

# Andrei Tokmakoff

## List of Publications by Year in descending order

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133  
papers

8,516  
citations

39113

52  
h-index

56606

87  
g-index

139  
all docs

139  
docs citations

139  
times ranked

6276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amide I Two-Dimensional Infrared Spectroscopy of Proteins. <i>Accounts of Chemical Research</i> , 2008, 41, 432-441.	7.6	427
2	Local hydrogen bonding dynamics and collective reorganization in water: Ultrafast infrared spectroscopy of HOD/D <sub>2</sub> O. <i>Journal of Chemical Physics</i> , 2005, 122, 054506.	1.2	295
3	Characterization of spectral diffusion from two-dimensional line shapes. <i>Journal of Chemical Physics</i> , 2006, 125, 084502.	1.2	270
4	Two-Dimensional Infrared Spectroscopy of Antiparallel $\beta$ -Sheet Secondary Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 7981-7990.	6.6	267
5	Ultrafast 2D IR spectroscopy of the excess proton in liquid water. <i>Science</i> , 2015, 350, 78-82.	6.0	264
6	Water vibrations have strongly mixed intra- and intermolecular character. <i>Nature Chemistry</i> , 2013, 5, 935-940.	6.6	236
7	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , 2020, 120, 7152-7218.	23.0	205
8	Two-dimensional Fourier transform spectroscopy in the pump-probe geometry. <i>Optics Letters</i> , 2007, 32, 2966.	1.7	191
9	Multidimensional infrared spectroscopy of water. I. Vibrational dynamics in two-dimensional IR line shapes. <i>Journal of Chemical Physics</i> , 2006, 125, 194521.	1.2	180
10	Structural Rearrangements in Water Viewed Through Two-Dimensional Infrared Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1239-1249.	7.6	177
11	Multidimensional infrared spectroscopy of water. II. Hydrogen bond switching dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 194522.	1.2	175
12	Transient 2D IR spectroscopy of ubiquitin unfolding dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14237-14242.	3.3	164
13	Source for ultrafast continuum infrared and terahertz radiation. <i>Optics Letters</i> , 2010, 35, 1962.	1.7	158
14	From The Cover: Conformational changes during the nanosecond-to-millisecond unfolding of ubiquitin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 612-617.	3.3	150
15	Electric Field Fluctuations Drive Vibrational Dephasing in Water. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9424-9436.	1.1	150
16	Amide I $\beta$ -Sheet 2D IR Spectroscopy Provides Enhanced Protein Secondary Structural Sensitivity. <i>Journal of the American Chemical Society</i> , 2009, 131, 3385-3391.	6.6	141
17	Signatures of $\beta$ -sheet secondary structures in linear and two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 8201-8215.	1.2	139
18	Two-Dimensional Line Shapes Derived from Coherent Third-Order Nonlinear Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4247-4255.	1.1	134

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19	The Anharmonic Vibrational Potential and Relaxation Pathways of the Amide I and II Modes of N-Methylacetamide. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18973-18980.	1.2	123
20	Crossover from hydrogen to chemical bonding. <i>Science</i> , 2021, 371, 160-164.	6.0	123
21	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15154-15159.	3.3	111
22	Anharmonic Vibrational Modes of Nucleic Acid Bases Revealed by 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 15650-15660.	6.6	108
23	Broadband 2D IR spectroscopy reveals dominant asymmetric H <sub>5</sub> O <sub>2</sub> <sup>+</sup> proton hydration structures in acid solutions. <i>Nature Chemistry</i> , 2018, 10, 932-937.	6.6	105
24	Robust excitons inhabit soft supramolecular nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3367-75.	3.3	100
25	Melting of a $\beta$ -Hairpin Peptide Using Isotope-Edited 2D IR Spectroscopy and Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10913-10924.	1.2	97
26	Computational Amide I 2D IR Spectroscopy as a Probe of Protein Structure and Dynamics. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 359-386.	4.8	93
27	Collective Hydrogen Bond Reorganization in Water Studied with Temperature-Dependent Ultrafast Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5604-5616.	1.2	92
28	Spectral Signatures of Heterogeneous Protein Ensembles Revealed by MD Simulations of 2DIR Spectra. <i>Biophysical Journal</i> , 2006, 91, 2636-2646.	0.2	91
29	Hydrogen Bond Rearrangements in Water Probed with Temperature-Dependent 2D IR. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1068-1072.	2.1	89
30	Electrostatic frequency shifts in amide I vibrational spectra: Direct parameterization against experiment. <i>Journal of Chemical Physics</i> , 2013, 138, 134116.	1.2	87
31	Nonlinear Infrared Spectroscopy of Protein Conformational Change during Thermal Unfolding. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15332-15342.	1.2	83
32	Polarizable molecules in the vibrational spectroscopy of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11611-11616.	3.3	77
33	Structural information from two-dimensional fifth-order Raman spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 111, 492-503.	1.2	73
34	Insulin dimer dissociation and unfolding revealed by amide I two-dimensional infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3579-3588.	1.3	71
35	Folding of a heterogeneous $\beta$ -hairpin peptide from temperature-jump 2D IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2828-2833.	3.3	71
36	Variation of the transition dipole moment across the OH stretching band of water. <i>Chemical Physics</i> , 2007, 341, 218-229.	0.9	70

