

David J Nesbitt

List of Publications by Year in descending order

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208
papers

11,188
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41627

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97
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219
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219
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times ranked

9537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High-resolution infrared spectroscopy of supersonically cooled singlet carbenes: Bromomethylene (HCB _r) in the CH stretch region. <i>Journal of Chemical Physics</i> , 2022, 156, 014304. | 1.2 | 0 |
| 2 | Regulating and Directionally Controlling Electron Emission from Gold Nanorods with Silica Coatings. <i>Nano Letters</i> , 2022, 22, 644-651. | 4.5 | 8 |
| 3 | Lysine-Dependent Entropy Effects in the <i>B. subtilis</i> Lysine Riboswitch: Insights from Single-Molecule Thermodynamic Studies. <i>Journal of Physical Chemistry B</i> , 2022, 126, 69-79. | 1.2 | 3 |
| 4 | Formation and detection of metastable formic acid in a supersonic expansion: High resolution infrared spectroscopy of the jet-cooled <i>cis</i> -HCOOH conformer. <i>Journal of Chemical Physics</i> , 2022, 156, . | 1.2 | 1 |
| 5 | High-resolution CH stretch spectroscopy of jet-cooled cyclopentyl radical: First insights into equilibrium structure, out-of-plane puckering, and IVR dynamics. <i>Journal of Chemical Physics</i> , 2022, 157, . | 1.2 | 1 |
| 6 | Smaller molecules crowd better: Crowder size dependence revealed by single-molecule FRET studies and depletion force modeling analysis. <i>Journal of Chemical Physics</i> , 2021, 154, 155101. | 1.2 | 20 |
| 7 | Pushing Camera-Based Single-Molecule Kinetic Measurements to the Frame Acquisition Limit with Stroboscopic smFRET. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6080-6089. | 1.2 | 4 |
| 8 | Size Effects in Gold Nanorod Light-to-Heat Conversion under Femtosecond Illumination. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16268-16278. | 1.5 | 18 |
| 9 | Measuring Excess Heat Capacities of Deoxyribonucleic Acid (DNA) Folding at the Single-Molecule Level. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9719-9726. | 1.2 | 2 |
| 10 | Ultrasensitive multispecies spectroscopic breath analysis for real-time health monitoring and diagnostics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 43 |
| 11 | Controlling the Spatial and Momentum Distributions of Plasmonic Carriers: Volume vs Surface Effects. <i>ACS Nano</i> , 2021, 15, 1566-1578. | 7.3 | 15 |
| 12 | State-Resolved Studies of OCS Scattering at the Gas-Liquid Interface: Tests of Landau-Teller/Rapp Theory for Rotational vs Vibrational Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22786-22796. | 1.5 | 1 |
| 13 | Nonadiabatic Dynamics at the Gas-Molten Metal Interface: State-to-State Resolved Scattering of NO from Hot Gallium (600-1000 K). <i>Journal of Physical Chemistry C</i> , 2021, 125, 341-353. | 1.5 | 3 |
| 14 | Effects of Molecular Crowders on Single-Molecule Nucleic Acid Folding: Temperature-Dependent Studies Reveal True Crowding vs Enthalpic Interactions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13147-13157. | 1.2 | 15 |
| 15 | High-resolution infrared spectroscopy of HCF in the CH stretch region. <i>Journal of Chemical Physics</i> , 2020, 152, 014305. | 1.2 | 2 |
| 16 | DNA Hairpin Hybridization under Extreme Pressures: A Single-Molecule FRET Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 110-120. | 1.2 | 16 |
| 17 | Sequential Folding of the Nickel/Cobalt Riboswitch Is Facilitated by a Conformational Intermediate: Insights from Single-Molecule Kinetics and Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7348-7360. | 1.2 | 13 |
| 18 | Continuous angular control over anisotropic photoemission from isotropic gold nanoshells. <i>Journal of Chemical Physics</i> , 2020, 153, 101101. | 1.2 | 8 |

