Infrared spectroscopy of hydrated amino acids in the gas phase: protonated and lithiated valine. <i>Journal of the American Chemical Society</i> , 2006 , 128, 905-16 | 16.4 | 193 |
| 133 | Conformation-specific spectroscopy and photodissociation of cold, protonated tyrosine and phenylalanine. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11814-20 | 16.4 | 178 |
| 132 | A new six-dimensional analytical potential up to chemically significant energies for the electronic ground state of hydrogen peroxide. <i>Journal of Chemical Physics</i> , 1999 , 111, 2565-2587 | 3.9 | 165 |
| 131 | State-Resolved Gas-Surface Reactivity of Methane in the Symmetric C-H Stretch Vibration on Ni(100). <i>Physical Review Letters</i> , 2005 , 94, | 7.4 | 143 |
| 130 | Interplay of intra- and intermolecular H-bonding in a progressively solvated macrocyclic peptide. <i>Science</i> , 2012 , 336, 320-3 | 33.3 | 138 |
| 129 | Microsolvation effects on the excited-state dynamics of protonated tryptophan. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16938-43 | 16.4 | 130 |
| 128 | Spectroscopic signatures of gas-phase helices: Ac-Phe-(Ala) ₅ -Lys-H ⁺ and Ac-Phe-(Ala) ₁₀ -Lys-H ⁺ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 13820-1 | 16.4 | 113 |
| 127 | Spectroscopy and conformational preferences of gas-phase helices. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 125-32 | 3.6 | 111 |
| 126 | Dispersed fluorescence of jet-cooled tryptophan: Excited state conformers and intramolecular exciplex formation. <i>Journal of Chemical Physics</i> , 1986 , 85, 6945-6951 | 3.9 | 102 |
| 125 | Surface reactivity of highly vibrationally excited molecules prepared by pulsed laser excitation: CH ₄ (2B) on Ni(100). <i>Journal of Chemical Physics</i> , 2002 , 117, 8603-8606 | 3.9 | 100 |
| 124 | Electronic spectrum of the amino acid tryptophan cooled in a supersonic molecular beam. <i>Journal of Chemical Physics</i> , 1985 , 83, 4819-4820 | 3.9 | 100 |
| 123 | Electronic spectroscopy of tryptophan analogs in supersonic jets: 3-Indole acetic acid, 3-indole propionic acid, tryptamine, and N-acetyl tryptophan ethyl ester. <i>Journal of Chemical Physics</i> , 1986 , 84, 6539-6549 | 3.9 | 86 |
| 122 | Unimolecular reactions near threshold: The overtone vibration initiated decomposition of HOOH (5D _H). <i>Journal of Chemical Physics</i> , 1986 , 84, 1508-1520 | 3.9 | 82 |

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| 121 | UV and IR spectroscopic studies of cold alkali metal ion-crown ether complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12256-63 | 16.4 | 80 |
| 120 | A direct measurement of the dissociation energy of water. <i>Journal of Chemical Physics</i> , 2006 , 125, 181103 | 3.9 | 80 |
| 119 | Conformation-specific infrared and ultraviolet spectroscopy of tyrosine-based protonated dipeptides. <i>Journal of Chemical Physics</i> , 2007 , 127, 154322 | 3.9 | 78 |
| 118 | Intramolecular energy transfer in highly vibrationally excited methanol. I. Ultrafast dynamics. <i>Journal of Chemical Physics</i> , 1997 , 107, 8409-8422 | 3.9 | 75 |
| 117 | Highly resolved spectra of gas-phase gramicidin s: a benchmark for peptide structure calculations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4040-1 | 16.4 | 72 |
| 116 | State-resolved product detection in the overtone vibration initiated unimolecular decomposition of HOOH(6 ν H). <i>Journal of Chemical Physics</i> , 1984 , 81, 4501-4509 | 3.9 | 72 |
| 115 | Intramolecular energy transfer in highly vibrationally excited methanol. II. Multiple time scales of energy redistribution. <i>Journal of Chemical Physics</i> , 1999 , 110, 11346-11358 | 3.9 | 69 |
| 114 | Product energy partitioning in the decomposition of state-selectively excited HOOH and HOOD. <i>Faraday Discussions of the Chemical Society</i> , 1983 , 75, 223 | | 66 |
