Timothy S Zwier

List of Publications by Year
in descending order

149 papers	6,438 citations	61857 43 h-index	71532 76 g-index
150 all docs	150 docs citations	150 times ranked	3631 citing authors

#	Article	IF	Citations
1	THE SPECTROSCOPY OF SOLVATION IN HYDROGEN-BONDED AROMATIC CLUSTERS. Annual Review of Physical Chemistry, 1996, 47, 205-241.	4.8	488
2	Laser Spectroscopy of Jet-Cooled Biomolecules and Their Water-Containing Clusters:Â Water Bridges and Molecular Conformation. Journal of Physical Chemistry A, 2001, 105, 8827-8839.	1.1	293
3	Multiphoton ionization studies of clusters of immiscible liquids. I. C6H6â€“(H2O)n,n=1,2. Journal of Chemical Physics, 1992, 96, 3388-3401.	1.2	260
4	Theoretical modeling of the OH stretch infrared spectrum of carboxylic acid dimers based on first-principles anharmonic couplings. Journal of Chemical Physics, 2003, 118, 1735-1746.	1.2	203
5	Theoretical Characterization of the Structures and Vibrational Spectra of Benzeneâ^'(H2O)n(n= 1â^'3) Clusters. The Journal of Physical Chemistry, 1996, 100, 7810-7821.	2.9	187
6	Density Functional Theory Calculations of the Structures, Binding Energies, and Infrared Spectra of Methanol Clusters. Journal of Physical Chemistry A, 1998, 102, 82-94.	1.1	183
7	Conformational Dynamics in a Dipeptide After Single-Mode Vibrational Excitation. Science, 2002, 296, 2369-2373.	6.0	182
8	Direct Measurement of Energy Thresholds to Conformational Isomerization in Tryptamine. Science, 2004, 303, 1169-1173.	6.0	152
9	Laser Probes of Conformational Isomerization in Flexible Molecules and Complexes. Journal of Physical Chemistry A, 2006, 110, 4133-4150.	1.1	152
10	Plant Sunscreens in the UV-B: Ultraviolet Spectroscopy of Jet-Cooled Sinapoyl Malate, Sinapic Acid, and Sinapate Ester Derivatives. Journal of the American Chemical Society, 2014, 136, 14780-14795.	6.6	141
11	The Infrared and Ultraviolet Spectra of Individual Conformational Isomers of Biomolecules:Â Tryptamine. Journal of Physical Chemistry A, 2000, 104, 8677-8688.	1.1	139
12	CHEMISTRY: Enhanced: The Structure of Protonated Water Clusters. Science, 2004, 304, 1119-1120.	6.0	129
13	Infrared and Ultraviolet Spectroscopy of Water-Containing Clusters of Indole, 1-Methylindole, and 3-Methylindole. Journal of Physical Chemistry A, 1999, 103, 9943-9957.	1.1	126
14	Resonant ion-dip infrared spectroscopy of benzeneâ€“(methanol)m clusters with m=1â€“6. Journal of Chemical Physics, 1997, 106, 2145-2157.	1.2	124
15	The infrared and ultraviolet spectra of single conformations of methyl-capped dipeptides: N-acetyl tryptophan amide and N-acetyl tryptophan methyl amide. Journal of Chemical Physics, 2002, 117, 10688-10702.	1.2	122
16	The hydrogen-bonding topologies of indoleâ€“(water)n clusters from resonant ion-dip infrared spectroscopy. Journal of Chemical Physics, 1998, 108, 3379-3382.	1.2	113
17	Multiphoton ionization studies of clusters of immiscible liquids. II. C6H6â€“(H2O)n, n=3â€“8 and (C6H6)2â€“(H2O)1,2. Journal of Chemical Physics, 1992, 96, 3402-3410.	1.2	102
18	Electronic and Infrared Spectroscopy of Anthranilic Acid in a Supersonic Jet. Journal of Physical Chemistry A, 2003, 107, 4032-4040.	1.1	93