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|----|--|-----|-----------|
| 19 | High pressure single-molecule FRET studies of the lysine riboswitch: cationic and osmolytic effects on pressure induced denaturation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15853-15866. | 1.3 | 13 |
| 20 | Chirality-Dependent Amino Acid Modulation of RNA Folding. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11561-11572. | 1.2 | 9 |
| 21 | Plasmonic nanostar photocathodes for optically-controlled directional currents. <i>Nature Communications</i> , 2020, 11, 1367. | 5.8 | 32 |
| 22 | High-resolution infrared spectroscopy of jet cooled CH ₂ Br radicals: The symmetric CH stretch manifold and absence of nuclear spin cooling. <i>Journal of Chemical Physics</i> , 2020, 152, 134305. | 1.2 | 6 |
| 23 | Single-molecule kinetic studies of DNA hybridization under extreme pressures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23491-23501. | 1.3 | 11 |
| 24 | Low-Energy CO Scattering at the Gas-Liquid Interface: Experimental/Theoretical Evidence for a Novel Subthermal Impulsive Scattering (STIS) Channel. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28006-28017. | 1.5 | 5 |
| 25 | High-resolution infrared spectroscopy of jet cooled <i>trans</i> -deuteriocarbonyl (<i>trans</i> -DOCOC) radical. <i>Journal of Chemical Physics</i> , 2019, 150, 194304. | 1.2 | 2 |
| 26 | Novel Heat-Promoted Folding Dynamics of the <i>yybP-ykoY</i> Manganese Riboswitch: Kinetic and Thermodynamic Studies at the Single-Molecule Level. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5412-5422. | 1.2 | 13 |
| 27 | Suppressed-Doppler slit jet infrared spectroscopy of astrochemically relevant cations: $\hat{1}/21$ and $\hat{1}/24$ NH stretching modes in NH ₃ D ⁺ . <i>Journal of Chemical Physics</i> , 2019, 151, 084302. | 1.2 | 1 |
| 28 | Single-Molecule FRET Kinetics of the Mn ²⁺ Riboswitch: Evidence for Allosteric Mg ²⁺ Control of α -Induced-Fit vs α -Conformational Selection Folding Pathways. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2005-2015. | 1.2 | 25 |
| 29 | Quantum-state-resolved studies of aqueous evaporation dynamics: NO ejection from a liquid water microjet. <i>Journal of Chemical Physics</i> , 2019, 150, 044201. | 1.2 | 12 |
| 30 | Quantum State and Doppler-Resolved Scattering of Thermal/Hyperthermal DCl at the Gas-Liquid Interface: Support for a Simple α -Lever Arm Model of the Energy-Transfer Dynamics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3449-3460. | 1.5 | 6 |
| 31 | Incorporation of isotopic, fluorescent, and heavy-atom-modified nucleotides into RNAs by position-selective labeling of RNA. <i>Nature Protocols</i> , 2018, 13, 987-1005. | 5.5 | 27 |
| 32 | Angle- and Momentum-Resolved Photoelectron Velocity Map Imaging Studies of Thin Au Film and Single Supported Au Nanoshells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3970-3984. | 1.5 | 15 |
| 33 | Sub-Doppler slit jet infrared spectroscopy of astrochemically relevant cations: Symmetric ($\hat{1}/21$) and antisymmetric ($\hat{1}/26$) NH stretching modes in ND ₂ H ⁺ . <i>Journal of Chemical Physics</i> , 2018, 148, 014304. | 1.2 | 7 |
| 34 | Synergistic SHAPE/Single-Molecule Deconvolution of RNA Conformation under Physiological Conditions. <i>Biophysical Journal</i> , 2018, 114, 1762-1775. | 0.2 | 3 |
| 35 | Amino Acid Stabilization of Nucleic Acid Secondary Structure: Kinetic Insights from Single-Molecule Studies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9869-9876. | 1.2 | 19 |
| 36 | Infrared spectroscopy of jet-cooled HCCl singlet chlorocarbene diradical: CH stretching and vibrational coupling dynamics. <i>Journal of Chemical Physics</i> , 2018, 149, 074303. | 1.2 | 4 |

