

Peter Hamm

List of Publications by Year in descending order

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223
papers

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235
docs citations

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times ranked

7346
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the Amide I Band of Peptides Measured by Femtosecond Nonlinear-Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6123-6138.	1.2	1,026
2	Structure Determination of Trialanine in Water Using Polarization Sensitive Two-Dimensional Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11316-11320.	1.2	354
3	Watching hydrogen-bond dynamics in a β -turn by transient two-dimensional infrared spectroscopy. <i>Nature</i> , 2006, 444, 469-472.	13.7	316
4	Generation, shaping, and characterization of intense femtosecond pulses tunable from 3 to 20 μm . <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 2086.	0.9	302
5	Non-Markovian Dynamics of the Vibrations of Ions in Water from Femtosecond Infrared Three-Pulse Photon Echoes. <i>Physical Review Letters</i> , 1998, 81, 5326-5329.	2.9	286
6	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , 2019, 27, 566-578.	1.6	285
7	Noise suppression in femtosecond mid-infrared light sources. <i>Optics Letters</i> , 2000, 25, 1798.	1.7	252
8	Ultrafast Vibrational Dephasing of Liquid Water. <i>Physical Review Letters</i> , 2001, 87, .	2.9	220
9	Peptide conformational heterogeneity revealed from nonlinear vibrational spectroscopy and molecular-dynamics simulations. <i>Journal of Chemical Physics</i> , 2002, 117, 6833-6840.	1.2	219
10	Vibrational energy relaxation of the cyanide ion in water. <i>Journal of Chemical Physics</i> , 1997, 107, 10523-10531.	1.2	205
11	A Highly Stable Rhenium ^{II} Cobalt System for Photocatalytic H ₂ Production: Unraveling the Performance-Limiting Steps. <i>Inorganic Chemistry</i> , 2010, 49, 6453-6460.	1.9	200
12	A Photon Echo Peak Shift Study of Liquid Water. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2341-2350.	1.1	197
13	α -Helix formation in a photoswitchable peptide tracked from picoseconds to microseconds by time-resolved IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2379-2384.	3.3	186
14	Energy transport in peptide helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12749-12754.	3.3	179
15	Two-Dimensional Infrared Spectroscopy of Photoswitchable Peptides. <i>Annual Review of Physical Chemistry</i> , 2008, 59, 291-317.	4.8	164
16	Transient 2D-IR Spectroscopy: Snapshots of the Nonequilibrium Ensemble during the Picosecond Conformational Transition of a Small Peptide. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8654-8660.	1.2	160
17	An Efficient Homogeneous Intermolecular Rhenium-Based Photocatalytic System for the Production of H ₂ . <i>Inorganic Chemistry</i> , 2009, 48, 1836-1843.	1.9	159
18	Picosecond conformational transition and equilibration of a cyclic peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6452-6457.	3.3	156