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19	Laser-Initiated Shuttling of a Water Molecule Between H-Bonding Sites. Science, 2005, 307, 1443-1446.	6.0	92
20	Hydride stretch infrared spectra in the excited electronic states of indole and its derivatives: Direct evidence for the [sup 1]Ï€Ï*f* [sup â^—] state. Journal of Chemical Physics, 2003, 118, 2696.	1.2	90
21	The dynamics of conformational isomerization in flexible biomolecules. I. Hole-filling spectroscopy of N-acetyl tryptophan methyl amide and N-acetyl tryptophan amide. Journal of Chemical Physics, 2004, 120, 133-147.	1.2	84
22	Fluorescence-dip IR spectra of jet-cooled benzoic acid dimer in its ground and first excited singlet states. Faraday Discussions, 2001, 118, 315-330.	1.6	80
23	The infrared spectroscopy of hydrogen-bonded bridges: 2-pyridone-(water)n and 2-hydroxypyridine-(water)n clusters, n=1,2. Journal of Chemical Physics, 2000, 113, 11143-11153.	1.2	79
24	Evolution of Amide Stacking in Larger Î³-Peptides: Triamide H-Bonded Cycles. Journal of Physical Chemistry A, 2011, 115, 13783-13798.	1.1	77
25	Single-conformation infrared spectra of model peptides in the amide I and amide II regions: Experiment-based determination of local mode frequencies and inter-mode coupling. Journal of Chemical Physics, 2012, 137, 094301.	1.2	71
26	A novel ion trap based tandem mass spectrometer for the spectroscopic study of cold gas phase polyatomic ions. International Journal of Mass Spectrometry, 2013, 348, 9-14.	0.7	70
27	Câ^'H Stretch Modes as a Probe of H-Bonding in Methanol-Containing Clusters. Journal of Physical Chemistry A, 1999, 103, 496-502.	1.1	61
28	The spectroscopy and dynamics of Ï€ hydrogenâ€bonded complexes: Benzeneâ€"HCl/DCl and tolueneâ€"HCl/DCl. Journal of Chemical Physics, 1990, 93, 6977-6986.	1.2	60
29	Single-Conformation Ultraviolet and Infrared Spectroscopy of Model Synthetic Foldamers:â€‰ Î²-Peptides Ac-Î²³-hPhe-NHMe and Ac-Î²³-hTyr-NHMe. Journal of the American Chemical Society, 2008, 130, 4784-4794.	6.6	59
30	Intramolecular Amide Stacking and Its Competition with Hydrogen Bonding in a Small Foldamer. Journal of the American Chemical Society, 2009, 131, 14243-14245.	6.6	58
31	Hydrogen atom dislocation in the excited state of anthranilic acid: probing the carbonyl stretch fundamental and the effects of water complexation. Physical Chemistry Chemical Physics, 2004, 6, 2605.	1.3	55
32	Single-Conformation and Diastereomer Specific Ultraviolet and Infrared Spectroscopy of Model Synthetic Foldamers: Î±/Î²-Peptides. Journal of the American Chemical Society, 2009, 131, 6574-6590.	6.6	55
33	Infrared and Ultraviolet Spectroscopy of Jet-Cooledortho-,meta-, andpara-Diethynylbenzeneâ€. Journal of Physical Chemistry A, 2003, 107, 10717-10724.	1.1	54
34	Solvation of a Flexible Biomolecule in the Gas Phase:Â The Ultraviolet and Infrared Spectroscopy of Melatoninâ^'Water Clusters. Journal of Physical Chemistry A, 2003, 107, 974-983.	1.1	54
35	The Role of Water Bridges in Directing the Conformational Preferences of 3-Indole-propionic Acid and Tryptamine. Journal of the American Chemical Society, 2001, 123, 5596-5597.	6.6	53
36	Single-Conformation Ultraviolet and Infrared Spectroscopy of Model Synthetic Foldamers:â€‰ Î²-Peptides Ac-Î²³-hPhe-Î²³-hAla-NHMe and Ac-Î²³-hAla-Î²³-hPhe-NHMe. Journal of the American Chemical Society, 2008, 130, 4795-4807.	6.6	52