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| 37 | Sub-Doppler slit jet infrared spectroscopy of astrochemically relevant cations: The NH stretching mode in ND ₃ H ⁺ . <i>Journal of Chemical Physics</i> , 2018, 149, 144303. | 1.2 | 3 |
| 38 | Polarization-Controlled Directional Multiphoton Photoemission from Hot Spots on Single Au Nanoshells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14805-14813. | 1.5 | 11 |
| 39 | High-resolution sub-Doppler infrared spectroscopy of atmospherically relevant Criegee precursor CH ₂ I radicals: CH ₂ stretch vibrations and charge-sloshing dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 174308. | 1.2 | 7 |
| 40 | Quantum-State-Resolved Scattering of NO(² Î _{1/2}) from Hot Molten Au(liq): On the Role of Thermal Electron-Hole Pairs in Vibrational Excitation Dynamics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17161-17169. | 1.5 | 5 |
| 41 | Tests of Kramers' Theory at the Single-Molecule Level: Evidence for Folding of an Isolated RNA Tertiary Interaction at the Viscous Speed Limit. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8796-8804. | 1.2 | 13 |
| 42 | Near infrared overtone (νOH = 2 × 0) spectroscopy of Ne-H ₂ O clusters. <i>Journal of Chemical Physics</i> , 2017, 146, 104204. | 1.2 | 9 |
| 43 | Sub-Doppler infrared spectroscopy of CH ₂ OH radical in a slit supersonic jet: Vibration-rotation-tunneling dynamics in the symmetric CH stretch manifold. <i>Journal of Chemical Physics</i> , 2017, 146, 194307. | 1.2 | 5 |
| 44 | Sub-Doppler infrared spectroscopy of resonance-stabilized hydrocarbon intermediates: ³ CH stretch modes and CH ₂ internal rotor dynamics of benzyl radical. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29812-29821. | 1.3 | 7 |
| 45 | Nuclear spin/parity dependent spectroscopy and predissociation dynamics in νOH = 2 × 0 overtone excited Ne-H ₂ O clusters: Theory and experiment. <i>Journal of Chemical Physics</i> , 2017, 147, 214304. | 1.2 | 5 |
| 46 | Angle-resolved molecular beam scattering of NO at the gas-liquid interface. <i>Journal of Chemical Physics</i> , 2017, 147, 054704. | 1.2 | 10 |
| 47 | Quantum state-resolved molecular scattering of NO (² Î _{1/2}) at the gas-liquid interface: Dependence on alkyl chain length, collision energy, and temperature. <i>AIP Advances</i> , 2016, 6, . | 0.6 | 13 |
| 48 | High resolution spectroscopy of jet cooled phenyl radical: The ² Î _{1/2} and ² Î _{3/2} symmetry C-H stretching modes. <i>Journal of Chemical Physics</i> , 2016, 145, 044304. | 1.2 | 7 |
| 49 | Sub-Doppler infrared spectroscopy and formation dynamics of triacetylene in a slit supersonic expansion. <i>Journal of Chemical Physics</i> , 2016, 144, 074301. | 1.2 | 6 |
| 50 | Mechanistic Insights into Cofactor-Dependent Coupling of RNA Folding and mRNA Transcription/Translation by a Cobalamin Riboswitch. <i>Cell Reports</i> , 2016, 15, 1100-1110. | 2.9 | 36 |
| 51 | Quantum State Resolved 3D Velocity Map Imaging of Surface-Scattered Molecules: Incident Energy Effects in HCl + Self-Assembled Monolayer Collisions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16687-16698. | 1.5 | 20 |
| 52 | Amino Acid Specific Effects on RNA Tertiary Interactions: Single-Molecule Kinetic and Thermodynamic Studies. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10615-10627. | 1.2 | 26 |
| 53 | Origin and control of blinking in quantum dots. <i>Nature Nanotechnology</i> , 2016, 11, 661-671. | 15.6 | 396 |
| 54 | Biophysical Insights from Temperature-Dependent Single-Molecule Förster Resonance Energy Transfer. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 441-465. | 4.8 | 24 |

