Peter Hamm

List of Publications by Year
in descending order

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223 papers	13,062 citations	23567 58 h-index	30922 102 g-index
235 all docs	235 docs citations	235 times ranked	7346 citing authors

#	Article	IF	Citations
1	Structure of the Amide I Band of Peptides Measured by Femtosecond Nonlinear-Infrared Spectroscopy. Journal of Physical Chemistry B, 1998, 102, 6123-6138.	2.6	1,026
2	Structure Determination of Trialanine in Water Using Polarization Sensitive Two-Dimensional Vibrational Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 11316-11320.	2.6	354
3	Watching hydrogen-bond dynamics in a Î²-turn by transient two-dimensional infrared spectroscopy. Nature, 2006, 444, 469-472.	27.8	316
4	Generation, shaping, and characterization of intense femtosecond pulses tunable from 3 to 20 Î¼m. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 2086.	2.1	302
5	Non-Markovian Dynamics of the Vibrations of Ions in Water from Femtosecond Infrared Three-Pulse Photon Echoes. Physical Review Letters, 1998, 81, 5326-5329.	7.8	286
6	Allostery in Its Many Disguises: From Theory to Applications. Structure, 2019, 27, 566-578.	3.3	285
7	Noise suppression in femtosecond mid-infrared light sources. Optics Letters, 2000, 25, 1798.	3.3	252
8	Ultrafast Vibrational Dephasing of Liquid Water. Physical Review Letters, 2001, 87, .	7.8	220
9	Peptide conformational heterogeneity revealed from nonlinear vibrational spectroscopy and molecular-dynamics simulations. Journal of Chemical Physics, 2002, 117, 6833-6840.	3.0	219
10	Vibrational energy relaxation of the cyanide ion in water. Journal of Chemical Physics, 1997, 107, 10523-10531.	3.0	205
11	A Highly Stable Rheniumâ^'Cobalt System for Photocatalytic H₂ Production: Unraveling the Performance-Limiting Steps. Inorganic Chemistry, 2010, 49, 6453-6460.	4.0	200
12	A Photon Echo Peak Shift Study of Liquid Waterâ€. Journal of Physical Chemistry A, 2002, 106, 2341-2350.	2.5	197
13	Â-Helix formation in a photoswitchable peptide tracked from picoseconds to microseconds by time-resolved IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2379-2384.	7.1	186
14	Energy transport in peptide helices. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12749-12754.	7.1	179
15	Two-Dimensional Infrared Spectroscopy of Photoswitchable Peptides. Annual Review of Physical Chemistry, 2008, 59, 291-317.	10.8	164
16	Transient 2D-IR Spectroscopy:Â Snapshots of the Nonequilibrium Ensemble during the Picosecond Conformational Transition of a Small Peptide. Journal of Physical Chemistry B, 2003, 107, 8654-8660.	2.6	160
17	An Efficient Homogeneous Intermolecular Rhenium-Based Photocatalytic System for the Production of H₂. Inorganic Chemistry, 2009, 48, 1836-1843.	4.0	159
18	Picosecond conformational transition and equilibration of a cyclic peptide. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6452-6457.	7.1	156