| 113 | A new tandem mass spectrometer for photofragment spectroscopy of cold, gas-phase molecular ions. <i>Review of Scientific Instruments</i> , 2010 , 81, 073107 | 1.7 | 63 |
| 112 | Infrared Spectroscopy of Mobility-Selected H ⁺ -Gly-Pro-Gly-Gly (GPGG). <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1444-54 | 3.5 | 61 |
| 111 | Ion selectivity of crown ethers investigated by UV and IR spectroscopy in a cold ion trap. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4057-68 | 2.8 | 59 |
| 110 | Cryogenic Vibrational Spectroscopy Provides Unique Fingerprints for Glycan Identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2217-2222 | 3.5 | 58 |
| 109 | Cold-ion spectroscopy reveals the intrinsic structure of a decapeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5383-6 | 16.4 | 58 |
| 108 | Infrared spectroscopy of vibrationally excited HONO ₂ : Shedding light on the dark states of intramolecular vibrational energy redistribution. <i>Journal of Chemical Physics</i> , 1991 , 94, 2425-2437 | 3.9 | 58 |
| 107 | Structure and bonding of isoelectronic coinage metal (Cu, Ag, Au) dimethylaminonitrenes in the gas phase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13789-98 | 16.4 | 56 |
| 106 | Vibrational overtone spectroscopy of the 4 ν H+ ν H ₂ combination level of HOOH via sequential local mode excitation. <i>Journal of Chemical Physics</i> , 1992 , 96, 5659-5667 | 3.9 | 56 |
| 105 | Direct measurement of eigenstate-resolved unimolecular dissociation rates of HOCl. <i>Journal of Chemical Physics</i> , 1997 , 107, 10344-10347 | 3.9 | 55 |
| 104 | Accurate bond dissociation energy of water determined by triple-resonance vibrational spectroscopy and ab initio calculations. <i>Chemical Physics Letters</i> , 2013 , 568-569, 14-20 | 2.5 | 54 |

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| 103 | Conformational distribution of bradykinin [bk + 2 H] ²⁺ revealed by cold ion spectroscopy coupled with FAIMS. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1173-81 | 3.5 | 54 |
| 102 | Exploring the mechanism of IR-UV double-resonance for quantitative spectroscopy of protonated polypeptides and proteins. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6002-5 | 16.4 | 53 |
| 101 | Combining Ultrahigh-Resolution Ion-Mobility Spectrometry with Cryogenic Infrared Spectroscopy for the Analysis of Glycan Mixtures. <i>Analytical Chemistry</i> , 2019 , 91, 4876-4882 | 7.8 | 52 |
| 100 | State-to-state unimolecular reaction of t-butylhydroperoxide. <i>Journal of Chemical Physics</i> , 1982 , 76, 2754-2756 | 3.7 | 52 |
| 99 | State-selective spectroscopy of water up to its first dissociation limit. <i>Journal of Chemical Physics</i> , 2009 , 131, 221105 | 3.9 | 51 |
| 98 | Double-resonance overtone photofragment spectroscopy of trans-HONO. I. Spectroscopy and intramolecular dynamics. <i>Journal of Chemical Physics</i> , 2000 , 112, 8885-8898 | 3.9 | 50 |
| 97 | CO ₂ laser assisted vibrational overtone spectroscopy. <i>Journal of Chemical Physics</i> , 1992 , 97, 2823-2825 | 3.9 | 50 |
| 96 | Ab initio calculations of mode selective tunneling dynamics in 12CH ₃ OH and 13CH ₃ OH. <i>Journal of Chemical Physics</i> , 2003 , 119, 5534-5544 | 3.9 | 48 |
| 95 | Rotationally resolved vibrational overtone spectroscopy of hydrogen peroxide at chemically significant energies. <i>Journal of Chemical Physics</i> , 1990 , 93, 8620-8633 | 3.9 | 48 |
| 94 | The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7554-7560 | 16.4 | 47 |
| 93 | A molecular beam of tryptophan. <i>Journal of the American Chemical Society</i> , 1985 , 107, 277-278 | 16.4 | 46 |
| 92 | Multiple timescales in the intramolecular vibrational energy redistribution of highly excited methanol. <i>Faraday Discussions</i> , 1995 , 102, 167 | 3.6 | 45 |
| 91 | Unimolecular dissociation of hydrogen peroxide from single rovibrational states near threshold. <i>Journal of Chemical Physics</i> , 1991 , 94, 889-898 | 3.9 | 45 |