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| 55 | Sub-Doppler infrared spectroscopy of propargyl radical (H ₂ CCCH) in a slit supersonic expansion. <i>Journal of Chemical Physics</i> , 2015, 142, 244313. | 1.2 | 3 |
| 56 | High-resolution spectroscopy of jet-cooled CH ₅ ⁺ : <i>Progress. , 2015, , .</i> | | 0 |
| 57 | Single-Molecule FRET Reveals Three Conformations for the TLS Domain of Brome Mosaic Virus Genome. <i>Biophysical Journal</i> , 2015, 109, 2625-2636. | 0.2 | 10 |
| 58 | Kinetic and Thermodynamic Origins of Osmolyte-Influenced Nucleic Acid Folding. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3687-3696. | 1.2 | 31 |
| 59 | Spectroscopy and Dynamics of Jet-Cooled Polyynes in a Slit Supersonic Discharge: Sub-Doppler Infrared Studies of Diacetylene HCCCCH. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7940-7950. | 1.1 | 9 |
| 60 | Synthesis and applications of RNAs with position-selective labelling and mosaic composition. <i>Nature</i> , 2015, 522, 368-372. | 13.7 | 95 |
| 61 | Nonadiabatic Spin-Orbit Excitation Dynamics in Quantum-State-Resolved NO(² Î _{1/2}) Scattering at the Gas-Room Temperature Ionic Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8596-8607. | 1.5 | 15 |
| 62 | Ultrafast Laser Studies of Two-Photon Excited Fluorescence Intermittency in Single CdSe/ZnS Quantum Dots. <i>Nano Letters</i> , 2015, 15, 7781-7787. | 4.5 | 11 |
| 63 | Pulsed IR Heating Studies of Single-Molecule DNA Duplex Dissociation Kinetics and Thermodynamics. <i>Biophysical Journal</i> , 2014, 106, 220-231. | 0.2 | 22 |
| 64 | Plasmon Mediated Multiphoton Photoemission Microscopy of Au Nanoholes and Nanohole Dimers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6959-6971. | 1.5 | 7 |
| 65 | Single-Molecule Fluorescence Resonance Energy Transfer Studies of the Human Telomerase RNA Pseudoknot: Temperature-/Urea-Dependent Folding Kinetics and Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3853-3863. | 1.2 | 22 |
| 66 | Molecular-crowding effects on single-molecule RNA folding/unfolding thermodynamics and kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8464-8469. | 3.3 | 139 |
| 67 | Anomalously Strong Electric Near-Field Enhancements at Defect Sites on Au Nanoshells Observed by Ultrafast Scanning Photoemission Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22545-22559. | 1.5 | 18 |
| 68 | Coherent Multiphoton Photoelectron Emission from Single Au Nanorods: The Critical Role of Plasmonic Electric Near-Field Enhancement. <i>ACS Nano</i> , 2013, 7, 87-99. | 7.3 | 38 |
| 69 | Single-Molecule Kinetics Reveal Cation-Promoted DNA Duplex Formation Through Ordering of Single-Stranded Helices. <i>Biophysical Journal</i> , 2013, 105, 756-766. | 0.2 | 93 |
| 70 | Multiphoton photoelectron emission microscopy of single Au nanorods: combined experimental and theoretical study of rod morphology and dielectric environment on localized surface plasmon resonances. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10616. | 1.3 | 11 |
| 71 | Sub-Doppler Spectroscopy of the <i>trans</i> -HOCO Radical in the OH Stretching Mode. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13255-13264. | 1.1 | 16 |
| 72 | An RNA folding motif: GNRA tetraloop-receptor interactions. <i>Quarterly Reviews of Biophysics</i> , 2013, 46, 223-264. | 2.4 | 72 |