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19	Photocatalytic H₂ Production from Water with Rhenium and Cobalt Complexes. Inorganic Chemistry, 2011, 50, 3404-3412.	4.0	150
20	Charge migration and charge transfer in molecular systems. Structural Dynamics, 2017, 4, 061508.	2.3	146
21	Nonlinear two-dimensional vibrational spectroscopy of peptides. Journal of Physics Condensed Matter, 2002, 14, R1035-R1062.	1.8	145
22	Pump/probe self heterodyned 2D spectroscopy of vibrational transitions of a small globular peptide. Journal of Chemical Physics, 2000, 112, 1907-1916.	3.0	144
23	Labeling Vibrations by Light:â€‰ Ultrafast Transient 2D-IR Spectroscopy Tracks Vibrational Modes during Photoinduced Charge Transfer. Journal of the American Chemical Society, 2004, 126, 990-991.	13.7	137
24	Coupling of the Amide I Modes of the Glycine Dipeptide. Bulletin of the Chemical Society of Japan, 2002, 75, 985-988.	3.2	136
25	Compact implementation of Fourier transform two-dimensional IR spectroscopy without phase ambiguity. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 171.	2.1	136
26	Time-resolved two-dimensional vibrational spectroscopy of a short Î±-helix in water. Journal of Chemical Physics, 2001, 115, 7737-7743.	3.0	135
27	Two-dimensional Raman-terahertz spectroscopy of water. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20402-20407.	7.1	131
28	Double-resonance versus pulsed Fourier transform two-dimensional infrared spectroscopy: An experimental and theoretical comparison. Journal of Chemical Physics, 2004, 121, 5935-5942.	3.0	127
29	Mechanism of Photocatalytic Hydrogen Generation by a Polypyridyl-Based Cobalt Catalyst in Aqueous Solution. Inorganic Chemistry, 2015, 54, 646-657.	4.0	117
30	Î±-Helix folding in the presence of structural constraints. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9588-9593.	7.1	116
31	Surface-Sensitive and Surface-Specific Ultrafast Two-Dimensional Vibrational Spectroscopy. Chemical Reviews, 2017, 117, 10623-10664.	47.7	114
32	Ultrafast 2Dâ€“IR Spectroscopy of Transient Species. ChemPhysChem, 2007, 8, 1747-1756.	2.1	107
33	Photocatalytic H₂ Production with a Rhenium/Cobalt System in Water under Acidic Conditions. European Journal of Inorganic Chemistry, 2012, 2012, 59-64.	2.0	100
34	Terahertz echoes reveal the inhomogeneity of aqueous salt solutions. Nature Chemistry, 2017, 9, 273-278.	13.6	99
35	A highly stable polypyridyl-based cobalt catalyst for homo- and heterogeneous photocatalytic water reduction. Dalton Transactions, 2013, 42, 334-337.	3.3	98
36	Kinetic response of a photoperturbed allosteric protein. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11725-11730.	7.1	93

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37	Energy Transport in Peptide Helices: A Comparison between High- and Low-Energy Excitations. Journal of Physical Chemistry B, 2008, 112, 9091-9099.	2.6	92
38	Protein ligand migration mapped by nonequilibrium 2D-IR exchange spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14243-14248.	7.1	91
39	Folding and unfolding of a photoswitchable peptide from picoseconds to microseconds. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5383-5388.	7.1	85
40	Coherent Multidimensional Optical Spectroscopy. Accounts of Chemical Research, 2009, 42, 1207-1209.	15.6	81
41	A Fast Photoswitch for Minimally Perturbed Peptides:Â Investigation of the trans â†' cis Photoisomerization ofN-Methylthioacetamide. Journal of the American Chemical Society, 2004, 126, 8823-8834.	13.7	79
42	Stimulated Photon Echoes from Amide I Vibrations. Journal of Physical Chemistry A, 1999, 103, 10049-10053.	2.5	76
43	Active phase stabilization in Fourier-transform two-dimensional infrared spectroscopy. Optics Letters, 2005, 30, 2010.	3.3	76
44	Continuous scanning from picoseconds to microseconds in time resolved linear and nonlinear spectroscopy. Review of Scientific Instruments, 2004, 75, 4462-4466.	1.3	74
45	Ligand Binding Studied by 2D IR Spectroscopy Using the Azidohomoalanine Label. Journal of Physical Chemistry B, 2012, 116, 13705-13712.	2.6	74
46	Coherent Response of Hydrogen Bonds in Liquids Probed by Ultrafast Vibrational Spectroscopy. Journal of Physical Chemistry A, 2001, 105, 2929-2932.	2.5	72
47	Enhancing signal detection and completely eliminating scattering using quasi-phase-cycling in 2D IR experiments. Optics Express, 2010, 18, 27067.	3.4	72
48	Three-Dimensional Infrared Spectroscopy of Isotope-Substituted Liquid Water Reveals Heterogeneous Dynamics. Journal of Physical Chemistry B, 2011, 115, 6976-6984.	2.6	72
49	Direct observation of the collapse of the delocalized excess electron in water. Nature Chemistry, 2014, 6, 697-701.	13.6	72
50	Purely absorptive three-dimensional infrared spectroscopy. Journal of Chemical Physics, 2009, 130, 164510.	3.0	70
51	Two-Dimensional Infrared Spectroscopy of Supercooled Water. Journal of Physical Chemistry B, 2011, 115, 5289-5293.	2.6	70
52	Versatile small volume closed-cycle flow cell system for transient spectroscopy at high repetition rates. Review of Scientific Instruments, 2003, 74, 3188-3189.	1.3	68
53	Time-Resolved Visible and Infrared Study of the Cyano Complexes of Myoglobin and of Hemoglobin I from Lucina pectinata. Biophysical Journal, 2004, 87, 1881-1891.	0.5	68
54	What Can We Learn from Three-Dimensional Infrared Spectroscopy?. Accounts of Chemical Research, 2009, 42, 1412-1422.	15.6	63