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37	Mixed 14/16 Helices in the Gas Phase: Conformation-Specific Spectroscopy of Z-(Gly)_n, n = 1, 3, 5. Journal of the American Chemical Society, 2012, 134, 17186-17201.	6.6	52
38	Multiphoton ionization studies of C6H6â€“(CH3OH)n clusters. I. Comparisons with C6H6â€“(H2O)n clusters. Journal of Chemical Physics, 1992, 96, 7245-7258.	1.2	50
39	Infrared and Ultraviolet Spectral Signatures and Conformational Preferences of Jet-Cooled Serotonin. Journal of the American Chemical Society, 2007, 129, 4028-4038.	6.6	47
40	Towards a first-principles model of Fermi resonance in the alkyl CH stretch region: Application to 1,2-diphenylethane and 2,2,2-paracyclophane. Journal of Chemical Physics, 2013, 138, 064308.	1.2	46
41	The ultraviolet photochemistry of diacetylene: Direct detection of primary products of the metastable C4H*2 + C4H2 reaction. Journal of Chemical Physics, 1993, 98, 5362-5374.	1.2	44
42	Ultraviolet spectroscopy of fundamental lignin subunits: Guaiacol, 4-methylguaiacol, syringol, and 4-methylsyringol. Journal of Chemical Physics, 2013, 139, 144313.	1.2	44
43	UV and IR spectroscopy of cold protonated leucine enkephalin. International Journal of Mass Spectrometry, 2015, 378, 196-205.	0.7	44
44	Isomer-Specific Spectroscopy of Benzeneâ€“(H₂O)_n, n = 6,7: Benzeneâ€™s Role in Reshaping Waterâ€™s Three-Dimensional Networks. Journal of Physical Chemistry Letters, 2015, 6, 1989-1995.	2.1	42
45	Modeâ€selective photoisomerization in 5â€hydroxytropolone. I. Experiment. Journal of Chemical Physics, 1995, 102, 5246-5259.	1.2	41
46	Competition between Amide Stacking and Intramolecular H Bonds in Î³-Peptide Derivatives: Controlling Nearest-Neighbor Preferences. Journal of Physical Chemistry A, 2011, 115, 11960-11970.	1.1	41
47	Fermi Resonance Effects in the Vibrational Spectroscopy of Methyl and Methoxy Groups. Journal of Physical Chemistry A, 2014, 118, 11272-11281.	1.1	41
48	Entropy-driven population distributions in a prototypical molecule with two flexible side chains: O-(2-acetamidoethyl)-N-acetyltyramine. Journal of Chemical Physics, 2007, 127, 234315.	1.2	40
49	Aromatic Ring-Forming Reactions of Metastable Diacetylene with 1,3-Butadiene. Journal of Physical Chemistry A, 1998, 102, 3315-3322.	1.1	39
50	The dynamics of conformational isomerization in flexible biomolecules. II. Simulating isomerizations in a supersonic free jet with master equation dynamics. Journal of Chemical Physics, 2004, 120, 148-157.	1.2	39
51	Anharmonic modeling of the conformation-specific IR spectra of ethyl, n-propyl, and n-butylbenzene. Journal of Chemical Physics, 2016, 144, 224310.	1.2	37
52	State-specific studies of internal mixing in a prototypical flexible bichromophore: Diphenylmethane. Journal of Chemical Physics, 2008, 129, 114301.	1.2	36
53	Infrared-induced conformational isomerization and vibrational relaxation dynamics in melatonin and 5-methoxy-N-acetyl tryptophan methyl amide. Journal of Chemical Physics, 2004, 120, 9033-9046.	1.2	35
54	Laser Spectroscopy of Conformationally Constrained Î±/Î²-Peptides: Ac-ACPC-Phe-NHMe and Ac-Phe-ACPC-NHMe. Journal of Physical Chemistry A, 2010, 114, 1581-1591.	1.1	34

