Tahei Tahara

List of Publications by Year
in descending order

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246	10,334	28274	42399
papers	citations	55 h-index	92 g-index

257	257	257	7201
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct evidence for orientational flip-flop of water molecules at charged interfaces: A heterodyne-detected vibrational sum frequency generation study. Journal of Chemical Physics, 2009, 130, 204704.	3.0	432
2	Femtosecond Time-Resolved Fluorescence Study of Photoisomerization oftrans-Azobenzene. Journal of Physical Chemistry A, 2001, 105, 8123-8129.	2.5	272
3	Structure and Dynamics of Interfacial Water Studied by Heterodyne-Detected Vibrational Sum-Frequency Generation. Annual Review of Physical Chemistry, 2013, 64, 579-603.	10.8	264
4	Three Distinct Water Structures at a Zwitterionic Lipid/Water Interface Revealed by Heterodyne-Detected Vibrational Sum Frequency Generation. Journal of the American Chemical Society, 2012, 134, 7842-7850.	13.7	250
5	Unified Molecular View of the Air/Water Interface Based on Experimental and Theoretical Ï‡⁽²⁾ Spectra of an Isotopically Diluted Water Surface. Journal of the American Chemical Society, 2011, 133, 16875-16880.	13.7	245
6	Real-Time Observation of the Photoinduced Structural Change of Bis(2,9-dimethyl-1,10-phenanthroline)copper(I) by Femtosecond Fluorescence Spectroscopy:Â A Realistic Potential Curve of the Jahnâ˜Teller Distortion. Journal of the American Chemical Society, 2007, 129, 5248-5256.	13.7	234
7	Structure and Orientation of Water at Charged Lipid Monolayer/Water Interfaces Probed by Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of the American Chemical Society, 2010, 132, 10656-10657.	13.7	212
8	Spectroscopic Tracking of Structural Evolution in Ultrafast Stilbene Photoisomerization. Science, 2008, 322, 1073-1077.	12.6	206
9	Development of an Azo-Based Photosensitizer Activated under Mild Hypoxia for Photodynamic Therapy. Journal of the American Chemical Society, 2017, 139, 13713-13719.	13.7	206
10	Picosecond Time-Resolved Raman Study of trans-Azobenzene. Journal of Physical Chemistry A, 2000, 104, 4203-4210.	2.5	200
11	Coherent Nuclear Dynamics in Ultrafast Photoinduced Structural Change of Bis(diimine)copper(I) Complex. Journal of the American Chemical Society, 2011, 133, 7728-7736.	13.7	194
12	Ultrafast Excited-State Dynamics of Copper(I) Complexes. Accounts of Chemical Research, 2015, 48, 782-791.	15.6	193
13	Femtosecond Ultravioletâ˜Visible Fluorescence Study of the Excited-State Proton-Transfer Reaction of 7-Azaindole Dimer. Journal of Physical Chemistry A, 1998, 102, 7740-7753.	2.5	186
14	Preparation of Highly Fluorescent Hostâ€“Guest Complexes with Tunable Color upon Encapsulation. Journal of the American Chemical Society, 2015, 137, 9266-9269.	13.7	183
15	Excited-State Dynamics in the Green Fluorescent Protein Chromophore. Journal of Physical Chemistry B, 2004, 108, 1102-1108.	2.6	169
16	Heterodyne-detected electronic sum frequency generation: â€œUpâ€•versus â€œdownâ€•alignment of interfacial molecules. Journal of Chemical Physics, 2008, 129, 101102.	3.0	167
17	Counterion Effect on Interfacial Water at Charged Interfaces and Its Relevance to the Hofmeister Series. Journal of the American Chemical Society, 2014, 136, 6155-6158.	13.7	159
18	Ultrafast Dynamics at Water Interfaces Studied by Vibrational Sum Frequency Generation Spectroscopy. Chemical Reviews, 2017, 117, 10665-10693.	47.7	153