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37	Ultrafast 2D IR microscopy. <i>Optics Express</i> , 2014, 22, 18724.	1.7	69
38	Differences in the Vibrational Dynamics of H <sub>2</sub> O and D <sub>2</sub> O: Observation of Symmetric and Antisymmetric Stretching Vibrations in Heavy Water. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1769-1774.	2.1	68
39	Role of Presolvation and Anharmonicity in Aqueous Phase Hydrated Proton Solvation and Transport. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1793-1804.	1.2	68
40	Interplay of Ion-Water and Water-Water Interactions within the Hydration Shells of Nitrate and Carbonate Directly Probed with 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 9634-9645.	6.6	67
41	Transient two-dimensional IR spectrometer for probing nanosecond temperature-jump kinetics. <i>Review of Scientific Instruments</i> , 2007, 78, 063101.	0.6	66
42	Experimental Evidence of Fermi Resonances in Isotopically Dilute Water from Ultrafast Broadband IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15319-15327.	1.2	66
43	Sequence-Dependent Mechanism of DNA Oligonucleotide Dehybridization Resolved through Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 11792-11801.	6.6	66
44	Coherent two-dimensional infrared spectroscopy: Quantitative analysis of protein secondary structure in solution. <i>Analyst</i> , 2012, 137, 1793.	1.7	65
45	IR spectral assignments for the hydrated excess proton in liquid water. <i>Journal of Chemical Physics</i> , 2017, 146, 154507.	1.2	61
46	Residual Native Structure in a Thermally Denatured $\hat{I}^2$ -Hairpin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17025-17027.	1.2	60
47	Intrinsic optical heterodyne detection of a two-dimensional fifth order Raman response. <i>Chemical Physics Letters</i> , 1997, 272, 48-54.	1.2	58
48	Solvent and conformation dependence of amide I vibrations in peptides and proteins containing proline. <i>Journal of Chemical Physics</i> , 2011, 135, 234507.	1.2	58
49	Shining Light on the Rapidly Evolving Structure of Water. <i>Science</i> , 2007, 317, 54-55.	6.0	57
50	Two-dimensional line-shape analysis of photon-echo signal. <i>Chemical Physics Letters</i> , 1999, 314, 488-495.	1.2	56
51	Weakened N3 Hydrogen Bonding by 5-Formylcytosine and 5-Carboxylcytosine Reduces Their Base-Pairing Stability. <i>ACS Chemical Biology</i> , 2016, 11, 470-477.	1.6	56
52	Probing Local Structural Events in $\hat{I}^2$ -Hairpin Unfolding with Transient Nonlinear Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7984-7987.	7.2	53
53	Collective vibrations of water-solvated hydroxide ions investigated with broadband 2DIR spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 204508.	1.2	53
54	Water Penetration into Protein Secondary Structure Revealed by Hydrogen- <sup>2</sup> Deuterium Exchange Two-Dimensional Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 16520-16521.	6.6	52

