Timothy S Zwier

List of Publications by Citations

143 papers	5,843 citations	40 h-index	72 g-index
150 ext. papers	6,145 ext. citations	5.9 avg, IF	5.9 L-index

#	Paper	IF	Citations
143	THE SPECTROSCOPY OF SOLVATION IN HYDROGEN-BONDED AROMATIC CLUSTERS. *Annual Review of Physical Chemistry*, **1996**, 47, 205-241	15.7	446
142	Laser Spectroscopy of Jet-Cooled Biomolecules and Their Water-Containing Clusters: Water Bridges and Molecular Conformation. *Journal of Physical Chemistry A*, **2001**, 105, 8827-8839	2.8	275
141	Multiphoton ionization studies of clusters of immiscible liquids. I. C6H6(H2O)n, n=1,2. *Journal of Chemical Physics*, **1992**, 96, 3388-3401	3.9	245
140	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	3.9	192
139	Theoretical Characterization of the Structures and Vibrational Spectra of Benzene(H2O)n (n = 1−3) Clusters. *The Journal of Physical Chemistry*, **1996**, 100, 7810-7821		175
138	Conformational dynamics in a dipeptide after single-mode vibrational excitation. *Science*, **2002**, 296, 2369-73	33.3	171
137	Density Functional Theory Calculations of the Structures, Binding Energies, and Infrared Spectra of Methanol Clusters. *Journal of Physical Chemistry A*, **1998**, 102, 82-94	2.8	169
136	Direct measurement of energy thresholds to conformational isomerization in tryptamine. *Science*, **2004**, 303, 1169-73	33.3	147
135	Laser probes of conformational isomerization in flexible molecules and complexes. *Journal of Physical Chemistry A*, **2006**, 110, 4133-50	2.8	144
134	The Infrared and Ultraviolet Spectra of Individual Conformational Isomers of Biomolecules: Tryptamine. *Journal of Physical Chemistry A*, **2000**, 104, 8677-8688	2.8	123
133	Infrared and Ultraviolet Spectroscopy of Water-Containing Clusters of Indole, 1-Methylindole, and 3-Methylindole. *Journal of Physical Chemistry A*, **1999**, 103, 9943-9957	2.8	118
132	Chemistry. The structure of protonated water clusters. *Science*, **2004**, 304, 1119-20	33.3	116
131	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	3.9	115
130	Resonant ion-dip infrared spectroscopy of benzene(methanol)m clusters with m=1−5. *Journal of Chemical Physics*, **1997**, 106, 2145-2157	3.9	114
129	The hydrogen-bonding topologies of indole(water)n clusters from resonant ion-dip infrared spectroscopy. *Journal of Chemical Physics*, **1998**, 108, 3379-3382	3.9	107
128	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, 14780-95	16.4	103
127	Multiphoton ionization studies of clusters of immiscible liquids. II. C6H6(H2O)n, n=3−8 and (C6H6)2(H2O)1,2. *Journal of Chemical Physics*, **1992**, 96, 3402-3410	3.9	93

126	Electronic and Infrared Spectroscopy of Anthranilic Acid in a Supersonic Jet. *Journal of Physical Chemistry A*, **2003**, 107, 4032-4040	2.8	90
125	Laser-initiated shuttling of a water molecule between H-bonding sites. *Science*, **2005**, 307, 1443-6	33.3	90
124	Hydride stretch infrared spectra in the excited electronic states of indole and its derivatives: Direct evidence for the 1 state. *Journal of Chemical Physics*, **2003**, 118, 2696	3.9	87
123	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, 133-47	3.9	78
122	Fluorescence-dip IR spectra of jet-cooled benzoic acid dimer in its ground and first excited singlet states. *Faraday Discussions*, **2001**, 315-30; discussion 361-71	3.6	75
121	Evolution of amide stacking in larger peptides: triamide H-bonded cycles. *Journal of Physical Chemistry A*, **2011**, 115, 13783-98	2.8	73