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19	Photocatalytic H ₂ Production from Water with Rhenium and Cobalt Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 3404-3412.	1.9	150
20	Charge migration and charge transfer in molecular systems. <i>Structural Dynamics</i> , 2017, 4, 061508.	0.9	146
21	Nonlinear two-dimensional vibrational spectroscopy of peptides. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R1035-R1062.	0.7	145
22	Pump/probe self heterodyned 2D spectroscopy of vibrational transitions of a small globular peptide. <i>Journal of Chemical Physics</i> , 2000, 112, 1907-1916.	1.2	144
23	Labeling Vibrations by Light: Ultrafast Transient 2D-IR Spectroscopy Tracks Vibrational Modes during Photoinduced Charge Transfer. <i>Journal of the American Chemical Society</i> , 2004, 126, 990-991.	6.6	137
24	Coupling of the Amide I Modes of the Glycine Dipeptide. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 985-988.	2.0	136
25	Compact implementation of Fourier transform two-dimensional IR spectroscopy without phase ambiguity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 171.	0.9	136
26	Time-resolved two-dimensional vibrational spectroscopy of a short α -helix in water. <i>Journal of Chemical Physics</i> , 2001, 115, 7737-7743.	1.2	135
27	Two-dimensional Raman-terahertz spectroscopy of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20402-20407.	3.3	131
28	Double-resonance versus pulsed Fourier transform two-dimensional infrared spectroscopy: An experimental and theoretical comparison. <i>Journal of Chemical Physics</i> , 2004, 121, 5935-5942.	1.2	127
29	Mechanism of Photocatalytic Hydrogen Generation by a Polypyridyl-Based Cobalt Catalyst in Aqueous Solution. <i>Inorganic Chemistry</i> , 2015, 54, 646-657.	1.9	117
30	α -Helix folding in the presence of structural constraints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9588-9593.	3.3	116
31	Surface-Sensitive and Surface-Specific Ultrafast Two-Dimensional Vibrational Spectroscopy. <i>Chemical Reviews</i> , 2017, 117, 10623-10664.	23.0	114
32	Ultrafast 2D-IR Spectroscopy of Transient Species. <i>ChemPhysChem</i> , 2007, 8, 1747-1756.	1.0	107
33	Photocatalytic H ₂ Production with a Rhenium/Cobalt System in Water under Acidic Conditions. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 59-64.	1.0	100
34	Terahertz echoes reveal the inhomogeneity of aqueous salt solutions. <i>Nature Chemistry</i> , 2017, 9, 273-278.	6.6	99
35	A highly stable polypyridyl-based cobalt catalyst for homo- and heterogeneous photocatalytic water reduction. <i>Dalton Transactions</i> , 2013, 42, 334-337.	1.6	98
36	Kinetic response of a photoperturbed allosteric protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11725-11730.	3.3	93

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37	Energy Transport in Peptide Helices: A Comparison between High- and Low-Energy Excitations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9091-9099.	1.2	92
38	Protein ligand migration mapped by nonequilibrium 2D-IR exchange spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14243-14248.	3.3	91
39	Folding and unfolding of a photoswitchable peptide from picoseconds to microseconds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5383-5388.	3.3	85
40	Coherent Multidimensional Optical Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1207-1209.	7.6	81
41	A Fast Photoswitch for Minimally Perturbed Peptides: A Investigation of the trans to cis Photoisomerization of N-Methylthioacetamide. <i>Journal of the American Chemical Society</i> , 2004, 126, 8823-8834.	6.6	79
42	Stimulated Photon Echoes from Amide I Vibrations. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10049-10053.	1.1	76
43	Active phase stabilization in Fourier-transform two-dimensional infrared spectroscopy. <i>Optics Letters</i> , 2005, 30, 2010.	1.7	76
44	Continuous scanning from picoseconds to microseconds in time resolved linear and nonlinear spectroscopy. <i>Review of Scientific Instruments</i> , 2004, 75, 4462-4466.	0.6	74
45	Ligand Binding Studied by 2D IR Spectroscopy Using the Azidohomoalanine Label. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13705-13712.	1.2	74
46	Coherent Response of Hydrogen Bonds in Liquids Probed by Ultrafast Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2929-2932.	1.1	72
47	Enhancing signal detection and completely eliminating scattering using quasi-phase-cycling in 2D IR experiments. <i>Optics Express</i> , 2010, 18, 27067.	1.7	72
48	Three-Dimensional Infrared Spectroscopy of Isotope-Substituted Liquid Water Reveals Heterogeneous Dynamics. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6976-6984.	1.2	72
49	Direct observation of the collapse of the delocalized excess electron in water. <i>Nature Chemistry</i> , 2014, 6, 697-701.	6.6	72
50	Purely absorptive three-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 130, 164510.	1.2	70
51	Two-Dimensional Infrared Spectroscopy of Supercooled Water. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5289-5293.	1.2	70
52	Versatile small volume closed-cycle flow cell system for transient spectroscopy at high repetition rates. <i>Review of Scientific Instruments</i> , 2003, 74, 3188-3189.	0.6	68
53	Time-Resolved Visible and Infrared Study of the Cyano Complexes of Myoglobin and of Hemoglobin I from <i>Lucina pectinata</i> . <i>Biophysical Journal</i> , 2004, 87, 1881-1891.	0.2	68
54	What Can We Learn from Three-Dimensional Infrared Spectroscopy?. <i>Accounts of Chemical Research</i> , 2009, 42, 1412-1422.	7.6	63