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55	Two-dimensional-Raman-terahertz spectroscopy of water: Theory. Journal of Chemical Physics, 2012, 136, 094516.	3.0	63
56	Lightâ€Driven Electron Accumulation in a Molecular Pentad. Angewandte Chemie - International Edition, 2016, 55, 9407-9410.	13.8	63
57	Spectral response of crystalline acetanilide andN-methylacetamide: Vibrational self-trapping in hydrogen-bonded crystals. Physical Review B, 2004, 69, .	3.2	61
58	Intramolecular Light-Driven Accumulation of Reduction Equivalents by Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2017, 139, 5225-5232.	13.7	59
59	Peptide structure determination by two-dimensional infrared spectroscopy in the presence of homogeneous and inhomogeneous broadening. Journal of Chemical Physics, 2003, 119, 1569-1578.	3.0	58
60	Three-dimensional-IR spectroscopy: Beyond the two-point frequency fluctuation correlation function. Journal of Chemical Physics, 2006, 124, 124506.	3.0	58
61	Surface-Sensitive Spectro-electrochemistry Using Ultrafast 2D ATR IR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 2883-2892.	3.1	58
62	Surface Enhancement in Ultrafast 2D ATR IR Spectroscopy at the Metal-Liquid Interface. Journal of Physical Chemistry C, 2016, 120, 3350-3359.	3.1	57
63	Transient two-dimensional infrared spectroscopy: Exploring the polarization dependence. Journal of Chemical Physics, 2004, 121, 5943-5957.	3.0	55
64	2D-IR Spectroscopy of the Sulfhydryl Band of Cysteines in the Hydrophobic Core of Proteins. Journal of Physical Chemistry B, 2008, 112, 7645-7650.	2.6	54
65	Structural Flexibility of a Helical Peptide Regulates Vibrational Energy Transport Properties. Journal of Physical Chemistry B, 2008, 112, 15487-15492.	2.6	53
66	Gold Nanoparticle Capping Layers: Structure, Dynamics, and Surface Enhancement Measured Using 2Dâ€IR Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 634-638.	13.8	53
67	2D IR spectra of cyanide in water investigated by molecular dynamics simulations. Journal of Chemical Physics, 2013, 139, 054506.	3.0	53
68	Vibrational Energy Transport in Peptide Helices after Excitation of Câ^'D Modes in Leu-d₁₀. Journal of Physical Chemistry B, 2009, 113, 13393-13397.	2.6	50
69	A non-equilibrium approach to allosteric communication. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170187.	4.0	48
70	Phasing problem of heterodyne-detected two-dimensional infrared spectroscopy. Optics Letters, 2008, 33, 2665.	3.3	47
71	Two-dimensional infrared spectroscopy of isotope-diluted ice Ih. Journal of Chemical Physics, 2011, 134, 204505.	3.0	47
72	A femtosecond study of the infrared-driven cis-trans isomerization of nitrous acid (HONO). Journal of Chemical Physics, 2005, 122, 044509.	3.0	46

