

David J Nesbitt

List of Publications by Year in descending order

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208
papers

11,188
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36271

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#	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 â†•0) spectroscopy of Neâ€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: ¹ / ₂ 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 â†•0 overtone excited Neâ€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 (2Î _{1/2}) at the gas-[C _n mim][Tf ₂ N] room temperature ionic 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 Î ₂ 1 and Î ₂ 2â€ symmetry Câ€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 FÃ†rster 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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127	Bond-breaking in quantum state selected clusters: Inelastic and nonadiabatic intracollision dynamics in Ar+H ₂ O+Ar+H(2S)+OH(2 $\hat{1}$ /2,3/2 \hat{A} \pm ;N). Journal of Chemical Physics, 2000, 112, 7449-7460.	1.2	23
128	Cluster photofragmentation dynamics: Quasiclassical trajectory studies of Ar+H ₂ S and Ar+SH (n=1,2). Journal of Chemical Physics, 2000, 113, 10962-10972.	1.2	9
129	Nonexponential "blinking" kinetics of single CdSe quantum dots: A universal power law behavior. Journal of Chemical Physics, 2000, 112, 3117-3120.	1.2	669
130	Vibrationally mediated photolysis dynamics of H ₂ O in the vOH=3 manifold: Far off resonance photodissociation cross sections and OH product state distributions. Journal of Chemical Physics, 1999, 110, 8564-8576.	1.2	19
131	Dynamics of collisional alignment in supersonic expansions: Trajectory studies of He+CO, O ₂ , and CO ₂ . Journal of Chemical Physics, 1999, 111, 6821-6833.	1.2	22
132	High-resolution diode laser study of H ₂ +H ₂ O van der Waals complexes: H ₂ O as proton acceptor and the role of large amplitude motion. Journal of Chemical Physics, 1999, 110, 156-167.	1.2	54
133	Rotationally inelastic scattering of jet cooled H ₂ O with Ar: State-to-state cross sections and rotational alignment effects. Journal of Chemical Physics, 1999, 110, 8543-8554.	1.2	32
134	Energy-dependent cross sections and nonadiabatic reaction dynamics in F(2P _{3/2} ,2P _{1/2})+H ₂ +HF(v,J)+H. Journal of Chemical Physics, 1999, 111, 8404-8416.	1.2	62
135	High-resolution infrared spectroscopy of jet-cooled allyl radical (CH ₂ +CH+CH ₂): In-phase ($\hat{1}$ /2 ₁) and out-of-phase ($\hat{1}$ /2 ₁₃) antisymmetric CH ₂ stretching vibrations. Journal of Chemical Physics, 1998, 109, 7793-7802.	1.2	34
136	Quantum state-resolved reactive scattering of F+H ₂ in supersonic jets: Nascent HF(v,J) rovibrational distributions via IR laser direct absorption methods. Journal of Chemical Physics, 1998, 109, 9306-9317.	1.2	55
137	Bond-selective photofragmentation of jet-cooled HOD at 193 nm: Vibrationally mediated photochemistry with zero-point excitation. Journal of Chemical Physics, 1998, 109, 6631-6640.	1.2	36
138	OH stretch overtone spectroscopy and transition dipole alignment of HOD. Journal of Chemical Physics, 1998, 108, 72-80.	1.2	39
139	High resolution mid-infrared spectroscopy of ArH ₂ O: The v ₂ bend region of H ₂ O. Journal of Chemical Physics, 1997, 106, 3078-3089.	1.2	49
140	High resolution vibrational overtone studies of HOD and H ₂ O with single mode, injection seeded ring optical parametric oscillators. Journal of Chemical Physics, 1997, 107, 8854-8865.	1.2	34
141	State-to-state reactive scattering of F+H ₂ in supersonic jets: Nascent rovibrational HF(v,J) distributions via direct IR laser absorption. Journal of Chemical Physics, 1997, 107, 8193-8196.	1.2	47
142	Sequential solvation of HCl in argon: High resolution infrared spectroscopy of ArnHCl (n=1,2,3). Journal of Chemical Physics, 1997, 107, 1115-1127.	1.2	46
143	Jet-cooled molecular radicals in slit supersonic discharges: Sub-Doppler infrared studies of methyl radical. Journal of Chemical Physics, 1997, 107, 5661-5675.	1.2	103
144	Scattering dynamics in HF+He, Ne, and Ar: State-to-state cross sections, Dopplerimetry, and alignment measurement via direct infrared laser absorption in crossed supersonic jets. Journal of Chemical Physics, 1997, 106, 2248-2264.	1.2	35