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55	Two-dimensional-Raman-terahertz spectroscopy of water: Theory. <i>Journal of Chemical Physics</i> , 2012, 136, 094516.	1.2	63
56	Light-Driven Electron Accumulation in a Molecular Pentad. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9407-9410.	7.2	63
57	Spectral response of crystalline acetanilide and N-methylacetamide: Vibrational self-trapping in hydrogen-bonded crystals. <i>Physical Review B</i> , 2004, 69, .	1.1	61
58	Intramolecular Light-Driven Accumulation of Reduction Equivalents by Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 5225-5232.	6.6	59
59	Peptide structure determination by two-dimensional infrared spectroscopy in the presence of homogeneous and inhomogeneous broadening. <i>Journal of Chemical Physics</i> , 2003, 119, 1569-1578.	1.2	58
60	Three-dimensional-IR spectroscopy: Beyond the two-point frequency fluctuation correlation function. <i>Journal of Chemical Physics</i> , 2006, 124, 124506.	1.2	58
61	Surface-Sensitive Spectro-electrochemistry Using Ultrafast 2D ATR IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2883-2892.	1.5	58
62	Surface Enhancement in Ultrafast 2D ATR IR Spectroscopy at the Metal-Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3350-3359.	1.5	57
63	Transient two-dimensional infrared spectroscopy: Exploring the polarization dependence. <i>Journal of Chemical Physics</i> , 2004, 121, 5943-5957.	1.2	55
64	2D-IR Spectroscopy of the Sulfhydryl Band of Cysteines in the Hydrophobic Core of Proteins. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7645-7650.	1.2	54
65	Structural Flexibility of a Helical Peptide Regulates Vibrational Energy Transport Properties. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15487-15492.	1.2	53
66	Gold Nanoparticle Capping Layers: Structure, Dynamics, and Surface Enhancement Measured Using 2D-IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 634-638.	7.2	53
67	2D IR spectra of cyanide in water investigated by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2013, 139, 054506.	1.2	53
68	Vibrational Energy Transport in Peptide Helices after Excitation of C ¹³ D Modes in Leu- <i>d</i> ₁₀ . <i>Journal of Physical Chemistry B</i> , 2009, 113, 13393-13397.	1.2	50
69	A non-equilibrium approach to allosteric communication. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170187.	1.8	48
70	Phasing problem of heterodyne-detected two-dimensional infrared spectroscopy. <i>Optics Letters</i> , 2008, 33, 2665.	1.7	47
71	Two-dimensional infrared spectroscopy of isotope-diluted ice Ih. <i>Journal of Chemical Physics</i> , 2011, 134, 204505.	1.2	47
72	A femtosecond study of the infrared-driven cis-trans isomerization of nitrous acid (HONO). <i>Journal of Chemical Physics</i> , 2005, 122, 044509.	1.2	46