120	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	3.9	73
119	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	3.9	67
118	CH Stretch Modes as a Probe of H-Bonding in Methanol-Containing Clusters. *Journal of Physical Chemistry A*, **1999**, 103, 496-502	2.8	58
117	The spectroscopy and dynamics of hydrogen-bonded complexes: BenzeneHCl/DCl and tolueneHCl/DCl. *Journal of Chemical Physics*, **1990**, 93, 6977-6986	3.9	58
116	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	1.9	57
115	Single-conformation ultraviolet and infrared spectroscopy of model synthetic foldamers: beta-peptides Ac-beta3-hPhe-NHMe and Ac-beta3-hTyr-NHMe. *Journal of the American Chemical Society*, **2008**, 130, 4784-94	16.4	56
114	Intramolecular amide stacking and its competition with hydrogen bonding in a small foldamer. *Journal of the American Chemical Society*, **2009**, 131, 14243-5	16.4	54
113	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	3.6	53
112	Single-conformation and diastereomer specific ultraviolet and infrared spectroscopy of model synthetic foldamers: alpha/beta-peptides. *Journal of the American Chemical Society*, **2009**, 131, 6574-90	16.4	52
111	Solvation of a Flexible Biomolecule in the Gas Phase:The Ultraviolet and Infrared Spectroscopy of MelatoninWater Clusters. *Journal of Physical Chemistry A*, **2003**, 107, 974-983	2.8	52
110	Single-conformation ultraviolet and infrared spectroscopy of model synthetic foldamers: beta-peptides Ac-beta3-hPhe-beta3-hAla-NHMe and Ac-beta3-hAla-beta3-hPhe-NHMe. *Journal of the American Chemical Society*, **2008**, 130, 4795-807	16.4	51
109	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, 5596-7	16.4	50

108	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, 17186-201	16.4	48
107	Infrared and Ultraviolet Spectroscopy of Jet-Cooled ortho-, meta-, and para-Diethynylbenzene *Journal of Physical Chemistry A*, **2003**, 107, 10717-10724	2.8	48
106	Multiphoton ionization studies of C6H6(CH3OH)n clusters. I. Comparisons with C6H6(H2O)n clusters. *Journal of Chemical Physics*, **1992**, 96, 7245-7258	3.9	47
105	Infrared and ultraviolet spectral signatures and conformational preferences of jet-cooled serotonin. *Journal of the American Chemical Society*, **2007**, 129, 4028-38	16.4	45
104	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	3.9	41
103	Competition between amide stacking and intramolecular H bonds in peptide derivatives: controlling nearest-neighbor preferences. *Journal of Physical Chemistry A*, **2011**, 115, 11960-70	2.8	39
102	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	3.9	39
101	Mode-selective photoisomerization in 5-hydroxytropolone. I. Experiment. *Journal of Chemical Physics*, **1995**, 102, 5246-5259	3.9	39
100	Aromatic Ring-Forming Reactions of Metastable Diacetylene with 1,3-Butadiene. *Journal of Physical Chemistry A*, **1998**, 102, 3315-3322	2.8	38
99	UV and IR spectroscopy of cold protonated leucine enkephalin. *International Journal of Mass Spectrometry*, **2015**, 378, 196-205	1.9	37
98	Ultraviolet spectroscopy of fundamental lignin subunits: guaiacol, 4-methylguaiacol, syringol, and 4-methylsyringol. *Journal of Chemical Physics*, **2013**, 139, 144313	3.9	37
97	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	3.9	36
96	State-specific studies of internal mixing in a prototypical flexible bichromophore: Diphenylmethane. *Journal of Chemical Physics*, **2008**, 129, 114301	3.9	36
95	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, 148-57	3.9	36