#	ARTICLE	IF	CITATIONS
145	Photodissociation dynamics of jet-cooled H ₂ O and D ₂ O in the non-Franck-Condon regime: Relative absorption cross sections and product state distributions at 193 nm. Journal of Chemical Physics, 1997, 107, 6123-6135.	1.2	34

146	Rotationally inelastic scattering in CH ₄ +He, Ne, and Ar: State-to-state cross sections via direct infrared laser absorption in crossed supersonic jets. Journal of Chemical Physics, 1996, 105, 3497-3516.	1.2	43
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#	ARTICLE	IF	CITATIONS
163	Stabilization and precise calibration of a continuous-wave difference frequency spectrometer by use of a simple transfer cavity. <i>Review of Scientific Instruments</i> , 1994, 65, 42-48.	0.6	94
164	Photodissociation dynamics in quantum state-selected clusters: A test of the one-atom cage effect in Ar-H ₂ O. <i>Journal of Chemical Physics</i> , 1994, 101, 6356-6358.	1.2	54
165	Large amplitude skeletal isomerization as a promoter of intramolecular vibrational relaxation in CH stretch excited hydrocarbons. <i>Journal of Chemical Physics</i> , 1994, 101, 3421-3435.	1.2	49
166	Pressure broadening and collisional narrowing in OH($v=1$) rovibrational transitions with Ar, He, O ₂ , and N ₂ . <i>Journal of Chemical Physics</i> , 1994, 100, 2677-2689.	1.2	26
167	High resolution near infrared spectroscopy of HCl-DCl and DCl-HCl: Relative binding energies, isomer interconversion rates, and mode specific vibrational predissociation. <i>Journal of Chemical Physics</i> , 1994, 100, 7250-7267.	1.2	38
168	Quantum yields for OH production from 193 and 248 nm photolysis of HNO ₃ and H ₂ O ₂ . <i>Journal of Chemical Physics</i> , 1993, 98, 6935-6946.	1.2	72
169	High resolution, jet-cooled infrared spectroscopy of (HCl) ₂ : Analysis of $\hat{1}/2$ and $\hat{1}/2$ HCl stretching fundamentals, interconversion tunneling, and mode-specific predissociation lifetimes. <i>Journal of Chemical Physics</i> , 1993, 99, 4346-4362.	1.2	92
170	Slit-jet near-infrared diode laser spectroscopy of (DCl) ₂ : $\hat{1}/2$ $\hat{1}/2$ DCl stretching fundamentals, tunneling dynamics, and the influence of large amplitude "geared" intermolecular rotation. <i>Journal of Chemical Physics</i> , 1993, 99, 5045-5060.	1.2	37
171	Rigid bender analysis of van der Waals complexes: The intermolecular bending potential of a hydrogen bond. <i>Journal of Chemical Physics</i> , 1992, 96, 5712-5725.	1.2	22
172	Intermolecular HF motion in Ar _n HF micromatrices (n=1,2,3,4): Classical and quantum calculations on a pairwise additive potential surface. <i>Journal of Chemical Physics</i> , 1992, 97, 6044-6056.	1.2	31
173	A spectroscopic puzzle in ArHF solved: The test of a new potential. <i>Journal of Chemical Physics</i> , 1992, 97, 8009-8018.	1.2	47
174	High-resolution infrared overtone spectroscopy of ArHF via Nd:YAG/dye laser difference frequency generation. <i>Journal of Chemical Physics</i> , 1992, 97, 7967-7978.	1.2	33
175	Vibration, rotation, and parity specific predissociation dynamics in asymmetric OH stretch excited ArH ₂ O: A half collision study of resonant V-V energy transfer in a weakly bound complex. <i>Journal of Chemical Physics</i> , 1992, 97, 8096-8110.	1.2	65
176	Slit-jet near-infrared spectroscopy and internal rotor dynamics of the ArH ₂ O van der Waals complex: An angular potential energy surface for internal H ₂ O rotation. <i>Journal of Chemical Physics</i> , 1991, 95, 7917-7932.	1.2	73
177	Investigation of internal rotor dynamics of NeDCl and ArDCl via infrared absorption spectroscopy. <i>Journal of Chemical Physics</i> , 1991, 94, 5796-5811.	1.2	29
178	Rotational predissociation, vibrational mixing, and van der Waals intermolecular potentials of NeDF. <i>Journal of Chemical Physics</i> , 1991, 94, 208-223.	1.2	28
179	Mode specific internal and direct rotational predissociation in HeHF, HeDF, and HeHCl: van der Waals complexes in the weak binding limit. <i>Journal of Chemical Physics</i> , 1990, 93, 5387-5407.	1.2	92
180	A study of the structure and dynamics of the hydronium ion by high resolution infrared laser spectroscopy. III. The $\hat{1}/2$ band of D ₃ O ⁺ . <i>Journal of Chemical Physics</i> , 1990, 92, 3257-3260.	1.2	21