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| 73 | Sub-Doppler infrared spectroscopy of CH ₂ D radical in a slit supersonic jet: Isotopic symmetry breaking in the CH stretching manifold. <i>Journal of Chemical Physics</i> , 2012, 136, 234308. | 1.2 | 7 |
| 74 | Entropic origin of Mg ²⁺ -facilitated RNA folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2902-2907. | 3.3 | 53 |
| 75 | On probing ions at the gas-liquid interface by quantum state-resolved molecular beam scattering: the curious incident of the cation in the night time. <i>Faraday Discussions</i> , 2012, 157, 297. | 1.6 | 20 |
| 76 | Single-Molecule Studies of the Lysine Riboswitch Reveal Effector-Dependent Conformational Dynamics of the Aptamer Domain. <i>Biochemistry</i> , 2012, 51, 9223-9233. | 1.2 | 45 |
| 77 | Inelastic Scattering of Radicals at the Gas-Ionic Liquid Interface: Probing Surface Dynamics of BMIM ⁺ Cl ⁻ , BMIM ⁺ BF ₄ ⁻ , and BMIM ⁺ Tf ₂ N ⁻ by Rovibronic Scattering of NO [² (0.5)]. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14284-14294. | 1.5 | 18 |
| 78 | Toward State-to-State Dynamics in Ultracold Collisions: Lessons from High-Resolution Spectroscopy of Weakly Bound Molecular Complexes. <i>Chemical Reviews</i> , 2012, 112, 5062-5072. | 23.0 | 30 |
| 79 | The Role of Counterion Valence and Size in GAAA Tetraloop-Receptor Docking/Undocking Kinetics. <i>Journal of Molecular Biology</i> , 2012, 423, 198-216. | 2.0 | 23 |
| 80 | Plasmonic Near-Electric Field Enhancement Effects in Ultrafast Photoelectron Emission: Correlated Spatial and Laser Polarization Microscopy Studies of Individual Ag Nanocubes. <i>Nano Letters</i> , 2012, 12, 4823-4829. | 4.5 | 68 |
| 81 | Thermodynamic Origins of Monovalent Facilitated RNA Folding. <i>Biochemistry</i> , 2012, 51, 3732-3743. | 1.2 | 34 |
| 82 | Multiphoton Scanning Photoionization Imaging Microscopy for Single-Particle Studies of Plasmonic Metal Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 83-91. | 1.5 | 25 |
| 83 | Kinetic Studies of the Photogeneration of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9861-9870. | 1.5 | 11 |
| 84 | Definition of the hydrogen bond (IUPAC Recommendations 2011). <i>Pure and Applied Chemistry</i> , 2011, 83, 1637-1641. | 0.9 | 1,449 |
| 85 | Defining the hydrogen bond: An account (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2011, 83, 1619-1636. | 0.9 | 856 |
| 86 | State-to-state dynamics at the gas-liquid metal interface: Rotationally and electronically inelastic scattering of NO[² (0.5)] from molten gallium. <i>Journal of Chemical Physics</i> , 2011, 134, 234703. | 1.2 | 16 |
| 87 | State-Resolved Scattering at Room-Temperature Ionic Liquid-Vacuum Interfaces: Anion Dependence and the Role of Dynamic versus Equilibrium Effects. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 674-678. | 2.1 | 37 |
| 88 | Real-Time Infrared Overtone Laser Control of Temperature in Picoliter H ₂ O Samples: Nanobathtubs for Single Molecule Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2264-2268. | 2.1 | 19 |
| 89 | Stereodynamics at the Gas-Liquid Interface: Orientation and Alignment of CO ₂ Scattered from Perfluorinated Liquid Surfaces. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1398-1410. | 1.1 | 19 |
| 90 | High resolution Dopplerimetry of correlated angular and quantum state-resolved CO ₂ scattering dynamics at the gas-liquid interface. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14294. | 1.3 | 14 |