| 90 | Glycosaminoglycan Analysis by Cryogenic Messenger-Tagging IR Spectroscopy Combined with IMS-MS. <i>Analytical Chemistry</i> , 2017 , 89, 7601-7606 | 7.8 | 44 |
| 89 | Conformations of Prolyl-Peptide Bonds in the Bradykinin 1-5 Fragment in Solution and in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9224-33 | 16.4 | 44 |
| 88 | Spectroscopic studies of kinetically trapped conformations in the gas phase: the case of triply protonated bradykinin. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25828-36 | 3.6 | 42 |
| 87 | Intramolecular energy transfer in highly vibrationally excited methanol. III. Rotational and torsional analysis. <i>Journal of Chemical Physics</i> , 1999 , 110, 11359-11367 | 3.9 | 41 |
| 86 | Rotational state selected vibrational overtone spectroscopy of jet-cooled molecules. <i>Journal of Chemical Physics</i> , 1995 , 103, 1985-1988 | 3.9 | 41 |

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| 85 | State-to-state unimolecular reaction dynamics of HOCl near the dissociation threshold: The role of vibrations, rotations, and IVR probed by time- and eigenstate-resolved spectroscopy. <i>Journal of Chemical Physics</i> , 1999 , 111, 7359-7368 | 3.9 | 40 |
| 84 | Spectroscopy of protonated peptides assisted by infrared multiple photon excitation. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 797-9 | 2.8 | 39 |
| 83 | Spectroscopy of mobility-selected biomolecular ions. <i>Faraday Discussions</i> , 2011 , 150, 243-55; discussion 257-92 | 3.6 | 38 |
| 82 | Molecular-beam/surface-science apparatus for state-resolved chemisorption studies using pulsed-laser preparation. <i>Review of Scientific Instruments</i> , 2003 , 74, 4110-4120 | 1.7 | 38 |
| 81 | Secondary time scales of intramolecular vibrational energy redistribution in CF ₃ H studied by vibrational overtone spectroscopy. <i>Journal of Chemical Physics</i> , 1996 , 105, 6285-6292 | 3.9 | 38 |
| 80 | Microhydration effects on the encapsulation of potassium ion by dibenzo-18-crown-6. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1815-24 | 16.4 | 37 |
| 79 | Approaching the full set of energy levels of water. <i>Journal of Chemical Physics</i> , 2007 , 126, 241101 | 3.9 | 36 |
| 78 | Dipole moments of highly vibrationally excited water. <i>Science</i> , 2002 , 297, 993-5 | 33.3 | 36 |
| 77 | Separation and Identification of Glycan Anomers Using Ultrahigh-Resolution Ion-Mobility Spectrometry and Cryogenic Ion Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2204-2211 | 3.5 | 35 |
| 76 | Cryogenic methods for the spectroscopy of large, biomolecular ions. <i>Topics in Current Chemistry</i> , 2015 , 364, 43-97 | | 34 |
| 75 | Vibrational overtone spectroscopy of jet-cooled methanol from 5000 to 14 000 cm ⁻¹ . <i>Journal of Chemical Physics</i> , 2005 , 122, 44314 | 3.9 | 33 |
| 74 | A new technique for state-to-state studies of unimolecular reactions. <i>Journal of Chemical Physics</i> , 1988 , 89, 4448-4450 | 3.9 | 32 |
| 73 | Fragmentation mechanism of UV-excited peptides in the gas phase. <i>Journal of Chemical Physics</i> , 2014 , 141, 154309 | 3.9 | 31 |
| 72 | Conformation-specific spectroscopy of peptide fragment ions in a low-temperature ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1029-45 | 3.5 | 30 |
| 71 | The spectroscopy and intramolecular vibrational energy redistribution dynamics of HOCl in the ν _{OH} =6 region, probed by infrared-visible double resonance overtone excitation. <i>Journal of Chemical Physics</i> , 1999 , 111, 123-133 | 3.9 | 30 |
| 70 | Broad vibrational overtone linewidths in the ν _{OH} band of rotationally selected NH ₂ OH. <i>Journal of Chemical Physics</i> , 1990 , 93, 9194-9196 | 3.9 | 29 |
| 69 | Torsion-rotation analysis of OH stretch overtone-torsion combination bands in methanol. <i>Journal of Chemical Physics</i> , 2002 , 116, 91 | 3.9 | 28 |