#	ARTICLE	IF	CITATIONS
181	Multiple intermolecular bend vibrational excitation of a hydrogen bond: An extended infrared study of OCOHF. <i>Journal of Chemical Physics</i> , 1990, 93, 7716-7730.	1.2	39
182	Vibrational mode mixing in terminal acetylenes: High-resolution infrared laser study of isolated J states. <i>Journal of Chemical Physics</i> , 1990, 92, 2229-2243.	1.2	126
183	The infrared spectra of nitrous oxide-HF isomers. <i>Journal of Chemical Physics</i> , 1989, 90, 4671-4680.	1.2	74
184	High-resolution, slit jet infrared spectroscopy of hydrocarbons: Quantum state specific mode mixing in CH stretch-excited propyne. <i>Journal of Chemical Physics</i> , 1989, 91, 104-113.	1.2	98
185	The dipole moment function and vibrational transition intensities of OH. <i>Journal of Chemical Physics</i> , 1989, 90, 5455-5465.	1.2	48
186	Weakly bound NeHF. <i>Journal of Chemical Physics</i> , 1989, 91, 711-721.	1.2	47
187	Slit jet infrared spectroscopy of NeHF complexes: Internal rotor and J-dependent predissociation dynamics. <i>Journal of Chemical Physics</i> , 1989, 91, 722-731.	1.2	70
188	Calculation of vibration-rotation spectra for rare gas-HCl complexes. <i>Journal of Chemical Physics</i> , 1989, 90, 7000-7013.	1.2	66
189	Symmetry breaking in HCl and DCl dimers: A direct near-infrared measurement of interconversion tunneling rates. <i>Journal of Chemical Physics</i> , 1989, 91, 4418-4419.	1.2	50
190	Intramolecular dynamics of van der Waals molecules: An extended infrared study of ArHF. <i>Journal of Chemical Physics</i> , 1989, 91, 2790-2807.	1.2	88
191	The infrared spectrum of D ₂ HF. <i>Journal of Chemical Physics</i> , 1988, 89, 7180-7188.	1.2	71
192	Visible absorption and magnetic rotation spectroscopy of 1CH ₂ : Analysis of the 1A ₁ state and the 1A ₁ -3B ₁ coupling. <i>Journal of Chemical Physics</i> , 1987, 86, 1189-1205.	1.2	95
193	High sensitivity, high-resolution IR laser spectroscopy in slit supersonic jets: Application to N ₂ HF $\hat{v}_{1/2}1$ and $\hat{v}_{1/2}5+\hat{v}_{1/2}1\hat{v}_{1/2}5$. <i>Journal of Chemical Physics</i> , 1987, 86, 3151-3165.	1.2	114
194	Direct IR laser absorption spectroscopy of jet-cooled CO ₂ HF complexes: Analysis of the $\hat{v}_{1/2}1$ HF stretch and a surprisingly low frequency $\hat{v}_{1/2}6$ intermolecular CO ₂ bend. <i>Journal of Chemical Physics</i> , 1987, 86, 5337-5349.	1.2	77
195	The near-infrared spectrum of ONNH ₂ -direct evidence for geometric isomerism in a hydrogen bonded complex. <i>Journal of Chemical Physics</i> , 1987, 87, 1450-1451.	1.2	75
196	Visible absorption and magnetic rotation spectroscopy of 1CH ₂ : The analysis of the b ₁ 1B ₁ state. <i>Journal of Chemical Physics</i> , 1987, 86, 1172-1188.	1.2	113
197	Hindered internal rotation in jet cooled H ₂ HF complexes. <i>Journal of Chemical Physics</i> , 1987, 87, 5621-5628.	1.2	111
198	Slit pulsed valve for generation of long-path-length supersonic expansions. <i>Review of Scientific Instruments</i> , 1987, 58, 807-811.	0.6	113