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73	Dynamical Transition in a Small Helical Peptide and Its Implication for Vibrational Energy Transport. Journal of Physical Chemistry B, 2009, 113, 13405-13409.	2.6	46
74	Real-time observation of ligand-induced allosteric transitions in a PDZ domain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26031-26039.	7.1	45
75	Solvation beyond the Linear Response Regime. Physical Review Letters, 2005, 95, 083201.	7.8	44
76	2D-IR Study of a Photoswitchable Isotope-Labeled Î±-Helix. Journal of Physical Chemistry B, 2010, 114, 3735-3740.	2.6	43
77	Intramolecular Disulfide Bridges as a Phototrigger To Monitor the Dynamics of Small Cyclic Peptides. Journal of Physical Chemistry B, 2007, 111, 11297-11302.	2.6	42
78	Ultrafast, Multidimensional Attenuated Total Reflectance Spectroscopy of Adsorbates at Metal Surfaces. Journal of Physical Chemistry Letters, 2014, 5, 2325-2329.	4.6	42
79	2D-Raman-THz spectroscopy: A sensitive test of polarizable water models. Journal of Chemical Physics, 2014, 141, 184201.	3.0	42
80	Coherent vibrational ground-state dynamics of an intramolecular hydrogen bond. Chemical Physics Letters, 2001, 341, 56-62.	2.6	40
81	Fast infrared spectroscopy of protein dynamics: advancing sensitivity and selectivity. Current Opinion in Structural Biology, 2015, 34, 1-6.	5.7	40
82	Vibrational Conical Intersections as a Mechanism of Ultrafast Vibrational Relaxation. Physical Review Letters, 2012, 109, 173201.	7.8	38
83	Characterization of the Platinumâ€“Hydrogen Bond by Surface-Sensitive Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 1254-1259.	4.6	38
84	Structural Inhomogeneity of Water by Complex Network Analysis. Journal of Physical Chemistry B, 2010, 114, 15598-15604.	2.6	37
85	Impact of nuclear quantum effects on the structural inhomogeneity of liquid water. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2458-2463.	7.1	36
86	Three-point frequency fluctuation correlation functions of the OH stretch in liquid water. Journal of Chemical Physics, 2008, 128, 104507.	3.0	35
87	pH-Jump Induced Leucine Zipper Folding beyond the Diffusion Limit. Journal of Physical Chemistry B, 2015, 119, 1425-1432.	2.6	35
88	Vibrational ladder-climbing in surface-enhanced, ultrafast infrared spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 16088-16093.	2.8	34
89	Shot-to-shot 2D IR spectroscopy at 100 kHz using a Yb laser and custom-designed electronics. Optics Express, 2020, 28, 33584.	3.4	34
90	Femtosecond IR Pump-Probe Spectroscopy of Nonlinear Energy Localization in Protein Models and Model Proteins. Journal of Biological Physics, 2009, 35, 17-30.	1.5	33

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91	Vibrational Dynamics of LiBH₄ by Infrared Pumpâ^'Probe and 2D Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 12838-12846.	2.5	33
92	pH-jump induced Î±-helix folding of poly-l-glutamic acid. Chemical Physics, 2013, 422, 124-130.	1.9	33
93	Photocontrolling Proteinâ€"Peptide Interactions: From Minimal Perturbation to Complete Unbinding. Journal of the American Chemical Society, 2019, 141, 10702-10710.	13.7	33
94	Chirped wavepacket dynamics of HgBr from the photolysis of HgBr2 in solution. Chemical Physics Letters, 1998, 290, 355-362.	2.6	32
95	The fifth-order contribution to the oscillations in photon echoes of anharmonic vibrators. Chemical Physics Letters, 1999, 301, 167-174.	2.6	32
96	Vibrational Energy Transport through a Capping Layer of Appropriately Designed Peptide Helices over Gold Nanoparticles. Nano Letters, 2010, 10, 3057-3061.	9.1	32
97	Perspective: Echoes in 2D-Raman-THz spectroscopy. Journal of Chemical Physics, 2017, 146, 130901.	3.0	32
98	Three-dimensional infrared spectroscopy of isotope-diluted ice Ih. Journal of Chemical Physics, 2013, 139, 014501.	3.0	31
99	Ultrafast Vibrational Energy Transfer in Catalytic Monolayers at Solidâ€"Liquid Interfaces. Journal of Physical Chemistry Letters, 2017, 8, 2489-2495.	4.6	31
100	Nonadiabatic effects in electronic and nuclear dynamics. Structural Dynamics, 2017, 4, 061510.	2.3	31
101	A Consistent Picture of the Proton Release Mechanism of oNBA in Water by Ultrafast Spectroscopy and Ab Initio Molecular Dynamics. Journal of Physical Chemistry B, 2011, 115, 1075-1083.	2.6	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.	3.0	30
103	Femtosecond Mid-Infrared Pumpâ€"Probe Study of Wave Packet Motion in a Medium-Strong Intramolecular Hydrogen Bond. Bulletin of the Chemical Society of Japan, 2002, 75, 909-917.	3.2	29
104	Two-dimensional infrared spectroscopy of neat ice Ih. Physical Chemistry Chemical Physics, 2012, 14, 6250.	2.8	29
105	Two-Dimensional Infrared Spectroscopy of Isotope-Diluted Low Density Amorphous Ice. Journal of Physical Chemistry B, 2013, 117, 15512-15518.	2.6	29
106	Stretched versus compressed exponential kinetics in Î±-helix folding. Chemical Physics, 2006, 323, 54-65.	1.9	28
107	Vibrational energy transport in the presence of intrasite vibrational energy redistribution. Journal of Chemical Physics, 2009, 131, 044511.	3.0	28
108	Site-Specific Difference 2D-IR Spectroscopy of Bacteriorhodopsin. Journal of Physical Chemistry B, 2009, 113, 6520-6527.	2.6	28