| 68 | State-to-state studies of intramolecular energy transfer in highly excited HOOH(D): Dependencies on vibrational and rotational excitation. <i>Journal of Chemical Physics</i> , 2000 , 112, 7461-7474 | 3.9 | 28 |

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| 67 | State-to-state unimolecular reaction dynamics of highly vibrationally excited molecules. <i>Chemical Society Reviews</i> , 2001 , 30, 214-225 | 58.5 | 28 |
| 66 | Molecular hydrogen messengers can lead to structural infidelity: A cautionary tale of protonated glycine. <i>Journal of Chemical Physics</i> , 2015 , 143, 104313 | 3.9 | 27 |
| 65 | Collisionally assisted spectroscopy of water from 27,000 to 34,000 cm ⁻¹ . <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10539-45 | 2.8 | 27 |
| 64 | Double-resonance overtone photofragment spectroscopy of trans-HONO. II. State- and time-resolved dissociation and OH-product state distributions. <i>Journal of Chemical Physics</i> , 2002 , 116, 10267-10276 | 3.9 | 26 |
| 63 | Laser spectroscopic study of cold host-guest complexes of crown ethers in the gas phase. <i>ChemPhysChem</i> , 2013 , 14, 649-60 | 3.2 | 25 |
| 62 | Conformational structures of a decapeptide validated by first principles calculations and cold ion spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 1374-8 | 3.2 | 25 |
| 61 | Combining Ion Mobility and Cryogenic Spectroscopy for Structural and Analytical Studies of Biomolecular Ions. <i>Accounts of Chemical Research</i> , 2018 , 51, 1487-1495 | 24.3 | 24 |
| 60 | Assessment of amide I spectroscopic maps for a gas-phase peptide using IR-UV double-resonance spectroscopy and density functional theory calculations. <i>Journal of Chemical Physics</i> , 2014 , 140, 224111 | 3.9 | 24 |
| 59 | Communication: Feshbach resonances in the water molecule revealed by state-selective spectroscopy. <i>Journal of Chemical Physics</i> , 2010 , 133, 081103 | 3.9 | 24 |
| 58 | Combining ultra-high resolution ion mobility spectrometry with cryogenic IR spectroscopy for the study of biomolecular ions. <i>Faraday Discussions</i> , 2019 , 217, 114-125 | 3.6 | 23 |
| 57 | Cryogenic IR spectroscopy combined with ion mobility spectrometry for the analysis of human milk oligosaccharides. <i>Analyst, The</i> , 2018 , 143, 1846-1852 | 5 | 23 |
| 56 | Collisionally enhanced isotopic selectivity in multiphoton dissociation of vibrationally excited CF ₃ H. <i>Journal of Chemical Physics</i> , 2003 , 118, 93-103 | 3.9 | 23 |
| 55 | Multiple isomers and protonation sites of the phenylalanine/serine dimer. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11053-5 | 16.4 | 22 |
| 54 | Using SLIM-Based IMS-IMS Together with Cryogenic Infrared Spectroscopy for Glycan Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 9079-9085 | 7.8 | 21 |
| 53 | Solvent Effects on the Encapsulation of Divalent Ions by Benzo-18-Crown-6 and Benzo-15-Crown-5. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 8097-105 | 2.8 | 19 |
| 52 | Intramolecular energy transfer in highly vibrationally excited methanol. IV. Spectroscopy and dynamics of ¹³ CH ₃ OH. <i>Journal of Chemical Physics</i> , 2000 , 113, 10068-10072 | 3.9 | 19 |
| 51 | Local modes of HOOH probed by optical-infrared double resonance. <i>Journal of Chemical Physics</i> , 1991 , 95, 865-871 | 3.9 | 18 |
| 50 | Efficient stimulated Raman pumping for quantum state resolved surface reactivity measurements. <i>Review of Scientific Instruments</i> , 2006 , 77, 054103 | 1.7 | 17 |

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| 49 | Eigenstate-resolved unimolecular dissociation dynamics of HOCl at OH= 7 and 8. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 2245-2252 | 3.6 | 17 |
| 48 | How General Is Anomeric Retention during Collision-Induced Dissociation of Glycans?. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5948-5951 | 16.4 | 16 |
| 47 | Product energy partitioning in the unimolecular decomposition of vibrationally and rotationally state-selected hydrogen peroxide. <i>Journal of Chemical Physics</i> , 1992 , 96, 5129-5136 | 3.9 | 15 |
