

Andrei Tokmakoff

List of Publications by Year in descending order

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133
papers

8,516
citations

39113

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56606

87
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139
all docs

139
docs citations

139
times ranked

6276
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Characterization of Acetonitrile Isotopologues as Vibrational Probes of Electrolytes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 278-291. | 1.2 | 15 |
| 2 | 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 |
| 3 | Exchange-Mediated Transport in Battery Electrolytes: Ultrafast or Ultraslow?. <i>Journal of the American Chemical Society</i> , 2022, 144, 8591-8604. | 6.6 | 18 |
| 4 | 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 |
| 5 | 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 |
| 6 | Fluorescence-Encoded Infrared Vibrational Spectroscopy with Single-Molecule Sensitivity. <i>Journal of the American Chemical Society</i> , 2021, 143, 3060-3064. | 6.6 | 25 |
| 7 | 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 |
| 8 | Computational IR Spectroscopy of Insulin Dimer Structure and Conformational Heterogeneity. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4620-4633. | 1.2 | 14 |
| 9 | 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 |
| 10 | 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 |
| 11 | Water or Anion? Uncovering the Zn^{2+} Solvation Environment in Mixed $Zn(TFSI)_2$ and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 3458-3463. | 8.8 | 45 |
| 12 | Crossover from hydrogen to chemical bonding. <i>Science</i> , 2021, 371, 160-164. | 6.0 | 123 |
| 13 | Structural Ensemble of the Insulin Monomer. <i>Biochemistry</i> , 2021, 60, 3125-3136. | 1.2 | 5 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Vibrational Probe of Aqueous Electrolytes: The Field Is Not Enough. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7013-7026. | 1.2 | 13 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | DNA minor-groove binder Hoechst 33258 destabilizes base-pairing adjacent to its binding site. <i>Communications Biology</i> , 2020, 3, 525. | 2.0 | 25 |
| 20 | 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 |
| 21 | 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 |
| 22 | Insulin Dissociates by Diverse Mechanisms of Coupled Unfolding and Unbinding. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5571-5587. | 1.2 | 35 |
| 23 | Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , 2020, 120, 7152-7218. | 23.0 | 205 |
| 24 | 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 |
| 25 | 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 |
| 26 | Dynamic and Programmable Cellular-Scale Granules Enable Tissue-like Materials. <i>Matter</i> , 2020, 2, 948-964. | 5.0 | 30 |
| 27 | 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 |
| 28 | Entropic barriers in the kinetics of aqueous proton transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034501. | 1.2 | 13 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | A lattice model for the interpretation of oligonucleotide hybridization experiments. <i>Journal of Chemical Physics</i> , 2019, 150, 185104. | 1.2 | 6 |
| 33 | 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 |
| 34 | 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 |
| 35 | Fourier Transform Fluorescence-Encoded Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 554-562. | 1.1 | 16 |
| 36 | Broadband 2D IR spectroscopy reveals dominant asymmetric H ₅ O ₂ ⁺ proton hydration structures in acid solutions. <i>Nature Chemistry</i> , 2018, 10, 932-937. | 6.6 | 105 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Single-stage MHz mid-IR OPA using LiGaS ₂ and a fiber laser pump source. <i>Optics Letters</i> , 2018, 43, 1363. | 1.7 | 34 |
| 38 | Refinement of Peptide Conformational Ensembles by 2D IR Spectroscopy: Application to Ala-Ala-Ala. <i>Biophysical Journal</i> , 2018, 114, 2820-2832. | 0.2 | 16 |
| 39 | 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 |
| 40 | IR spectral assignments for the hydrated excess proton in liquid water. <i>Journal of Chemical Physics</i> , 2017, 146, 154507. | 1.2 | 61 |
| 41 | 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 |
| 42 | Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , 2017, 147, 084503. | 1.2 | 51 |
| 43 | 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 |
| 44 | 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 |
| 45 | Efficient Total Chemical Synthesis of ¹³ C= ¹⁸ O Isotopomers of Human Insulin for Isotope-Edited FTIR. <i>ChemBioChem</i> , 2016, 17, 415-420. | 1.3 | 19 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Differences in the Vibrational Dynamics of H ₂ O and D ₂ 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Two-Photon-Excited Fluorescence-Encoded Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9178-9187. | 1.1 | 17 |
| 54 | 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 |