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109	Quantum vibrational polarons: Crystalline acetanilide revisited. Physical Review B, 2006, 73, .	3.2	27
110	Temperature Dependence of the Heat Diffusivity of Proteins. Journal of Physical Chemistry A, 2012, 116, 2620-2628.	2.5	27
111	Using azobenzene photocontrol to set proteins in motion. Nature Reviews Chemistry, 2022, 6, 112-124.	30.2	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. Journal of Physical Chemistry B, 2014, 118, 13468-13476.	2.6	26
114	Response of Villin Headpiece-Capped Gold Nanoparticles to Ultrafast Laser Heating. Journal of Physical Chemistry B, 2014, 118, 7954-7962.	2.6	26
115	Markov state model of the two-state behaviour of water. Journal of Chemical Physics, 2016, 145, 134501.	3.0	26
116	Quinones as Reversible Electron Relays in Artificial Photosynthesis. ChemPhysChem, 2016, 17, 1321-1328.	2.1	26
117	Transient 2D-IR Spectroscopy of Thiopeptide Isomerization. Journal of Physical Chemistry B, 2008, 112, 8398-8405.	2.6	24
118	Note: Inverted time-ordering in two-dimensional-Raman-terahertz spectroscopy of water. Journal of Chemical Physics, 2012, 136, 236101.	3.0	24
119	Implications of short time scale dynamics on long time processes. Structural Dynamics, 2017, 4, 061507.	2.3	24
120	The infrared-driven cis-trans isomerization of HONO. II: Vibrational relaxation and slow isomerization channel. Journal of Chemical Physics, 2006, 124, 234511.	3.0	22
121	Vibrational conical intersections in the water dimer. Molecular Physics, 2013, 111, 2046-2056.	1.7	22
122	Perspective: THz-driven nuclear dynamics from solids to molecules. Structural Dynamics, 2017, 4, 061601.	2.3	22
123	Restricted rotational motion of CO in a protein internal cavity: Evidence for nonseparating correlation functions from IR pump-probe spectroscopy. Journal of Chemical Physics, 2005, 122, 124505.	3.0	20
124	Detectivity enhancement in THz electrooptical sampling. Review of Scientific Instruments, 2014, 85, 013114.	1.3	20
125	Nonadiabatic vibrational dynamics in the HCO2â^'â‹…H2O complex. Journal of Chemical Physics, 2015, 143, 134308.	3.0	20
126	An efficient water force field calibrated against intermolecular THz and Raman spectra. Journal of Chemical Physics, 2018, 148, 244504.	3.0	20