| 46 | State-resolved spectroscopy of high vibrational levels of water up to the dissociative continuum. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 2710-273 | 3 | 14 |
| 45 | Effects of N-Terminus Substitution on the Structure and Spectroscopy of Gas-Phase Helices. <i>Chimia</i> , 2008 , 62, 240-243 | 1.3 | 14 |
| 44 | Cryogenic Ion Spectroscopy for Identification of Monosaccharide Anomers. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 2815-2819 | 2.8 | 13 |
| 43 | Assessing the performance of computational methods for the prediction of the ground state structure of a cyclic decapeptide. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 808-814 | 2.1 | 12 |
| 42 | UV and IR spectroscopy of cold 1,2-dimethoxybenzene complexes with alkali metal ions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4457-62 | 3.6 | 12 |
| 41 | Conformational preferences of gas-phase helices: experiment and theory struggle to agree: the seven-residue peptide Ac-Phe-(Ala) ₅ -Lys-H ⁺ . <i>Chemistry - A European Journal</i> , 2012 , 18, 12941-4 | 4.8 | 12 |
| 40 | Planar multipole ion trap/time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2011 , 83, 7895-901 | 7.8 | 12 |
| 39 | Infrared spectrum of t-butyl hydroperoxide excited to the 4 th OH vibrational overtone level. <i>Journal of Chemical Physics</i> , 1991 , 95, 1461-1465 | 3.9 | 12 |
| 38 | Franck-Condon-like Progressions in Infrared Spectra of Biological Molecules. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 10494-501 | 2.8 | 11 |
| 37 | Stark coefficients for highly excited rovibrational states of H ₂ O. <i>Journal of Chemical Physics</i> , 2012 , 136, 244308 | 3.9 | 11 |
| 36 | Dipole moments of HDO in highly excited vibrational states measured by Stark induced photofragment quantum beat spectroscopy. <i>Journal of Chemical Physics</i> , 2005 , 122, 124312 | 3.9 | 11 |
| 35 | Combining Cryogenic Infrared Spectroscopy with Selective Enzymatic Cleavage for Determining Glycan Primary Structure. <i>Analytical Chemistry</i> , 2020 , 92, 1658-1662 | 7.8 | 11 |
| 34 | IR-induced conformational isomerization of a helical peptide in a cold ion trap. <i>Journal of Chemical Physics</i> , 2016 , 144, 014304 | 3.9 | 11 |
| 33 | Capping Motif for Peptide Helix Formation. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1504-8 | 6.4 | 10 |
| 32 | Nonlinear intensity dependence in the infrared multiphoton excitation and dissociation of methanol pre-excited to different energies. <i>Journal of Chemical Physics</i> , 2002 , 117, 9793-9805 | 3.9 | 10 |

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| 31 | Analyzing glycans cleaved from a biotherapeutic protein using ultrahigh-resolution ion mobility spectrometry together with cryogenic ion spectroscopy. <i>Analyst, The</i> , 2020 , 145, 6493-6499 | 5 | 10 |
| 30 | UV and IR Spectroscopy of Cold H ₂ O(+)-Benzo-Crown Ether Complexes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11113-8 | 2.8 | 9 |
| 29 | Kalte Ionenspektroskopie zur Lösung der Gasphasenstruktur eines Decapeptids. <i>Angewandte Chemie</i> , 2011 , 123, 5495-5498 | 3.6 | 9 |
| 28 | Conformational dependence of intramolecular vibrational redistribution in methanol. <i>Journal of Chemical Physics</i> , 2007 , 126, 044311 | 3.9 | 9 |
| 27 | UV and IR Spectroscopy of Transition Metal-Crown Ether Complexes in the Gas Phase: Mn(benzo-15-crown-5)(HO). <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6781-6786 | 2.8 | 8 |
| 26 | Structural melting of an amino acid dimer upon intersystem crossing. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14974-80 | 16.4 | 8 |
| 25 | Exploring the Mechanism of IR/UV Double-Resonance for Quantitative Spectroscopy of Protonated Polypeptides and Proteins. <i>Angewandte Chemie</i> , 2013 , 125, 6118-6121 | 3.6 | 8 |