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73	Dynamical Transition in a Small Helical Peptide and Its Implication for Vibrational Energy Transport. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13405-13409.	1.2	46
74	Real-time observation of ligand-induced allosteric transitions in a PDZ domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26031-26039.	3.3	45
75	Solvation beyond the Linear Response Regime. <i>Physical Review Letters</i> , 2005, 95, 083201.	2.9	44
76	2D-IR Study of a Photoswitchable Isotope-Labeled α -Helix. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3735-3740.	1.2	43
77	Intramolecular Disulfide Bridges as a Phototrigger To Monitor the Dynamics of Small Cyclic Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11297-11302.	1.2	42
78	Ultrafast, Multidimensional Attenuated Total Reflectance Spectroscopy of Adsorbates at Metal Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2325-2329.	2.1	42
79	2D-Raman-THz spectroscopy: A sensitive test of polarizable water models. <i>Journal of Chemical Physics</i> , 2014, 141, 184201.	1.2	42
80	Coherent vibrational ground-state dynamics of an intramolecular hydrogen bond. <i>Chemical Physics Letters</i> , 2001, 341, 56-62.	1.2	40
81	Fast infrared spectroscopy of protein dynamics: advancing sensitivity and selectivity. <i>Current Opinion in Structural Biology</i> , 2015, 34, 1-6.	2.6	40
82	Vibrational Conical Intersections as a Mechanism of Ultrafast Vibrational Relaxation. <i>Physical Review Letters</i> , 2012, 109, 173201.	2.9	38
83	Characterization of the Platinum-Hydrogen Bond by Surface-Sensitive Time-Resolved Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1254-1259.	2.1	38
84	Structural Inhomogeneity of Water by Complex Network Analysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15598-15604.	1.2	37
85	Impact of nuclear quantum effects on the structural inhomogeneity of liquid water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2458-2463.	3.3	36
86	Three-point frequency fluctuation correlation functions of the OH stretch in liquid water. <i>Journal of Chemical Physics</i> , 2008, 128, 104507.	1.2	35
87	pH-Jump Induced Leucine Zipper Folding beyond the Diffusion Limit. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1425-1432.	1.2	35
88	Vibrational ladder-climbing in surface-enhanced, ultrafast infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16088-16093.	1.3	34
89	Shot-to-shot 2D IR spectroscopy at 100 kHz using a Yb laser and custom-designed electronics. <i>Optics Express</i> , 2020, 28, 33584.	1.7	34
90	Femtosecond IR Pump-Probe Spectroscopy of Nonlinear Energy Localization in Protein Models and Model Proteins. <i>Journal of Biological Physics</i> , 2009, 35, 17-30.	0.7	33

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91	Vibrational Dynamics of LiBH ₄ by Infrared Pump-Probe and 2D Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 12838-12846.	1.1	33
92	pH-jump induced α -helix folding of poly-l-glutamic acid. Chemical Physics, 2013, 422, 124-130.	0.9	33
93	Photocontrolling Protein-Protein Interactions: From Minimal Perturbation to Complete Unbinding. Journal of the American Chemical Society, 2019, 141, 10702-10710.	6.6	33
94	Chirped wavepacket dynamics of HgBr from the photolysis of HgBr ₂ in solution. Chemical Physics Letters, 1998, 290, 355-362.	1.2	32
95	The fifth-order contribution to the oscillations in photon echoes of anharmonic vibrators. Chemical Physics Letters, 1999, 301, 167-174.	1.2	32
96	Vibrational Energy Transport through a Capping Layer of Appropriately Designed Peptide Helices over Gold Nanoparticles. Nano Letters, 2010, 10, 3057-3061.	4.5	32
97	Perspective: Echoes in 2D-Raman-THz spectroscopy. Journal of Chemical Physics, 2017, 146, 130901.	1.2	32
98	Three-dimensional infrared spectroscopy of isotope-diluted ice Ih. Journal of Chemical Physics, 2013, 139, 014501.	1.2	31
99	Ultrafast Vibrational Energy Transfer in Catalytic Monolayers at Solid-Liquid Interfaces. Journal of Physical Chemistry Letters, 2017, 8, 2489-2495.	2.1	31
100	Nonadiabatic effects in electronic and nuclear dynamics. Structural Dynamics, 2017, 4, 061510.	0.9	31
101	A Consistent Picture of the Proton Release Mechanism of <i>o</i> -NBA in Water by Ultrafast Spectroscopy and Ab Initio Molecular Dynamics. Journal of Physical Chemistry B, 2011, 115, 1075-1083.	1.2	30
102	2D attenuated total reflectance infrared spectroscopy reveals ultrafast vibrational dynamics of organic monolayers at metal-liquid interfaces. Journal of Chemical Physics, 2015, 142, 212413.	1.2	30
103	Femtosecond Mid-Infrared Pump-Probe Study of Wave Packet Motion in a Medium-Strong Intramolecular Hydrogen Bond. Bulletin of the Chemical Society of Japan, 2002, 75, 909-917.	2.0	29
104	Two-dimensional infrared spectroscopy of neat ice Ih. Physical Chemistry Chemical Physics, 2012, 14, 6250.	1.3	29
105	Two-Dimensional Infrared Spectroscopy of Isotope-Diluted Low Density Amorphous Ice. Journal of Physical Chemistry B, 2013, 117, 15512-15518.	1.2	29
106	Stretched versus compressed exponential kinetics in α -helix folding. Chemical Physics, 2006, 323, 54-65.	0.9	28
107	Vibrational energy transport in the presence of intrasite vibrational energy redistribution. Journal of Chemical Physics, 2009, 131, 044511.	1.2	28
108	Site-Specific Difference 2D-IR Spectroscopy of Bacteriorhodopsin. Journal of Physical Chemistry B, 2009, 113, 6520-6527.	1.2	28