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127	Transient 2D IR spectroscopy from micro- to milliseconds. Journal of Chemical Physics, 2021, 154, 104201.	3.0	20
128	Semiclassical and quantum polarons in crystalline acetanilide. European Physical Journal: Special Topics, 2007, 147, 303-331.	2.6	19
129	Photocontrol of Reversible Amyloid Formation with a Minimal-Design Peptide. Journal of Physical Chemistry B, 2012, 116, 8961-8973.	2.6	19
130	Quantifying Biomolecular Recognition with Site-Specific 2D Infrared Probes. Journal of Physical Chemistry Letters, 2017, 8, 2280-2284.	4.6	19
131	The Speed of Allosteric Signaling Within a Single-Domain Protein. Journal of Physical Chemistry Letters, 2021, 12, 4262-4267.	4.6	19
132	Nanosecond protein dynamics in a red/green cyanobacteriochrome revealed by transient IR spectroscopy. Journal of Chemical Physics, 2020, 153, 245101.	3.0	19
133	pH-Jump Overshooting. Journal of Physical Chemistry Letters, 2011, 2, 1607-1611.	4.6	18
134	Towards a microscopic description of the free-energy landscape of water. Journal of Chemical Physics, 2012, 137, 144504.	3.0	18
135	Lichtgetriebene Elektronenakkumulation in einer molekularen Pentade. Angewandte Chemie, 2016, 128, 9553-9556.	2.0	18
136	2D-IR Spectroscopy of an AHA Labeled Photoswitchable PDZ2 Domain. Journal of Physical Chemistry A, 2017, 121, 9435-9445.	2.5	18
137	Azidohomoalanine: A Minimally Invasive, Versatile, and Sensitive Infrared Label in Proteins To Study Ligand Binding. Journal of Physical Chemistry B, 2018, 122, 10118-10125.	2.6	18
138	Sensing the allosteric force. Nature Communications, 2020, 11, 5841.	12.8	18
139	Intramolecular vibrational energy relaxation in nitrous acid (HONO). Journal of Chemical Physics, 2008, 129, 164506.	3.0	17
140	Azideâ€“water intermolecular coupling measured by two-color two-dimensional infrared spectroscopy. Journal of Chemical Physics, 2012, 136, 224503.	3.0	17
141	On the Thermal Stability of -Peptides: A Two-Dimensional Vibrational Spectroscopy Study. Helvetica Chimica Acta, 2002, 85, 3883-3894.	1.6	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. Journal of Physical Chemistry B, 2009, 113, 4435-4442.	2.6	15
143	Feynman diagram description of 2D-Raman-THz spectroscopy applied to water. Journal of Chemical Physics, 2019, 150, 044202.	3.0	15
144	High sensitivity transient infrared spectroscopy: a UV/Visible transient grating spectrometer with a heterodyne detected infrared probe. Optics Express, 2012, 20, 12761.	3.4	14

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145	The effect of the Gouy phase in optical-pump-THz-probe spectroscopy. Optics Express, 2014, 22, 4256.	3.4	14
146	Communication: Disorder-suppressed vibrational relaxation in vapor-deposited high-density amorphous ice. Journal of Chemical Physics, 2014, 140, .	3.0	14
147	2D IR spectroscopy of high-pressure phases of ice. Journal of Chemical Physics, 2017, 147, 144501.	3.0	14
148	Aqueous solvation from the water perspective. Journal of Chemical Physics, 2018, 148, 234505.	3.0	14
149	Signatures of Intra- and Intermolecular Vibrational Coupling in Halogenated Liquids Revealed by Two-Dimensional Raman-Terahertz Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4463-4468.	4.6	14
150	Synthesis, characterization and applicability of three isotope labeled azobenzene photoswitches. Organic and Biomolecular Chemistry, 2008, 6, 3508.	2.8	13
151	Solvation of fluoro-acetonitrile in water by 2D-IR spectroscopy: A combined experimental-computational study. Journal of Chemical Physics, 2015, 142, 212415.	3.0	13
152	For Structural Biology, Try Infrared Instead. Structure, 2009, 17, 149-150.	3.3	12
153	Speed Limits for Acidâ€“Base Chemistry in Aqueous Solutions. Chimia, 2012, 66, 182-186.	0.6	12
154	Testing for memory-free spectroscopic coordinates by 3D IR exchange spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10462-10467.	7.1	12
155	Effect of viscogens on the kinetic response of a photoperturbed allosteric protein. Journal of Chemical Physics, 2014, 141, 22D514.	3.0	12
156	Surface-enhanced, multi-dimensional attenuated total reflectance spectroscopy. Proceedings of SPIE, 2015, , .	0.8	12
157	Sequence of Events during Peptide Unbinding from RNase S: A Complete Experimental Description. Journal of Physical Chemistry Letters, 2021, 12, 5201-5207.	4.6	12
158	Vibrational relaxation and dephasing of small molecules strongly interacting with water. Springer Series in Chemical Physics, 1998, , 514-516.	0.2	11
159	The infrared-driven cisâ€“trans isomerization of nitrous acid HONO III: A mixed quantumâ€“classical simulation. Chemical Physics, 2008, 347, 503-513.	1.9	11
160	Barrier crossing to the small Holstein polaron regime. Physical Review B, 2008, 78, .	3.2	11
161	Conformational Changes in Cryogenic Matrices. , 2011, , 51-84.		11
162	Plasmonic Substrates Do Not Promote Vibrational Energy Transfer at Solidâ€“Liquid Interfaces. Journal of Physical Chemistry Letters, 2018, 9, 49-56.	4.6	11