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55	Single-conformation spectroscopy and population analysis of model Î³-peptides: New tests of amide stacking. Faraday Discussions, 2011, 150, 209.	1.6	32
56	Gas-Phase Folding of a Prototypical Protonated Pentapeptide: Spectroscopic Evidence for Formation of a Charge-Stabilized Î²-Hairpin. Journal of the American Chemical Society, 2016, 138, 2849-2857.	6.6	31
57	Photochemical and Discharge-Driven Pathways to Aromatic Products from 1,3-Butadiene. Journal of Physical Chemistry A, 2007, 111, 10914-10927.	1.1	30
58	A First-Principles Model of Fermi Resonance in the Alkyl CH Stretch Region: Application to Hydronaphthalenes, Indanes, and Cyclohexane. Journal of Physical Chemistry B, 2014, 118, 8236-8245.	1.2	30
59	Local Mode Approach to OH Stretch Spectra of Benzeneâ€"(H₂O)_n Clusters, n = 2â€"7. Journal of Physical Chemistry A, 2015, 119, 9917-9930.	1.1	30
60	Cyclic Constraints on Conformational Flexibility in Î³-Peptides: Conformation Specific IR and UV Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 12350-12362.	1.1	29
61	Resonant Ion-Dip Infrared Spectroscopy of Ternary Benzeneâ^'(Water)n(Methanol)m Hydrogen-Bonded Clusters. Journal of Physical Chemistry A, 1999, 103, 503-513.	1.1	28
62	The Spectroscopic Consequences of Câ^'HÂ·Â·Â·Ï€ H-Bonding:â€‰ C6H6â^'(C4H2)n Clusters with n = 1 and 2. Journal of Physical Chemistry A, 2003, 107, 10280-10287.	1.1	28
63	Rotationally resolved studies of S and the exciton coupled S1/S2 origin regions of diphenylmethane and the d12 isotopologue. Journal of Chemical Physics, 2008, 129, 224305.	1.2	28
64	Vibronically stateâ€selective photoisomerization in 5â€hydroxytropolone. Journal of Chemical Physics, 1993, 99, 8341-8344.	1.2	27
65	Spectroscopy and ionization thresholds of Ï€-isoelectronic 1-phenylallyl and benzylallenyl resonance stabilized radicals. Chemical Science, 2011, 2, 1746.	3.7	27
66	Ground State Conformational Preferences and CH Stretchâ€"Bend Coupling in a Model Alkoxy Chain: 1,2-Diphenoxyethane. Journal of Physical Chemistry A, 2013, 117, 2800-2811.	1.1	27
67	Role of Ring-Constrained Î³-Amino Acid Residues in Î±/Î³-Peptide Folding: Single-Conformation UV and IR Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 10847-10862.	1.1	27
68	Chirped-Pulse Fourier Transform Microwave Spectroscopy Coupled with a Flash Pyrolysis Microreactor: Structural Determination of the Reactive Intermediate Cyclopentadienone. Journal of Physical Chemistry Letters, 2014, 5, 2201-2207.	2.1	27
69	Insights into the photoprotection mechanism of the UV filter homosalate. Physical Chemistry Chemical Physics, 2020, 22, 15509-15519.	1.3	26
70	Conformational Effects on Excitonic Interactions in a Prototypical H-Bonded Bichromophore: Bis(2-hydroxyphenyl)methane. Journal of Physical Chemistry A, 2009, 113, 5000-5012.	1.1	25
71	Duschinsky mixing between four non-totally symmetric normal coordinates in the S1â€"S0 vibronic structure of (E)-phenylvinylacetylene: a quantitative analysis. Physical Chemistry Chemical Physics, 2010, 12, 2331.	1.3	25
72	Conformation-Specific Spectroscopy and Populations of Diastereomers of a Model Monolignol Derivative: Chiral Effects in a Triol Chain. Journal of Physical Chemistry A, 2011, 115, 8464-8478.	1.1	25