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55	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4501-4513.	1.2	52
56	Anharmonic exciton dynamics and energy dissipation in liquid water from two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 145, 094501.	1.2	51
57	Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , 2017, 147, 084503.	1.2	51
58	Direct observation of ground-state lactam $\rightleftharpoons$ lactim tautomerization using temperature-jump transient 2D IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9243-9248.	3.3	50
59	Direct observation of intermolecular interactions mediated by hydrogen bonding. <i>Journal of Chemical Physics</i> , 2014, 141, 034502.	1.2	50
60	Visualization and Characterization of the Infrared Active Amide I Vibrations of Proteins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2888-2898.	1.2	49
61	Identifying Residual Structure in Intrinsically Disordered Systems: A 2D IR Spectroscopic Study of the CVCXPCVG Peptide. <i>Journal of the American Chemical Society</i> , 2012, 134, 5032-5035.	6.6	48
62	A Molecular Interpretation of 2D IR Protein Folding Experiments with Markov State Models. <i>Biophysical Journal</i> , 2014, 106, 1359-1370.	0.2	48
63	Polarization-selective femtosecond Raman spectroscopy of low-frequency motions in hydrated protein films. <i>Chemical Physics Letters</i> , 2003, 376, 20-25.	1.2	46
64	Proton Transfer in Concentrated Aqueous Hydroxide Visualized Using Ultrafast Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3957-3972.	1.1	45
65	Water or Anion? Uncovering the Zn <sup>2+</sup> Solvation Environment in Mixed Zn(TFSI) <sub>2</sub> and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 3458-3463.	8.8	45
66	Picosecond Proton Transfer Kinetics in Water Revealed with Ultrafast IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2792-2802.	1.2	44
67	Signatures of Ion Pairing and Aggregation in the Vibrational Spectroscopy of Super-Concentrated Aqueous Lithium Bistriflimide Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3470-3481.	1.5	44
68	Tautomerism provides a molecular explanation for the mutagenic properties of the anti-HIV nucleoside 5-aza-5,6-dihydro-2'-deoxycytidine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3252-E3259.	3.3	43
69	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. <i>Chemical Reviews</i> , 2021, 121, 9450-9501.	23.0	43
70	Studying Protein $\rightleftharpoons$ Protein Binding through T-Jump Induced Dissociation: Transient 2D IR Spectroscopy of Insulin Dimer. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5134-5145.	1.2	42
71	Direct Observation of Activated Kinetics and Downhill Dynamics in DNA Dehybridization. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3088-3100.	1.2	40
72	Ultrafast N <sup>15</sup> H Vibrational Dynamics of Cyclic Doubly Hydrogen-Bonded Homo- and Heterodimers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13167-13171.	1.2	36