94	Infrared-induced conformational isomerization and vibrational relaxation dynamics in melatonin and 5-methoxy-N-acetyl tryptophan methyl amide. *Journal of Chemical Physics*, **2004**, 120, 9033-46	3.9	33
93	Fermi resonance effects in the vibrational spectroscopy of methyl and methoxy groups. *Journal of Physical Chemistry A*, **2014**, 118, 11272-81	2.8	32
92	Laser spectroscopy of conformationally constrained alpha/beta-peptides: Ac-ACPC-Phe-NHMe and Ac-Phe-ACPC-NHMe. *Journal of Physical Chemistry A*, **2010**, 114, 1581-91	2.8	32
91	Single-conformation spectroscopy and population analysis of model peptides: new tests of amide stacking. *Faraday Discussions*, **2011**, 150, 209-26; discussion 257-92	3.6	31

90	Photochemical and discharge-driven pathways to aromatic products from 1,3-butadiene. *Journal of Physical Chemistry A*, **2007**, 111, 10914-27	2.8	30
89	Isomer-Specific Spectroscopy of Benzene-(H2O)n, n = 6,7: Benzene's Role in Reshaping Water's Three-Dimensional Networks. *Journal of Physical Chemistry Letters*, **2015**, 6, 1989-95	6.4	29
88	Rotationally resolved studies of S0 and the exciton coupled S1/S2 origin regions of diphenylmethane and the d(12) isotopologue. *Journal of Chemical Physics*, **2008**, 129, 224305	3.9	28
87	Gas-Phase Folding of a Prototypical Protonated Pentapeptide: Spectroscopic Evidence for Formation of a Charge-Stabilized Hairpin. *Journal of the American Chemical Society*, **2016**, 138, 2849-57	16.4	26
86	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, 8236-45	3.4	26
85	Cyclic constraints on conformational flexibility in peptides: conformation specific IR and UV spectroscopy. *Journal of Physical Chemistry A*, **2013**, 117, 12350-62	2.8	26
84	Role of ring-constrained amino acid residues in peptide folding: single-conformation UV and IR spectroscopy. *Journal of Physical Chemistry A*, **2013**, 117, 10847-62	2.8	26
83	Spectroscopy and ionization thresholds of isoelectronic 1-phenylallyl and benzylallenyl resonance stabilized radicals. *Chemical Science*, **2011**, 2, 1746	9.4	26
82	The Spectroscopic Consequences of CH···H-Bonding: C6H6(C4H2)n Clusters with n = 1 and 2. *Journal of Physical Chemistry A*, **2003**, 107, 10280-10287	2.8	26
81	Resonant Ion-Dip Infrared Spectroscopy of Ternary Benzene(Water)n(Methanol)m Hydrogen-Bonded Clusters. *Journal of Physical Chemistry A*, **1999**, 103, 503-513	2.8	26
80	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, 8464-78	2.8	25
79	Conformational effects on excitonic interactions in a prototypical H-bonded bichromophore: bis(2-hydroxyphenyl)methane. *Journal of Physical Chemistry A*, **2009**, 113, 5000-12	2.8	25
78	Local Mode Approach to OH Stretch Spectra of Benzene-(H2O)n Clusters, n = 2-7. *Journal of Physical Chemistry A*, **2015**, 119, 9917-30	2.8	24
77	Duschinsky mixing between four non-totally symmetric normal coordinates in the S(1)-S(0) vibronic structure of (E)-phenylvinylacetylene: a quantitative analysis. *Physical Chemistry Chemical Physics*, **2010**, 12, 2331-43	3.6	24
76	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, 2201-7	6.4	23
75	Vibronically state-selective photoisomerization in 5-hydroxytropolone. *Journal of Chemical Physics*, **1993**, 99, 8341-8344	3.9	23
74	Anharmonic modeling of the conformation-specific IR spectra of ethyl, n-propyl, and n-butylbenzene. *Journal of Chemical Physics*, **2016**, 144, 224310	3.9	23