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73	Conformation-specific spectroscopy of capped glutamine-containing peptides: role of a single glutamine residue on peptide backbone preferences. Physical Chemistry Chemical Physics, 2016, 18, 11306-11322.	1.3	25
74	Identifying the first folded alkylbenzene via ultraviolet, infrared, and Raman spectroscopy of pentylbenzene through decylbenzene. Chemical Science, 2017, 8, 5305-5318.	3.7	25
75	Fluorescence-Dip Infrared Spectroscopy of Jet-Cooled 5-Hydroxytropolone. The Journal of Physical Chemistry, 1996, 100, 16835-16842.	2.9	23
76	Conformational preferences and internal rotation of methyl butyrate by microwave spectroscopy. Journal of Molecular Spectroscopy, 2017, 337, 51-58.	0.4	23
77	Experimental and computational study of the ultraviolet photolysis of vinylacetylene. Part II.. Physical Chemistry Chemical Physics, 2006, 8, 5317.	1.3	22
78	Towards Understanding Photodegradation Pathways in Lignins: The Role of Intramolecular Hydrogen Bonding in Excited States. Journal of Physical Chemistry Letters, 2014, 5, 2138-2143.	2.1	22
79	Local and global approaches to treat the torsional barriers of 4-methylacetophenone using microwave spectroscopy. Journal of Chemical Physics, 2020, 152, 074301.	1.2	22
80	Mimicking the First Turn of an Î±-Helix with an Unnatural Backbone: Conformation-Specific IR and UV Spectroscopy of Cyclically Constrained Î²/Î³-Peptides. Journal of Physical Chemistry B, 2014, 118, 8246-8256.	1.2	21
81	Infrared Population Transfer Spectroscopy of Cryo-Cooled Ions: Quantitative Tests of the Effects of Collisional Cooling on the Room Temperature Conformer Populations. Journal of Physical Chemistry A, 2018, 122, 2096-2107.	1.1	21
82	Squeezing the Water Out of HCl(aq). Science, 2009, 324, 1522-1523.	6.0	20
83	The spectroscopic and photophysical effects of the position of methyl substitution. I. 4â€•and 5â€methylpyrimidine. Journal of Chemical Physics, 1991, 95, 2317-2335.	1.2	18
84	Spectroscopic Characterization of Structural Isomers of Naphthalene: (E)- and (Z)-Phenylvinylacetylene. Journal of Physical Chemistry A, 2008, 112, 9454-9466.	1.1	18
85	The Spectroscopy and Photophysics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>Ï€</mml:mtext></mml:math> Hydrogen-Bonded Complexes: Benzeneâ€“CHCl₃. Laser Chemistry, 1994, 13, 187-205.	0.5	17
86	Ultraviolet Photochemistry of Diacetylene with Alkynes and Alkenes:â€‰ Spectroscopic Characterization of the Products. Journal of Physical Chemistry A, 1999, 103, 1294-1299.	1.1	17
87	Conformer-specific vibronic spectroscopy and vibronic coupling in a flexible bichromophore: Bis-(4-hydroxyphenyl)methane. Journal of Chemical Physics, 2011, 134, 164312.	1.2	17
88	Jet-Cooled Spectroscopy of the Î±-Methylbenzyl Radical: Probing the State-Dependent Effects of Methyl Rocking Against a Radical Site. Journal of Physical Chemistry A, 2013, 117, 13465-13480.	1.1	17
89	Conformation-specific spectroscopy of alkyl benzyl radicals: Effects of a radical center on the CH stretch infrared spectrum of an alkyl chain. Journal of Chemical Physics, 2016, 145, 124314.	1.2	17
90	The singletâ€“triplet spectroscopy of 1,3-butadiene using cavity ring-down spectroscopy. Journal of Chemical Physics, 2002, 116, 7918-7925.	1.2	16