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109	Quantum vibrational polarons: Crystalline acetanilide revisited. <i>Physical Review B</i> , 2006, 73, .	1.1	27
110	Temperature Dependence of the Heat Diffusivity of Proteins. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2620-2628.	1.1	27
111	Using azobenzene photocontrol to set proteins in motion. <i>Nature Reviews Chemistry</i> , 2022, 6, 112-124.	13.8	27
112	Vibrational dynamics of hydrogen bonds. , 2007, , 619-687.		26
113	Long-Range Conformational Transition of a Photoswitchable Allosteric Protein: Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13468-13476.	1.2	26
114	Response of Villin Headpiece-Capped Gold Nanoparticles to Ultrafast Laser Heating. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7954-7962.	1.2	26
115	Markov state model of the two-state behaviour of water. <i>Journal of Chemical Physics</i> , 2016, 145, 134501.	1.2	26
116	Quinones as Reversible Electron Relays in Artificial Photosynthesis. <i>ChemPhysChem</i> , 2016, 17, 1321-1328.	1.0	26
117	Transient 2D-IR Spectroscopy of Thiopeptide Isomerization. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8398-8405.	1.2	24
118	Note: Inverted time-ordering in two-dimensional-Raman-terahertz spectroscopy of water. <i>Journal of Chemical Physics</i> , 2012, 136, 236101.	1.2	24
119	Implications of short time scale dynamics on long time processes. <i>Structural Dynamics</i> , 2017, 4, 061507.	0.9	24
120	The infrared-driven cis-trans isomerization of HONO. II: Vibrational relaxation and slow isomerization channel. <i>Journal of Chemical Physics</i> , 2006, 124, 234511.	1.2	22
121	Vibrational conical intersections in the water dimer. <i>Molecular Physics</i> , 2013, 111, 2046-2056.	0.8	22
122	Perspective: THz-driven nuclear dynamics from solids to molecules. <i>Structural Dynamics</i> , 2017, 4, 061601.	0.9	22
123	Restricted rotational motion of CO in a protein internal cavity: Evidence for nonseparating correlation functions from IR pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 124505.	1.2	20
124	Detectivity enhancement in THz electrooptical sampling. <i>Review of Scientific Instruments</i> , 2014, 85, 013114.	0.6	20
125	Nonadiabatic vibrational dynamics in the HCO ₂ ⁻ ...H ₂ O complex. <i>Journal of Chemical Physics</i> , 2015, 143, 134308.	1.2	20
126	An efficient water force field calibrated against intermolecular THz and Raman spectra. <i>Journal of Chemical Physics</i> , 2018, 148, 244504.	1.2	20