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| 91 | Enthalpy-Driven RNA Folding: Single-Molecule Thermodynamics of Tetraloop ⁺ Receptor Tertiary Interaction. <i>Biochemistry</i> , 2009, 48, 2550-2558. | 1.2 | 48 |
| 92 | Single molecule studies of quantum dot fluorescence intermittency: evidence for both dark and light-assisted blinking dynamics. <i>Molecular Physics</i> , 2009, 107, 1867-1878. | 0.8 | 10 |
| 93 | Dynamics of CO ₂ Scattering off a Perfluorinated Self-Assembled Monolayer. Influence of the Incident Collision Energy, Mass Effects, and Use of Different Surface Models. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3850-3865. | 1.1 | 45 |
| 94 | Toward Three-Dimensional Quantum State-Resolved Collision Dynamics at the Gas ⁺ Liquid Interface: Theoretical Investigation of Incident Angle. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4613-4625. | 1.1 | 27 |
| 95 | Monovalent and Divalent Promoted GAAA Tetraloop-Receptor Tertiary Interactions from Freely Diffusing Single-Molecule Studies. <i>Biophysical Journal</i> , 2008, 95, 3892-3905. | 0.2 | 36 |
| 96 | Ab initio large-amplitude quantum-tunneling dynamics in vinyl radical: a vibrationally adiabatic approach. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2113. | 1.3 | 20 |
| 97 | Correlated Angular and Quantum State-Resolved CO ₂ Scattering Dynamics at the Gas ⁺ Liquid Interface. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9324-9335. | 1.1 | 26 |
| 98 | Quantum State-Resolved CO ₂ Collisions at the Gas ⁺ Liquid Interface: θ Surface Temperature-Dependent Scattering Dynamics. <i>Journal of Physical Chemistry B</i> , 2008, 112, 507-519. | 1.2 | 43 |
| 99 | Stereodynamics in state-resolved scattering at the gas ⁺ liquid interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12684-12689. | 3.3 | 50 |
| 100 | Quantum-state resolved reactive scattering at the gas-liquid interface: F+squalane ⁺ (C ₃₀ H ₆₂) dynamics via high-resolution infrared absorption of nascent HF(ν_1). <i>Journal of Chemical Physics</i> , 2008, 129, 194705. | 1.2 | 27 |
| 101 | Molecular Spectroscopy at Low Temperatures: A High Resolution Infrared Retrospective. , 2008, , 231-294. | | 2 |
| 102 | Spectroscopy in slit supersonic jet discharges: fine and hyperfine structure calculations for asymmetric top radicals with multiple nuclear spins. <i>Molecular Physics</i> , 2007, 105, 467-475. | 0.8 | 6 |
| 103 | Quantum-State-Resolved CO ₂ Scattering Dynamics at the Gas ⁺ Liquid Interface: θ Dependence on Incident Angle θ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 7420-7430. | 1.1 | 41 |
| 104 | Quantum-State-Resolved CO ₂ Scattering Dynamics at the Gas ⁺ Liquid Interface: θ Incident Collision Energy and Liquid Dependence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17126-17137. | 1.2 | 63 |
| 105 | Metal Ion Dependence, Thermodynamics, and Kinetics for Intramolecular Docking of a GAAA Tetraloop and Receptor Connected by a Flexible Linker. <i>Biochemistry</i> , 2006, 45, 3664-3673. | 1.2 | 50 |
| 106 | Slit Discharge IR Spectroscopy of a Jet-Cooled Cyclopropyl Radical: θ Structure and Intramolecular Tunneling Dynamics. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3059-3070. | 1.1 | 27 |
| 107 | High-resolution infrared studies in slit supersonic discharges: CH ₂ stretch excitation of jet-cooled CH ₂ Cl radical. <i>Journal of Chemical Physics</i> , 2006, 125, 054303. | 1.2 | 22 |
| 108 | Jet-cooled infrared spectroscopy in slit supersonic discharges: Symmetric and antisymmetric CH ₂ stretching modes of fluoromethyl (CH ₂ F) radical. <i>Journal of Chemical Physics</i> , 2006, 125, 054304. | 1.2 | 12 |