| 24 | Infrared Laser Chemistry of Trichlorosilane in View of Silicon Isotope Separation. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8578-8583 | 2.8 | 8 |
| 23 | Isotopically Selective Infrared Multiphoton Dissociation of Vibrationally Excited SiH ₄ . <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5221-5229 | 2.8 | 8 |
| 22 | Infrared Spectroscopy as a Probe of Electronic Energy Transfer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3217-3223 | 6.4 | 8 |
| 21 | Can Mutational Analysis Be Used To Assist Structure Determination of Peptides?. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2401-2404 | 16.4 | 7 |
| 20 | Unravelling the structures of sodiated β -cyclodextrin and its fragments. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13714-13723 | 3.6 | 7 |
| 19 | Rotational and Torsional Analysis of the OH-Stretch Third Overtone in ¹³ CH ₃ OH. <i>Journal of Molecular Spectroscopy</i> , 2002 , 211, 221-227 | 1.3 | 6 |
| 18 | The dipole moment of HOCl in $\nu_{OH}=4$. <i>Journal of Molecular Spectroscopy</i> , 2003 , 221, 116-120 | 1.3 | 6 |
| 17 | Fluorescence detected microwave Stark effect measurements in excited vibrational states of H ₂ CO. <i>Journal of Chemical Physics</i> , 2003 , 119, 8910-8915 | 3.9 | 6 |
| 16 | Quantum State Resolved Studies of Gas/Surface Reaction Dynamics. <i>Chimia</i> , 2004 , 58, 306-310 | 1.3 | 6 |
| 15 | A new approach for identifying positional isomers of glycans cleaved from monoclonal antibodies. <i>Analyst, The</i> , 2021 , 146, 4789-4795 | 5 | 6 |
| 14 | Kinetically Trapped Liquid-State Conformers of a Sodiated Model Peptide Observed in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6838-6844 | 2.8 | 5 |

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| 13 | Efficient, highly selective laser isotope separation of carbon-13. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 83, 311-317 | 1.9 | 5 |
| 12 | Identifying Mixtures of Isomeric Human Milk Oligosaccharides by the Decomposition of IR Spectral Fingerprints. <i>Analytical Chemistry</i> , 2021 , 93, 14730-14736 | 7.8 | 5 |
| 11 | Toward High-Throughput Cryogenic IR Fingerprinting of Mobility-Separated Glycan Isomers.. <i>ACS Measurement Science Au</i> , 2021 , 1, 157-164 | | 5 |
| 10 | Microhydration of Dibenzo-18-Crown-6 Complexes with K, Rb, and Cs Investigated by Cold UV and IR Spectroscopy in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3754-3763 | 2.8 | 4 |
| 9 | Isotopically selective collisional vibrational energy transfer in CF ₃ H. <i>Journal of Chemical Physics</i> , 2007 , 126, 054302 | 3.9 | 4 |
| 8 | Collisionally assisted, highly selective laser isotope separation of carbon-13. <i>Journal of Chemical Physics</i> , 2004 , 121, 11771-9 | 3.9 | 4 |
| 7 | Cryogenic Spectroscopy and Quantum Molecular Dynamics Determine the Structure of Cyclic Intermediates Involved in Peptide Sequence Scrambling. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2524-9 | 6.4 | 3 |
| 6 | Cryogenic Infrared Action Spectroscopy Fingerprints the Hydrogen Bonding Network in Gas-Phase Coumarin Cations. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9942-9950 | 2.8 | 3 |
| 5 | Structural Insights from Tandem Mass Spectrometry, Ion Mobility-Mass Spectrometry, and Infrared/Ultraviolet Spectroscopy on Sphingonodin I: Lasso vs Branched-Cyclic Topoisomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1096-1104 | 3.5 | 3 |
| 4 | UV and IR Spectroscopy of Cryogenically Cooled, Lanthanide-Containing Ions in the Gas Phase. <i>Inorganic Chemistry</i> , 2017 , 56, 277-281 | 5.1 | 2 |
| 3 | Going large(r): general discussion. <i>Faraday Discussions</i> , 2019 , 217, 476-513 | 3.6 | 1 |
| 2 | The Spectroscopy and Photophysics of the Amino Acid Tryptophan in the Gas Phase 1987 , 133-147 | | |
| 1 | Multiple Laser Probes of Intramolecular Dynamics at Chemically Significant Energies. <i>Jerusalem Symposia on Quantum Chemistry and Biochemistry</i> , 1991 , 25-45 | | |