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| 55 | Studying Protein-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 |
| 56 | 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 |
| 57 | Isotope-enriched protein standards for computational amide I spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 125104. | 1.2 | 17 |
| 58 | Communication: Quantitative multi-site frequency maps for amide I vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 061102. | 1.2 | 27 |
| 59 | Vibrational dynamics of aqueous hydroxide solutions probed using broadband 2DIR spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 194501. | 1.2 | 26 |
| 60 | Distinguishing gramicidin D conformers through two-dimensional infrared spectroscopy of vibrational excitons. <i>Journal of Chemical Physics</i> , 2015, 142, 212424. | 1.2 | 10 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Ultrafast 2D IR spectroscopy of the excess proton in liquid water. <i>Science</i> , 2015, 350, 78-82. | 6.0 | 264 |
| 65 | Preface: Special Topic on Biological Water. <i>Journal of Chemical Physics</i> , 2014, 141, 22D101. | 1.2 | 24 |
| 66 | Ultrafast 2D IR microscopy. <i>Optics Express</i> , 2014, 22, 18724. | 1.7 | 69 |
| 67 | Collective vibrations of water-solvated hydroxide ions investigated with broadband 2DIR spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 204508. | 1.2 | 53 |
| 68 | A Molecular Interpretation of 2D IR Protein Folding Experiments with Markov State Models. <i>Biophysical Journal</i> , 2014, 106, 1359-1370. | 0.2 | 48 |
| 69 | 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 |
| 70 | Direct observation of intermolecular interactions mediated by hydrogen bonding. <i>Journal of Chemical Physics</i> , 2014, 141, 034502. | 1.2 | 50 |
| 71 | 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 |
| 72 | 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 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Robust excitons inhabit soft supramolecular nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3367-75. | 3.3 | 100 |
| 74 | Amide I Two-Dimensional Infrared Spectroscopy: Methods for Visualizing the Vibrational Structure of Large Proteins. Journal of Physical Chemistry A, 2013, 117, 5955-5961. | 1.1 | 29 |
| 75 | Water vibrations have strongly mixed intra- and intermolecular character. Nature Chemistry, 2013, 5, 935-940. | 6.6 | 236 |
| 76 | Electrostatic frequency shifts in amide I vibrational spectra: Direct parameterization against experiment. Journal of Chemical Physics, 2013, 138, 134116. | 1.2 | 87 |
| 77 | Experimental Evidence of Fermi Resonances in Isotopically Dilute Water from Ultrafast Broadband IR Spectroscopy. Journal of Physical Chemistry B, 2013, 117, 15319-15327. | 1.2 | 66 |
| 78 | Folding of a heterogeneous β -hairpin peptide from temperature-jump 2D IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2828-2833. | 3.3 | 71 |
| 79 | Direct observation of ground-state lactam \rightleftharpoons lactim tautomerization using temperature-jump transient 2D IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9243-9248. | 3.3 | 50 |
| 80 | Transient two-dimensional spectroscopy with linear absorption corrections applied to temperature-jump two-dimensional infrared. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 118. | 0.9 | 26 |
| 81 | A phenomenological approach to modeling chemical dynamics in nonlinear and two-dimensional spectroscopy. Journal of Chemical Physics, 2012, 136, 134507. | 1.2 | 5 |
| 82 | Identifying Residual Structure in Intrinsically Disordered Systems: A 2D IR Spectroscopic Study of the GVGXPGVG Peptide. Journal of the American Chemical Society, 2012, 134, 5032-5035. | 6.6 | 48 |
| 83 | Coherent two-dimensional infrared spectroscopy: Quantitative analysis of protein secondary structure in solution. Analyst, The, 2012, 137, 1793. | 1.7 | 65 |
| 84 | Identification of Lactam \rightleftharpoons Lactim Tautomers of Aromatic Heterocycles in Aqueous Solution Using 2D IR Spectroscopy. Journal of Physical Chemistry Letters, 2012, 3, 3302-3306. | 2.1 | 34 |
| 85 | Proton Transfer in Concentrated Aqueous Hydroxide Visualized Using Ultrafast Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 3957-3972. | 1.1 | 45 |
| 86 | Collective Hydrogen Bond Reorganization in Water Studied with Temperature-Dependent Ultrafast Infrared Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 5604-5616. | 1.2 | 92 |
| 87 | Anharmonic Vibrational Modes of Nucleic Acid Bases Revealed by 2D IR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 15650-15660. | 6.6 | 108 |
| 88 | A fast-scanning Fourier transform 2D IR interferometer. Optics Communications, 2011, 284, 1062-1066. | 1.0 | 21 |
| 89 | Vibrational excitons in ionophores: experimental probes for quantum coherence-assisted ion transport and selectivity in ion channels. New Journal of Physics, 2011, 13, 113030. | 1.2 | 32 |
| 90 | Solvent and conformation dependence of amide I vibrations in peptides and proteins containing proline. Journal of Chemical Physics, 2011, 135, 234507. | 1.2 | 58 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Melting of a \hat{I}^2 -Hairpin Peptide Using Isotope-Edited 2D IR Spectroscopy and Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10913-10924. | 1.2 | 97 |