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73	Heterodyne-Detected Dispersed Vibrational Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14060-14066.	1.1	35
74	Insulin Dissociates by Diverse Mechanisms of Coupled Unfolding and Unbinding. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5571-5587.	1.2	35
75	Structural Characterization of Protonated Water Clusters Confined in HZSM-5 Zeolites. <i>Journal of the American Chemical Society</i> , 2021, 143, 10203-10213.	6.6	35
76	Identification of Lactam-Lactim Tautomers of Aromatic Heterocycles in Aqueous Solution Using 2D IR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3302-3306.	2.1	34
77	Single-stage MHz mid-IR OPA using LiGaS <sub>2</sub> and a fiber laser pump source. <i>Optics Letters</i> , 2018, 43, 1363.	1.7	34
78	Single-shot two-dimensional infrared spectroscopy. <i>Optics Express</i> , 2007, 15, 233.	1.7	33
79	Upconversion multichannel infrared spectrometer. <i>Optics Letters</i> , 2005, 30, 1818.	1.7	32
80	Temperature-dependent downhill unfolding of ubiquitin. I. Nanosecond-to-millisecond resolved nonlinear infrared spectroscopy. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 474-487.	1.5	32
81	Vibrational excitons in ionophores: experimental probes for quantum coherence-assisted ion transport and selectivity in ion channels. <i>New Journal of Physics</i> , 2011, 13, 113030.	1.2	32
82	Ultrafast Fluctuations of High Amplitude Electric Fields in Lipid Membranes. <i>Journal of the American Chemical Society</i> , 2017, 139, 4743-4752.	6.6	30
83	Length-Dependent Melting Kinetics of Short DNA Oligonucleotides Using Temperature-Jump IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 756-767.	1.2	30
84	Dynamic and Programmable Cellular-Scale Granules Enable Tissue-like Materials. <i>Matter</i> , 2020, 2, 948-964.	5.0	30
85	Determining Sequence-Dependent DNA Oligonucleotide Hybridization and Dehybridization Mechanisms Using Coarse-Grained Molecular Simulation, Markov State Models, and Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 17395-17411.	6.6	30
86	Amide I Two-Dimensional Infrared Spectroscopy: Methods for Visualizing the Vibrational Structure of Large Proteins. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5955-5961.	1.1	29
87	Direct Observation of Multiple Tautomers of Oxythiamine and their Recognition by the Thiamine Pyrophosphate Riboswitch. <i>ACS Chemical Biology</i> , 2014, 9, 227-236.	1.6	27
88	Communication: Quantitative multi-site frequency maps for amide I vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 061102.	1.2	27
89	Transient two-dimensional spectroscopy with linear absorption corrections applied to temperature-jump two-dimensional infrared. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 118.	0.9	26
90	Vibrational dynamics of aqueous hydroxide solutions probed using broadband 2DIR spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 194501.	1.2	26

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91	Visualizing KcsA Conformational Changes upon Ion Binding by Infrared Spectroscopy and Atomistic Modeling. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5824-5831.	1.2	25
92	DNA minor-groove binder Hoechst 33258 destabilizes base-pairing adjacent to its binding site. <i>Communications Biology</i> , 2020, 3, 525.	2.0	25
93	Fluorescence-Encoded Infrared Vibrational Spectroscopy with Single-Molecule Sensitivity. <i>Journal of the American Chemical Society</i> , 2021, 143, 3060-3064.	6.6	25
94	Preface: Special Topic on Biological Water. <i>Journal of Chemical Physics</i> , 2014, 141, 22D101.	1.2	24
95	Structural Disorder of Folded Proteins: Isotope-Edited 2D IR Spectroscopy and Markov State Modeling. <i>Biophysical Journal</i> , 2015, 108, 1747-1757.	0.2	23
96	High-Level VSCF/VCI Calculations Decode the Vibrational Spectrum of the Aqueous Proton. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7214-7224.	1.2	23
97	The dynamics of peptide-water interactions in dialanine: An ultrafast amide I 2D IR and computational spectroscopy study. <i>Journal of Chemical Physics</i> , 2017, 147, 085101.	1.2	22
98	A fast-scanning Fourier transform 2D IR interferometer. <i>Optics Communications</i> , 2011, 284, 1062-1066.	1.0	21
99	Time-resolved measurements of an ion channel conformational change driven by a membrane phase transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10840-10845.	3.3	21
100	Decoding the 2D IR spectrum of the aqueous proton with high-level VSCF/VCI calculations. <i>Journal of Chemical Physics</i> , 2020, 153, 124506.	1.2	20
101	Efficient Total Chemical Synthesis of <sup>13</sup> C= <sup>18</sup> O Isotopomers of Human Insulin for Isotope-Edited FTIR. <i>ChemBioChem</i> , 2016, 17, 415-420.	1.3	19
102	Molecular modeling and assignment of IR spectra of the hydrated excess proton in isotopically dilute water. <i>Journal of Chemical Physics</i> , 2016, 145, 154504.	1.2	19
103	Refining Disordered Peptide Ensembles with Computational Amide I Spectroscopy: Application to Elastin-Like Peptides. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11395-11404.	1.2	19
104	Fluorescence-Encoded Infrared Spectroscopy: Ultrafast Vibrational Spectroscopy on Small Ensembles of Molecules in Solution. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1967-1972.	2.1	19
105	Temperature-dependent downhill unfolding of ubiquitin. II. Modeling the free energy surface. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 488-497.	1.5	18
106	Crystallization of Enantiomerically Pure Proteins from Quasi-Racemic Mixtures: Structure Determination by X-Ray Diffraction of Isotope-Labeled Ester Insulin and Human Insulin. <i>ChemBioChem</i> , 2016, 17, 421-425.	1.3	18
107	Exchange-Mediated Transport in Battery Electrolytes: Ultrafast or Ultraslow?. <i>Journal of the American Chemical Society</i> , 2022, 144, 8591-8604.	6.6	18
108	Isotope-enriched protein standards for computational amide I spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 125104.	1.2	17