73	Ground state conformational preferences and CH stretch-bend coupling in a model alkoxy chain: 1,2-diphenoxyethane. *Journal of Physical Chemistry A*, **2013**, 117, 2800-11	2.8	22

72	Mimicking the first turn of an α-helix with an unnatural backbone: conformation-specific IR and UV spectroscopy of cyclically constrained β-peptides. *Journal of Physical Chemistry B*, **2014**, 118, 8246-56	3.4	21
71	Experimental and computational study of the ultraviolet photolysis of vinylacetylene. Part II. *Physical Chemistry Chemical Physics*, **2006**, 8, 5317-27	3.6	21
70	Conformation-specific spectroscopy of capped glutamine-containing peptides: role of a single glutamine residue on peptide backbone preferences. *Physical Chemistry Chemical Physics*, **2016**, 18, 11306-22	3.6	20
69	Chemistry. Squeezing the water out of HCl(aq). *Science*, **2009**, 324, 1522-3	33.3	20
68	Fluorescence-Dip Infrared Spectroscopy of Jet-Cooled 5-Hydroxytropolone. *The Journal of Physical Chemistry*, **1996**, 100, 16835-16842		20
67	Towards Understanding Photodegradation Pathways in Lignins: The Role of Intramolecular Hydrogen Bonding in Excited States. *Journal of Physical Chemistry Letters*, **2014**, 5, 2138-43	6.4	19
66	Conformational preferences and internal rotation of methyl butyrate by microwave spectroscopy. *Journal of Molecular Spectroscopy*, **2017**, 337, 51-58	1.3	18
65	Spectroscopic characterization of structural isomers of naphthalene: (E)- and (Z)-phenylvinylacetylene. *Journal of Physical Chemistry A*, **2008**, 112, 9454-66	2.8	18
64	Identifying the first folded alkylbenzene ultraviolet, infrared, and Raman spectroscopy of pentylbenzene through decylbenzene. *Chemical Science*, **2017**, 8, 5305-5318	9.4	17
63	Conformer-specific vibronic spectroscopy and vibronic coupling in a flexible bichromophore: bis-(4-hydroxyphenyl)methane. *Journal of Chemical Physics*, **2011**, 134, 164312	3.9	17
62	The Spectroscopy and Photophysics of π-Hydrogen-Bonded Complexes: Benzene·CHCl3. *Laser Chemistry*, **1994**, 13, 187-205		17
61	Jet-cooled spectroscopy of the α-methylbenzyl radical: probing the state-dependent effects of methyl rocking against a radical site. *Journal of Physical Chemistry A*, **2013**, 117, 13465-80	2.8	16
60	. *Journal of Physical Chemistry A*, **1999**, 103, 1294-1299	2.8	16
59	Spectroscopy and photophysics of structural isomers of naphthalene: Z-phenylvinylacetylene. *Journal of Physical Chemistry A*, **2010**, 114, 3190-8	2.8	15
58	Local and global approaches to treat the torsional barriers of 4-methylacetophenone using microwave spectroscopy. *Journal of Chemical Physics*, **2020**, 152, 074301	3.9	14
57	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	2.8	14
56	The singlet–triplet spectroscopy of 1,3-butadiene using cavity ring-down spectroscopy. *Journal of Chemical Physics*, **2002**, 116, 7918-7925	3.9	14
55	The Ultraviolet Photochemistry of Diacetylene with Styrene. *Journal of Physical Chemistry A*, **2002**, 106, 5789-5796	2.8	14

54	The spectroscopic and photophysical effects of the position of methyl substitution. I. 4- and 5-methylpyrimidine. *Journal of Chemical Physics*, **1991**, 95, 2317-2335	3.9	14
53	Excitonic splitting and vibronic coupling in 1,2-diphenoxyethane: conformation-specific effects in the weak coupling limit. *Journal of Chemical Physics*, **2013**, 138, 204313	3.9	13
52	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, 9643-52	2.8	13
51	Multiphoton ionization studies of C6H6(CH3OH)n clusters. II. Intracluster ion–molecule reactions. *Journal of Chemical Physics*, **1992**, 96, 7259-7267	3.9	13