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127	Transient 2D IR spectroscopy from micro- to milliseconds. <i>Journal of Chemical Physics</i> , 2021, 154, 104201.	1.2	20
128	Semiclassical and quantum polarons in crystalline acetanilide. <i>European Physical Journal: Special Topics</i> , 2007, 147, 303-331.	1.2	19
129	Photocontrol of Reversible Amyloid Formation with a Minimal-Design Peptide. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8961-8973.	1.2	19
130	Quantifying Biomolecular Recognition with Site-Specific 2D Infrared Probes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2280-2284.	2.1	19
131	The Speed of Allosteric Signaling Within a Single-Domain Protein. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4262-4267.	2.1	19
132	Nanosecond protein dynamics in a red/green cyanobacteriochrome revealed by transient IR spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 245101.	1.2	19
133	pH-Jump Overshooting. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1607-1611.	2.1	18
134	Towards a microscopic description of the free-energy landscape of water. <i>Journal of Chemical Physics</i> , 2012, 137, 144504.	1.2	18
135	Lichtgetriebene Elektronenakkumulation in einer molekularen Pentade. <i>Angewandte Chemie</i> , 2016, 128, 9553-9556.	1.6	18
136	2D-IR Spectroscopy of an AHA Labeled Photoswitchable PDZ2 Domain. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9435-9445.	1.1	18
137	Azidohomoalanine: A Minimally Invasive, Versatile, and Sensitive Infrared Label in Proteins To Study Ligand Binding. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10118-10125.	1.2	18
138	Sensing the allosteric force. <i>Nature Communications</i> , 2020, 11, 5841.	5.8	18
139	Intramolecular vibrational energy relaxation in nitrous acid (HONO). <i>Journal of Chemical Physics</i> , 2008, 129, 164506.	1.2	17
140	Azide-water intermolecular coupling measured by two-color two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 224503.	1.2	17
141	On the Thermal Stability of α -Peptides: A Two-Dimensional Vibrational Spectroscopy Study. <i>Helvetica Chimica Acta</i> , 2002, 85, 3883-3894.	1.0	15
142	Bulky Side Chains and Non-native Salt Bridges Slow down the Folding of a Cross-Linked Helical Peptide: A Combined Molecular Dynamics and Time-Resolved Infrared Spectroscopy Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4435-4442.	1.2	15
143	Feynman diagram description of 2D-Raman-THz spectroscopy applied to water. <i>Journal of Chemical Physics</i> , 2019, 150, 044202.	1.2	15
144	High sensitivity transient infrared spectroscopy: a UV/Visible transient grating spectrometer with a heterodyne detected infrared probe. <i>Optics Express</i> , 2012, 20, 12761.	1.7	14

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145	The effect of the Gouy phase in optical-pump-THz-probe spectroscopy. <i>Optics Express</i> , 2014, 22, 4256.	1.7	14
146	Communication: Disorder-suppressed vibrational relaxation in vapor-deposited high-density amorphous ice. <i>Journal of Chemical Physics</i> , 2014, 140, .	1.2	14
147	2D IR spectroscopy of high-pressure phases of ice. <i>Journal of Chemical Physics</i> , 2017, 147, 144501.	1.2	14
148	Aqueous solvation from the water perspective. <i>Journal of Chemical Physics</i> , 2018, 148, 234505.	1.2	14
149	Signatures of Intra- and Intermolecular Vibrational Coupling in Halogenated Liquids Revealed by Two-Dimensional Raman-Terahertz Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4463-4468.	2.1	14
150	Synthesis, characterization and applicability of three isotope labeled azobenzene photoswitches. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3508.	1.5	13
151	Solvation of fluoro-acetonitrile in water by 2D-IR spectroscopy: A combined experimental-computational study. <i>Journal of Chemical Physics</i> , 2015, 142, 212415.	1.2	13
152	For Structural Biology, Try Infrared Instead. <i>Structure</i> , 2009, 17, 149-150.	1.6	12
153	Speed Limits for Acid-Base Chemistry in Aqueous Solutions. <i>Chimia</i> , 2012, 66, 182-186.	0.3	12
154	Testing for memory-free spectroscopic coordinates by 3D IR exchange spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10462-10467.	3.3	12
155	Effect of viscogens on the kinetic response of a photoperturbed allosteric protein. <i>Journal of Chemical Physics</i> , 2014, 141, 22D514.	1.2	12
156	Surface-enhanced, multi-dimensional attenuated total reflectance spectroscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	12
157	Sequence of Events during Peptide Unbinding from RNase S: A Complete Experimental Description. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5201-5207.	2.1	12
158	Vibrational relaxation and dephasing of small molecules strongly interacting with water. <i>Springer Series in Chemical Physics</i> , 1998, , 514-516.	0.2	11
159	The infrared-driven cis-trans isomerization of nitrous acid HONO III: A mixed quantum-classical simulation. <i>Chemical Physics</i> , 2008, 347, 503-513.	0.9	11
160	Barrier crossing to the small Holstein polaron regime. <i>Physical Review B</i> , 2008, 78, .	1.1	11
161	Conformational Changes in Cryogenic Matrices. , 2011, , 51-84.		11
162	Plasmonic Substrates Do Not Promote Vibrational Energy Transfer at Solid-Liquid Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 49-56.	2.1	11

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