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109	Two-Photon-Excited Fluorescence-Encoded Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9178-9187.	1.1	17
110	Two-dimensional IR spectroscopy of the anti-HIV agent KP1212 reveals protonated and neutral tautomers that influence pH-dependent mutagenicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3229-3234.	3.3	16
111	Fourier Transform Fluorescence-Encoded Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 554-562.	1.1	16
112	Refinement of Peptide Conformational Ensembles by 2D IR Spectroscopy: Application to Alaâ€'Alaâ€'Ala. <i>Biophysical Journal</i> , 2018, 114, 2820-2832.	0.2	16
113	Oxidized Derivatives of 5-Methylcytosine Alter the Stability and Dehybridization Dynamics of Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1160-1174.	1.2	16
114	Single-shot two-dimensional spectrometer. <i>Optics Letters</i> , 2006, 31, 113.	1.7	15
115	Characterization of Acetonitrile Isotopologues as Vibrational Probes of Electrolytes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 278-291.	1.2	15
116	Computational IR Spectroscopy of Insulin Dimer Structure and Conformational Heterogeneity. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4620-4633.	1.2	14
117	Entropic barriers in the kinetics of aqueous proton transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034501.	1.2	13
118	Vibrational Probe of Aqueous Electrolytes: The Field Is Not Enough. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7013-7026.	1.2	13
119	Local and Collective Reaction Coordinates in the Transport of the Aqueous Hydroxide Ion. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8062-8069.	1.2	12
120	Direct Observation of Ion Pairing in Aqueous Nitric Acid Using 2D Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 225-238.	1.2	12
121	5-Carboxylcytosine and Cytosine Protonation Distinctly Alter the Stability and Dehybridization Dynamics of the DNA Duplex. <i>Journal of Physical Chemistry B</i> , 2020, 124, 627-640.	1.2	11
122	Temperature-Jump 2D IR Spectroscopy with Intensity-Modulated CW Optical Heating. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8665-8677.	1.2	11
123	Distinguishing gramicidin D conformers through two-dimensional infrared spectroscopy of vibrational excitons. <i>Journal of Chemical Physics</i> , 2015, 142, 212424.	1.2	10
124	Investigation into the mechanism and dynamics of DNA association and dissociation utilizing kinetic Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 045101.	1.2	9
125	From Networked to Isolated: Observing Water Hydrogen Bonds in Concentrated Electrolytes with Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5305-5319.	1.2	9
126	Resonance conditions, detection quality, and single-molecule sensitivity in fluorescence-encoded infrared vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 174202.	1.2	8



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127	Infrared spectroscopy of tritiated water. <i>Chemical Physics Letters</i> , 2007, 449, 130-134.	1.2	7
128	A lattice model for the interpretation of oligonucleotide hybridization experiments. <i>Journal of Chemical Physics</i> , 2019, 150, 185104.	1.2	6
129	A phenomenological approach to modeling chemical dynamics in nonlinear and two-dimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 134507.	1.2	5
130	Revealing the Dynamical Role of Co-solvents in the Coupled Folding and Dimerization of Insulin. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4353-4358.	2.1	5
131	Structural Ensemble of the Insulin Monomer. <i>Biochemistry</i> , 2021, 60, 3125-3136.	1.2	5
132	Lineshape Distortions in Internal Reflection Two-Dimensional Infrared Spectroscopy: Tuning across the Critical Angle. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11843-11849.	2.1	4
133	Information from two-dimensional fifth-order Raman spectroscopy: Anharmonicity, nonlinearity, mode coupling, and molecular structure. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0