50	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	1.7	13
49	Conformation-Specific Infrared and Ultraviolet Spectroscopy of Cold [YAPAA+H] and [YGPAA+H] Ions: A Stereochemical "Twist" on the β-Hairpin Turn. *Journal of the American Chemical Society*, **2017**, 139, 5481-5493	16.4	12
48	Inherent Conformational Preferences of Ac-Gln-Gln-NHBn: Sidechain Hydrogen Bonding Supports a β-Turn in the Gas Phase. *Angewandte Chemie - International Edition*, **2016**, 55, 14618-14622	16.4	12
47	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	2.8	12
46	Vibronic coupling in asymmetric bichromophores: experimental investigation of diphenylmethane-d0. *Journal of Chemical Physics*, **2014**, 141, 064316	3.9	12
45	Broadband multi-resonant strong field coherence breaking as a tool for single isomer microwave spectroscopy. *Journal of Chemical Physics*, **2016**, 145, 114203	3.9	12
44	Insights into the photoprotection mechanism of the UV filter homosalate. *Physical Chemistry Chemical Physics*, **2020**, 22, 15509-15519	3.6	11
43	Conformer-Specific and Diastereomer-Specific Spectroscopy of β-Synthetic Foldamers: Ac-Ala-βAla-NHBn. *Journal of Physical Chemistry A*, **2018**, 122, 3697-3710	2.8	11
42	Single-conformation UV and IR spectroscopy of model G-type lignin dilignols: the β-O-4 and β-5 linkages. *Chemical Science*, **2014**, 5, 1940	9.4	11
41	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	3.9	11
40	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, 1644-8	6.4	11
39	Ultraviolet Photochemistry of Diacetylene: Reactions with Benzene and Toluene. *Journal of Physical Chemistry A*, **2000**, 104, 10312-10320	2.8	11
38	Conformation-specific spectroscopy of capped, gas-phase Aib oligomers: tests of the Aib residue as a 3-helix former. *Physical Chemistry Chemical Physics*, **2016**, 18, 25512-25527	3.6	11
37	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	3.9	10

36	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	3.9	10
35	Isomer-specific ultraviolet spectroscopy of m- and p-divinylbenzene. *Journal of Physical Chemistry A*, **2007**, 111, 3697-709	2.8	9
34	The missing NH stretch fundamental in S methyl anthranilate: IR-UV double resonance experiments and local mode theory. *Physical Chemistry Chemical Physics*, **2020**, 22, 14077-14087	3.6	8
33	Probing E/Z isomerization on the C10H8 potential energy surface with ultraviolet population transfer spectroscopy. *Journal of the American Chemical Society*, **2010**, 132, 1611-20	16.4	8
32	Solvent-mediated internal conversion in diphenoxyethane-(H□)n clusters, n = 2-4. *Journal of Chemical Physics*, **2015**, 142, 154304	3.9	7
31	Conformer-specific microwave spectroscopy of 3-phenylpropionitrile by strong field coherence breaking. *Journal of Molecular Spectroscopy*, **2018**, 349, 10-16	1.3	7
30	Structural Characterization of Phenoxy Radical with Mass-Correlated Broadband Microwave Spectroscopy. *Journal of Physical Chemistry Letters*, **2019**, 10, 2919-2923	6.4	6
29	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	2.8	6
28	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	2.8	6
27	Delicate balance of hydrogen bonding forces in D-threoninol. *Journal of Physical Chemistry A*, **2014**, 118, 7267-73	2.8	6
26	Wavepacket insights into the photoprotection mechanism of the UV filter methyl anthranilate. *Nature Communications*, **2018**, 9, 5188	17.4	6
25	The spectroscopy and photochemistry of quinioline structural isomers: (E)- and (Z)-phenylvinylnitrile. *Journal of Chemical Physics*, **2015**, 143, 074304	3.9	5