| 92 | 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 |
| 93 | Source for ultrafast continuum infrared and terahertz radiation. <i>Optics Letters</i> , 2010, 35, 1962. | 1.7 | 158 |
| 94 | 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 |
| 95 | 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 |
| 96 | Structural Rearrangements in Water Viewed Through Two-Dimensional Infrared Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1239-1249. | 7.6 | 177 |
| 97 | Amide I \hat{I}^2 2D IR Spectroscopy Provides Enhanced Protein Secondary Structural Sensitivity. <i>Journal of the American Chemical Society</i> , 2009, 131, 3385-3391. | 6.6 | 141 |
| 98 | Heterodyne-Detected Dispersed Vibrational Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14060-14066. | 1.1 | 35 |
| 99 | 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 |
| 100 | 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 |
| 101 | Amide I Two-Dimensional Infrared Spectroscopy of Proteins. <i>Accounts of Chemical Research</i> , 2008, 41, 432-441. | 7.6 | 427 |
| 102 | Ultrafast N-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 |
| 103 | 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 |
| 104 | Transient two-dimensional IR spectrometer for probing nanosecond temperature-jump kinetics. <i>Review of Scientific Instruments</i> , 2007, 78, 063101. | 0.6 | 66 |
| 105 | Shining Light on the Rapidly Evolving Structure of Water. <i>Science</i> , 2007, 317, 54-55. | 6.0 | 57 |
| 106 | Two-dimensional Fourier transform spectroscopy in the pump-probe geometry. <i>Optics Letters</i> , 2007, 32, 2966. | 1.7 | 191 |
| 107 | Single-shot two-dimensional infrared spectroscopy. <i>Optics Express</i> , 2007, 15, 233. | 1.7 | 33 |
| 108 | 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 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Infrared spectroscopy of tritiated water. <i>Chemical Physics Letters</i> , 2007, 449, 130-134. | 1.2 | 7 |
| 110 | Variation of the transition dipole moment across the OH stretching band of water. <i>Chemical Physics</i> , 2007, 341, 218-229. | 0.9 | 70 |
| 111 | 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 |
| 112 | Water Penetration into Protein Secondary Structure Revealed by Hydrogen-Deuterium Exchange Two-Dimensional Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 16520-16521. | 6.6 | 52 |
| 113 | Characterization of spectral diffusion from two-dimensional line shapes. <i>Journal of Chemical Physics</i> , 2006, 125, 084502. | 1.2 | 270 |
| 114 | Spectral Signatures of Heterogeneous Protein Ensembles Revealed by MD Simulations of 2DIR Spectra. <i>Biophysical Journal</i> , 2006, 91, 2636-2646. | 0.2 | 91 |
| 115 | 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 |
| 116 | Multidimensional infrared spectroscopy of water. II. Hydrogen bond switching dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 194522. | 1.2 | 175 |
| 117 | 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 |
| 118 | Single-shot two-dimensional spectrometer. <i>Optics Letters</i> , 2006, 31, 113. | 1.7 | 15 |
| 119 | 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 |
| 120 | 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 |
| 121 | Residual Native Structure in a Thermally Denatured β -Hairpin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17025-17027. | 1.2 | 60 |
| 122 | Electric Field Fluctuations Drive Vibrational Dephasing in Water. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9424-9436. | 1.1 | 150 |
| 123 | Upconversion multichannel infrared spectrometer. <i>Optics Letters</i> , 2005, 30, 1818. | 1.7 | 32 |
| 124 | Local hydrogen bonding dynamics and collective reorganization in water: Ultrafast infrared spectroscopy of HOD/D ₂ O. <i>Journal of Chemical Physics</i> , 2005, 122, 054506. | 1.2 | 295 |
| 125 | Nonlinear Infrared Spectroscopy of Protein Conformational Change during Thermal Unfolding. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15332-15342. | 1.2 | 83 |
| 126 | Two-Dimensional Infrared Spectroscopy of Antiparallel β -Sheet Secondary Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 7981-7990. | 6.6 | 267 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Signatures of \hat{I}^2 -sheet secondary structures in linear and two-dimensional infrared spectroscopy. Journal of Chemical Physics, 2004, 120, 8201-8215. | 1.2 | 139 |
| 128 | Polarization-selective femtosecond Raman spectroscopy of low-frequency motions in hydrated protein films. Chemical Physics Letters, 2003, 376, 20-25. | 1.2 | 46 |
| 129 | Information from two-dimensional fifth-order Raman spectroscopy: Anharmonicity, nonlinearity, mode coupling, and molecular structure. AIP Conference Proceedings, 2000, , . | 0.3 | 0 |
| 130 | Two-Dimensional Line Shapes Derived from Coherent Third-Order Nonlinear Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 4247-4255. | 1.1 | 134 |
| 131 | Structural information from two-dimensional fifth-order Raman spectroscopy. Journal of Chemical Physics, 1999, 111, 492-503. | 1.2 | 73 |
| 132 | Two-dimensional line-shape analysis of photon-echo signal. Chemical Physics Letters, 1999, 314, 488-495. | 1.2 | 56 |
| 133 | Intrinsic optical heterodyne detection of a two-dimensional fifth order Raman response. Chemical Physics Letters, 1997, 272, 48-54. | 1.2 | 58 |