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| 109 | Jet cooled spectroscopy of H ₂ DO ⁺ : Barrier heights and isotope-dependent tunneling dynamics from H ₃ O ⁺ to D ₃ O ⁺ . <i>Journal of Chemical Physics</i> , 2006, 125, 144311. | 1.2 | 31 |
| 110 | Imaging nanostructures with scanning photoionization microscopy. <i>Journal of Chemical Physics</i> , 2006, 125, 154709. | 1.2 | 20 |
| 111 | Supersonically cooled hydronium ions in a slit-jet discharge: High-resolution infrared spectroscopy and tunneling dynamics of HD ₂ O ⁺ . <i>Journal of Chemical Physics</i> , 2005, 122, 224301. | 1.2 | 26 |
| 112 | Docking kinetics and equilibrium of a GAAA tetraloop-receptor motif probed by single-molecule FRET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10505-10510. | 3.3 | 92 |
| 113 | Direct evidence for nonadiabatic dynamics in atom+polyatom reactions: Crossed-jet laser studies of F+D ₂ O ⁺ →DF+OD. <i>Journal of Chemical Physics</i> , 2005, 123, 224307. | 1.2 | 39 |
| 114 | Quantum State-Resolved Energy Transfer Dynamics at Gas-Liquid Interfaces: IR Laser Studies of CO ₂ Scattering from Perfluorinated Liquids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16396-16405. | 1.2 | 70 |
| 115 | Vibrationally mediated dissociation dynamics of H ₂ O in the ν _{OH} =2 polyad. <i>Journal of Chemical Physics</i> , 2003, 119, 10158-10168. | 1.2 | 15 |
| 116 | Probing hydrogen bond potential surfaces for out-of-plane geometries: Near-infrared combination band torsional (1 ¹ / ₂ 6) spectroscopy in (HCl) ₂ . <i>Journal of Chemical Physics</i> , 2003, 118, 10137-10148. | 1.2 | 9 |
| 117 | Probing potential surfaces for hydrogen bonding: Near-infrared combination band spectroscopy of van der Waals stretch (1 ¹ / ₂ 4) and geared bend (1 ¹ / ₂ 5) vibrations in (HCl) ₂ . <i>Journal of Chemical Physics</i> , 2002, 116, 6132-6145. | 1.2 | 13 |
| 118 | Beyond the Born-Oppenheimer approximation: High-resolution overtone spectroscopy of H ₂ D ⁺ and D ₂ H ⁺ . <i>Journal of Chemical Physics</i> , 2002, 116, 6146-6158. | 1.2 | 31 |
| 119 | Intramolecular energy flow and nonadiabaticity in vibrationally mediated chemistry: Wave packet studies of Cl+H ₂ O. <i>Journal of Chemical Physics</i> , 2002, 116, 1406-1416. | 1.2 | 44 |
| 120 | Reactive scattering of F+HD ⁺ →HF(v,j)+D: nascent product state distributions and evidence for quantum transition state resonances. <i>Journal of Chemical Physics</i> , 2002, 116, 5622-5632. | 1.2 | 49 |
| 121 | Fluorescence intermittency of single semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2001, 115, 1028-1040. | 1.2 | 504 |
| 122 | High-resolution IR studies of hydrogen bonded clusters: Large amplitude dynamics in (HCl) _n . <i>Faraday Discussions</i> , 2001, 118, 63-78. | 1.6 | 27 |
| 123 | Concentration modulation spectroscopy with a pulsed slit supersonic discharge expansion source. <i>Chemical Physics Letters</i> , 2001, 344, 23-30. | 1.2 | 59 |
| 124 | Reactivity of vibrationally excited methane on nickel surfaces. <i>Journal of Chemical Physics</i> , 2001, 115, 5611-5619. | 1.2 | 77 |
| 125 | Laser spectroscopy of jet-cooled ethyl radical: Infrared studies in the CH ₂ stretch manifold. <i>Journal of Chemical Physics</i> , 2000, 112, 1823-1834. | 1.2 | 36 |
| 126 | Quantum state-resolved reactive scattering of F+CH ₄ →HF(v,j)+CH ₃ : Nascent HF(v,j) product state distributions. <i>Journal of Chemical Physics</i> , 2000, 113, 3670-3680. | 1.2 | 73 |

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