24	Chemistry. Probing frozen molecular embraces. *Science*, **2012**, 335, 668-9	33.3	5
23	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	2.8	5
22	Vibronic spectroscopy of methyl anthranilate and its water complex: hydrogen atom dislocation in the excited state. *Physical Chemistry Chemical Physics*, **2019**, 21, 21355-21369	3.6	4
21	Gas-phase pyrolysis of trans 3-pentenenitrile: competition between direct and isomerization-mediated dissociation. *Physical Chemistry Chemical Physics*, **2021**, 23, 6462-6471	3.6	4
20	Coexistence of Left- and Right-Handed 12/10-Mixed Helices in Cyclically Constrained β-Peptides and Directed Formation of Single-Handed Helices upon Site-Specific Methylation. *Journal of Physical Chemistry A*, **2020**, 124, 5856-5870	2.8	3
19	Alkali Cation Chelation in Cold β-O-4 Tetralignol Complexes. *Journal of Physical Chemistry A*, **2016**, 120, 7152-66	2.8	3

18	Strong-field coherence breaking as a tool for identifying methyl rotor states in microwave spectra: 2-hexanone. *Journal of Chemical Physics*, **2019**, 151, 041104	3.9	3
17	The spectroscopic and photophysical effects of the position of methyl substitution. II. 2-methylpyrimidine. *Journal of Chemical Physics*, **1992**, 96, 1667-1675	3.9	3
16	Broadband rotational spectroscopy of trans 3-pentenenitrile and 4-pentenenitrile. *Physical Chemistry Chemical Physics*, **2019**, 21, 23651-23662	3.6	3
15	Single Conformation Spectroscopy of Suberoylanilide Hydroxamic Acid: A Molecule Bites Its Tail. *Journal of Physical Chemistry A*, **2017**, 121, 986-997	2.8	2
14	Infrared-Enhanced Fluorescence-Gain Spectroscopy: Conformation-Specific Excited-State Infrared Spectra of Alkylbenzenes. *Journal of Physical Chemistry Letters*, **2017**, 8, 5296-5300	6.4	2
13	Vibronic spectroscopy of a nitrile/isonitrile isoelectronic pair: para-diisocyanobenzene and para-isocyanobenzonitrile. *Journal of Physical Chemistry A*, **2015**, 119, 2863-77	2.8	2
12	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, 6434-43	2.8	2
11	Detecting combustion intermediates via broadband chirped-pulse microwave spectroscopy. *Proceedings of the Combustion Institute*, **2021**, 38, 1761-1769	5.9	2
10	Conformational explosion: Understanding the complexity of short chain para-dialkylbenzene potential energy surfaces. *Journal of Chemical Physics*, **2018**, 148, 184304	3.9	2
9	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	2.8	2
8	The unusual symmetry of hexafluoro-o-xylene-A microwave spectroscopy and computational study. *Journal of Chemical Physics*, **2020**, 152, 064302	3.9	1
7	The Periodic Table. *Journal of Physical Chemistry A*, **2019**, 123, 5837-5848	2.8	1
6	The JPC Periodic Table. *Journal of Physical Chemistry C*, **2019**, 123, 17063-17074	3.8	1
5	The JPC Periodic Table. *Journal of Physical Chemistry Letters*, **2019**, 10, 4051-4062	6.4	1
4	Propagating molecular rotational coherences through single-frequency pulses in the strong field regime. *Journal of Chemical Physics*, **2019**, 151, 084312	3.9	1
3	The effects of site asymmetry on near-degenerate state-to-state vibronic mixing in flexible bichromophores. *Journal of Chemical Physics*, **2019**, 151, 084313	3.9	1
2	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	2.8	1
1	Inherent Conformational Preferences of Ac-Gln-Gln-NHBn: Sidechain Hydrogen Bonding Supports a β-Turn in the Gas Phase. *Angewandte Chemie*, **2016**, 128, 14838-14842	3.6	1