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163	Dielectric response of light, heavy and heavy-oxygen water: isotope effects on the hydrogen-bonding network's collective relaxation dynamics. Physical Chemistry Chemical Physics, 2021, 23, 5467-5473.	2.8	11
164	Molecule-specific interactions of diatomic adsorbates at metal-liquid interfaces. Structural Dynamics, 2017, 4, 044009.	2.3	10
165	Temperature dependence of the IR drivencis-transisomerization of nitrous acid (HONO). Journal of Chemical Physics, 2008, 129, 114510.	3.0	9
166	Geminate Recombination versus Cage Escape in the Reductive Quenching of a Re(I) Carbonyl Complex on Mesoporous ZrO₂. Journal of Physical Chemistry C, 2019, 123, 19952-19961.	3.1	9
167	A Correction Scheme for Fano Line Shapes in Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 6185-6190.	4.6	9
168	Time-Resolved IR Spectroscopy of N-Methylthioacetamide:â€‰ Trans â†' Cis Isomerization upon nâˆ'Ï€* and Ï€âˆ'Ï€* Excitation and Cis â†' Trans Photoreaction. Journal of Physical Chemistry A, 2006, 110, 11473-11478.	2.5	8
169	Transition from IVR limited vibrational energy transport to bulk heat transport. Chemical Physics, 2012, 393, 46-50.	1.9	8
170	Intrinsic phasing of heterodyne-detected multidimensional infrared spectra. Optics Express, 2017, 25, 2928.	3.4	8
171	A closer look into the distance dependence of vibrational energy transfer on surfaces using 2D IR spectroscopy. Journal of Chemical Physics, 2020, 153, 154706.	3.0	8
172	Coherence and control of molecular dynamics in rare gas matrices. , 2007, , 257-385.		7
173	Transient 2D-IR Spectroscopy: Towards a Molecular Movie. Chimia, 2007, 61, 45-46.	0.6	7
174	Rotational dynamics of nitrous acid (HONO) in Kr matrix. Journal of Chemical Physics, 2008, 129, 044507.	3.0	7
175	A surprisingly simple correlation between the classical and quantum structural networks in liquid water. Journal of Chemical Physics, 2017, 147, 064506.	3.0	7
176	Mechanistic insights into photocatalysis and over two days of stable H₂ generation in electrocatalysis by a molecular cobalt catalyst immobilized on TiO₂. Catalysis Science and Technology, 2020, 10, 2549-2560.	4.1	7
177	Needles in a haystack: H-bonding in an optogenetic protein observed with isotope labeling and 2D-IR spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 10267-10273.	2.8	7
178	2D Ramanâ€"THz Spectroscopy of Binary CHBr₃â€"MeOH Solvent Mixture. Journal of Physical Chemistry B, 2021, 125, 581-586.	2.6	7
179	The OH stretch vibration of liquid water reveals hydrogen-bond clusters. Physical Chemistry Chemical Physics, 2010, 12, 11263.	2.8	6
180	Protein Structural Memory Influences Ligand Binding Mode(s) and Unbinding Rates. Journal of Chemical Theory and Computation, 2016, 12, 1393-1399.	5.3	6

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