#	ARTICLE	IF	CITATIONS
199	Probability oscillations in single pass curve crossings: Semiclassical predictions of nonmonotonic dependence on crossing velocity. <i>Journal of Chemical Physics</i> , 1986, 84, 1554-1564.	1.2	6
200	High resolution IR laser spectroscopy of van der Waals complexes in slit supersonic jets: Observation and analysis of $\hat{1}\frac{1}{2}1$, $\hat{1}\frac{1}{2}1+\hat{1}\frac{1}{2}2$, and $\hat{1}\frac{1}{2}1+2\hat{1}\frac{1}{2}3$ in ArHF. <i>Journal of Chemical Physics</i> , 1986, 85, 4890-4902.	1.2	103
201	Photofragmentation dynamics of ketene at 308 nm: Initial vibrational and rotational state distributions of CO product by vacuum UV laser-induced fluorescence. <i>Journal of Chemical Physics</i> , 1985, 83, 223-229.	1.2	71
202	A study of the $\hat{1}\frac{1}{2}1$ fundamental and bend-excited hot band of DNN+ by velocity modulation absorption spectroscopy with an infrared difference frequency laser. <i>Journal of Chemical Physics</i> , 1984, 81, 5281-5287.	1.2	47
203	Slow vibrational relaxation in picosecond iodine recombination in liquids. <i>Journal of Chemical Physics</i> , 1982, 77, 2130-2143.	1.2	154
204	Vibrational energy transfer from highly excited anharmonic oscillators. Dependence on quantum state and interaction potential. <i>Journal of Chemical Physics</i> , 1982, 76, 6002-6014.	1.2	85
205	Laser initiated chain reactions: A generalized extension to complex chemical chain systems. <i>Journal of Chemical Physics</i> , 1981, 75, 4949-4959.	1.2	29
206	Laser-initiated chemical chain reactions. <i>Journal of Chemical Physics</i> , 1980, 72, 1722-1732.	1.2	38
207	$\text{Br}^*(2P_{1/2})+\text{H}_2(v=0,1)$: Laser studies of the competition between reactive pathways and inelastic energy transfer channels. <i>Journal of Chemical Physics</i> , 1980, 73, 6182-6190.	1.2	36
208	High Resolution Infrared Spectroscopy of Highly Reactive Chemical Intermediates: Berkeley Inspiration and a C.B. Moore Retrospective. <i>ACS Symposium Series</i> , 0, , 307-332.	0.5	0