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91	Conformation-Specific Infrared and Ultraviolet Spectroscopy of Cold [YAPAA+H]⁺ and [YGPAA+H]⁺ Ions: A Stereochemical â€œTwistâ€•on the Î²-Hairpin Turn. Journal of the American Chemical Society, 2017, 139, 5481-5493.	6.6	16
92	Multiplexed characterization of complex gas-phase mixtures combining chirped-pulse Fourier transform microwave spectroscopy and VUV photoionization time-of-flight mass spectrometry. Review of Scientific Instruments, 2018, 89, 093101.	0.6	16
93	The Ultraviolet Photochemistry of Diacetylene with Styrene. Journal of Physical Chemistry A, 2002, 106, 5789-5796.	1.1	15
94	Spectroscopy and Photophysics of Structural Isomers of Naphthalene: Z-Phenylvinylacetylene. Journal of Physical Chemistry A, 2010, 114, 3190-3198.	1.1	15
95	Conformation-specific spectroscopy of capped, gas-phase Aib oligomers: tests of the Aib residue as a 3₁₀-helix former. Physical Chemistry Chemical Physics, 2016, 18, 25512-25527.	1.3	15
96	Inherent Conformational Preferences of Ac-Gln-Gln-NHBn: Sidechain Hydrogen Bonding Supports a Î²-Turn in the Gas Phase. Angewandte Chemie - International Edition, 2016, 55, 14618-14622.	7.2	15
97	Broadband Microwave Spectroscopy of 2-Furanyloxy Radical: Primary Pyrolysis Product of the Second-Generation Biofuel 2-Methoxyfuran. Journal of Physical Chemistry A, 2018, 122, 6879-6885.	1.1	15
98	Rotationally Resolved C₂ Symmetric Conformers of Bis-(4-hydroxyphenyl)methane: Prototypical Examples of Excitonic Coupling in the S₁ and S₂ Electronic States. Journal of Physical Chemistry A, 2011, 115, 9643-9652.	1.1	14
99	Excitonic splitting and vibronic coupling in 1,2-diphenoxyethane: Conformation-specific effects in the weak coupling limit. Journal of Chemical Physics, 2013, 138, 204313.	1.2	14
100	Ground and excited state infrared spectroscopy of jet-cooled radicals: Exploring the photophysics of trihydronaphthyl and inden-2-ylmethyl. Journal of Chemical Physics, 2014, 140, 214302.	1.2	14
101	Broadband multi-resonant strong field coherence breaking as a tool for single isomer microwave spectroscopy. Journal of Chemical Physics, 2016, 145, 114203.	1.2	14
102	Multiphoton ionization studies of C6H6â€“(CH3OH)nclusters. II. Intracluster ionâ€“molecule reactions. Journal of Chemical Physics, 1992, 96, 7259-7267.	1.2	13
103	Ultraviolet Photochemistry of Diacetylene:Â Reactions with Benzene and Tolueneâ€. Journal of Physical Chemistry A, 2000, 104, 10312-10320.	1.1	13
104	Vibronic coupling in asymmetric bichromophores: Experimental investigation of diphenylmethane-d5. Journal of Chemical Physics, 2014, 141, 064316.	1.2	13
105	Single-conformation UV and IR spectroscopy of model G-type lignin dilignols: the Î²â€“Oâ€“4 and Î²â€“Î² linkages. Chemical Science, 2014, 5, 1940.	3.7	13
106	Conformer-Specific and Diastereomer-Specific Spectroscopy of Î±Î²Î± Synthetic Foldamers: Acâ€“Alaâ^Î²_{ACHC}â€“Alaâ€“NHBn. Journal of Physical Chemistry A, 2018, 122, 3697-3710.	1.1	13
107	Solvent Effects on Vibronic Coupling in a Flexible Bichromophore: Electronic Localization and Energy Transfer induced by a Single Water Molecule. Journal of Physical Chemistry Letters, 2013, 4, 1644-1648.	2.1	12
108	Binding water to a PEG-linked flexible bichromophore: IR spectra of diphenoxyethane-(H2O)n clusters, n = 2-4. Journal of Chemical Physics, 2015, 142, 154303.	1.2	11

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109	Isomer-Specific Ultraviolet Spectroscopy ofm- andp-Divinylbenzeneâ€. Journal of Physical Chemistry A, 2007, 111, 3697-3709.	1.1	10
110	The missing NH stretch fundamental in S₁ methyl anthranilate: IR-UV double resonance experiments and local mode theory. Physical Chemistry Chemical Physics, 2020, 22, 14077-14087.	1.3	10
111	Wavepacket insights into the photoprotection mechanism of the UV filter methyl anthranilate. Nature Communications, 2018, 9, 5188.	5.8	9
112	Spectroscopic Manifestations of Indirect Vibrational State Mixing: Novel Anharmonic Effects on a Prereactive H Atom Transfer Surface. Journal of Physical Chemistry A, 2021, 125, 7318-7330.	1.1	9
113	Probing E/Z Isomerization on the C₁₀H₈ Potential Energy Surface with Ultraviolet Population Transfer Spectroscopy. Journal of the American Chemical Society, 2010, 132, 1611-1620.	6.6	8
114	Delicate Balance of Hydrogen Bonding Forces in d-Threoninol. Journal of Physical Chemistry A, 2014, 118, 7267-7273.	1.1	8
115	Solvent-mediated internal conversion in diphenoxyethane-(H2O)nclusters, n = 2-4. Journal of Chemical Physics, 2015, 142, 154304.	1.2	8
116	Conformer-specific microwave spectroscopy of 3-phenylpropionitrile by strong field coherence breaking. Journal of Molecular Spectroscopy, 2018, 349, 10-16.	0.4	8
117	Conformation-Specific Spectroscopy of Asparagine-Containing Peptides: Influence of Single and Adjacent Asn Residues on Inherent Conformational Preferences. Journal of Physical Chemistry A, 2018, 122, 8762-8775.	1.1	8
118	Broadband Microwave Spectroscopy of Prototypical Amino Alcohols and Polyamines: Competition between H-Bonded Cycles and Chains. Journal of Physical Chemistry A, 2016, 120, 55-67.	1.1	7
119	Vibronic spectroscopy of methyl anthranilate and its water complex: hydrogen atom dislocation in the excited state. Physical Chemistry Chemical Physics, 2019, 21, 21355-21369.	1.3	7
120	Structural Characterization of Phenoxy Radical with Mass-Correlated Broadband Microwave Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 2919-2923.	2.1	7
121	Alkali Cation Chelation in Cold Î²-O-4 Tetralignol Complexes. Journal of Physical Chemistry A, 2016, 120, 7152-7166.	1.1	6
122	Single-Conformation Spectroscopy of Capped Aminoisobutyric Acid Dipeptides: The Effect of C-Terminal Cap Chromophores on Conformation. Journal of Physical Chemistry A, 2019, 123, 4178-4187.	1.1	6
123	Probing Frozen Molecular Embraces. Science, 2012, 335, 668-669.	6.0	5
124	The spectroscopy and photochemistry of quinioline structural isomers: (E)- and (Z)-phenylvinylnitrile. Journal of Chemical Physics, 2015, 143, 074304.	1.2	5
125	Infrared-Enhanced Fluorescence-Gain Spectroscopy: Conformation-Specific Excited-State Infrared Spectra of Alkylbenzenes. Journal of Physical Chemistry Letters, 2017, 8, 5296-5300.	2.1	5
126	Gas-phase pyrolysis of trans 3-pentenenitrile: competition between direct and isomerization-mediated dissociation. Physical Chemistry Chemical Physics, 2021, 23, 6462-6471.	1.3	5

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127	The spectroscopic and photophysical effects of the position of methyl substitution. II. 2â€methylpyrimidine. Journal of Chemical Physics, 1992, 96, 1667-1675.	1.2	4
128	Strong-field coherence breaking as a tool for identifying methyl rotor states in microwave spectra: 2-hexanone. Journal of Chemical Physics, 2019, 151, 041104.	1.2	4
129	Coexistence of Left- and Right-Handed 12/10-Mixed Helices in Cyclically Constrained Î²-Peptides and Directed Formation of Single-Handed Helices upon Site-Specific Methylation. Journal of Physical Chemistry A, 2020, 124, 5856-5870.	1.1	4
130	Detecting combustion intermediates via broadband chirped-pulse microwave spectroscopy. Proceedings of the Combustion Institute, 2021, 38, 1761-1769.	2.4	4
131	Vibronic Spectroscopy of a Nitrile/Isonitrile Isoelectronic Pair: para-Diisocyanobenzene and para-Isocyanobenzonitrile. Journal of Physical Chemistry A, 2015, 119, 2863-2877.	1.1	3
132	The effects of site asymmetry on near-degenerate state-to-state vibronic mixing in flexible bichromophores. Journal of Chemical Physics, 2019, 151, 084313.	1.2	3
133	Broadband rotational spectroscopy oftrans3-pentenenitrile and 4-pentenenitrile. Physical Chemistry Chemical Physics, 2019, 21, 23651-23662.	1.3	3
134	Two-Color IRMPD Applied to Conformationally Complex Ions: Probing Cold Ion Structure and Hot Ion Unfolding. Journal of Physical Chemistry A, 2021, 125, 9394-9404.	1.1	3
135	Bond Length Alternation and Internal Dynamics in Model Aromatic Substituents of Lignin. ChemPhysChem, 2022, , .	1.0	3
136	Infrared and Electronic Spectroscopy of the Jet-Cooled 5-Methyl-2-furanylmethyl Radical Derived from the Biofuel 2,5-Dimethylfuran. Journal of Physical Chemistry A, 2016, 120, 6434-6443.	1.1	2
137	Single Conformation Spectroscopy of Suberoylanilide Hydroxamic Acid: A Molecule Bites Its Tail. Journal of Physical Chemistry A, 2017, 121, 986-997.	1.1	2
138	Conformational explosion: Understanding the complexity of short chain para-dialkylbenzene potential energy surfaces. Journal of Chemical Physics, 2018, 148, 184304.	1.2	2
139	The JPC Periodic Table. Journal of Physical Chemistry A, 2019, 123, 5837-5848.	1.1	2
140	The JPC Periodic Table. Journal of Physical Chemistry Letters, 2019, 10, 4051-4062.	2.1	2
141	Conformer-Specific Spectroscopy and IR-Induced Isomerization of a Model Î³-Peptide: Ac-Î³⁴-Phe-NHMe. Journal of Physical Chemistry A, 2022, 126, 1837-1847.	1.1	2
142	Inherent Conformational Preferences of Acâ€Glnâ€Glnâ€NHBn: Sidechain Hydrogen Bonding Supports a Î²â€Turn in the Gas Phase. Angewandte Chemie, 2016, 128, 14838-14842.	1.6	1
143	The JPC Periodic Table. Journal of Physical Chemistry B, 2019, 123, 5973-5984.	1.2	1
144	The JPC Periodic Table. Journal of Physical Chemistry C, 2019, 123, 17063-17074.	1.5	1

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145	Propagating molecular rotational coherences through single-frequency pulses in the strong field regime. Journal of Chemical Physics, 2019, 151, 084312.	1.2	1
146	The unusual symmetry of hexafluoro-o-xyleneâ€"A microwave spectroscopy and computational study. Journal of Chemical Physics, 2020, 152, 064302.	1.2	1
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