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19	Water Hydrogen Bond Structure near Highly Charged Interfaces Is Not Like Ice. Journal of the American Chemical Society, 2010, 132, 6867-6869.	13.7	152
20	Coherent Nuclear Wavepacket Motions in Ultrafast Excited-State Intramolecular Proton Transfer:â€‰Sub-30-fs Resolved Pumpâ^'Probe Absorption Spectroscopy of 10-Hydroxybenzo[h]quinoline in Solution. Journal of Physical Chemistry A, 2005, 109, 10199-10207.	2.5	151
21	Accurate determination of complex Ï‡(2) spectrum of the air/water interface. Journal of Chemical Physics, 2015, 143, 124707.	3.0	149
22	The answer to concerted versus step-wise controversy for the double proton transfer mechanism of 7-azaindole dimer in solution. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5285-5290.	7.1	141
23	Water Structure at the Buried Silica/Aqueous Interface Studied by Heterodyne-Detected Vibrational Sum-Frequency Generation. Journal of Physical Chemistry C, 2016, 120, 9357-9363.	3.1	115
24	Ultrafast vibrational dynamics of water at a charged interface revealed by two-dimensional heterodyne-detected vibrational sum frequency generation. Journal of Chemical Physics, 2012, 137, 094706.	3.0	110
25	ON/OFF Red Emission from Azaporphine in a Coordination Cage in Water. Journal of the American Chemical Society, 2009, 131, 12526-12527.	13.7	94
26	Probing the early stages of photoreception in photoactive yellow protein with ultrafast time-domain Raman spectroscopy. Nature Chemistry, 2017, 9, 660-666.	13.6	90
27	Femtosecond/Picosecond Time-Resolved Spectroscopy oftrans- Azobenzene: Isomerization Mechanism Following S2(Ï€Ï€*) â†•S0Photoexcitation. Bulletin of the Chemical Society of Japan, 2002, 75, 1031-1040.	3.2	89
28	The photochemical reaction of phenol becomes ultrafast at the airâ€“water interface. Nature Chemistry, 2021, 13, 306-311.	13.6	86
29	Excitation-wavelength dependence of the femtosecond fluorescence dynamics of 7-azaindole dimer: further evidence for the concerted double proton transfer in solution. Chemical Physics Letters, 2001, 347, 108-114.	2.6	85
30	Observation of dimer excited-state dynamics in the double proton transfer reaction of 7-azaindole by femtosecond fluorescence up-conversion. Chemical Physics Letters, 1997, 277, 340-346.	2.6	84
31	Ultrafast Structural Evolution of Photoactive Yellow Protein Chromophore Revealed by Ultraviolet Resonance Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2012, 3, 2025-2029.	4.6	84
32	Time-Resolved Impulsive Stimulated Raman Scattering from Excited-State Polyatomic Molecules in Solution. Journal of Physical Chemistry A, 2003, 107, 494-500.	2.5	79
33	2D heterodyne-detected sum frequency generation study on the ultrafast vibrational dynamics of H2O and HOD water at charged interfaces. Journal of Chemical Physics, 2015, 142, 212431.	3.0	78
34	Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. 1. Principle. Journal of Physical Chemistry B, 2013, 117, 11414-11422.	2.6	76
35	The Topmost Water Structure at a Charged Silica/Aqueous Interface Revealed by Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4109-4114.	4.6	76
36	Ultrafast Fluorescence Study on the Excited Singlet-State Dynamics of all-trans-Retinal. Journal of Physical Chemistry A, 1997, 101, 3052-3060.	2.5	72

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37	Microsecond protein dynamics observed at the single-molecule level. Nature Communications, 2015, 6, 7685.	12.8	72
38	Femtosecond Hydrogen Bond Dynamics of Bulkâ€like and Bound Water at Positively and Negatively Charged Lipid Interfaces Revealed by 2D HDâ€VSFG Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 10621-10625.	13.8	70
39	Acidâ^'Base Equilibrium at an Aqueous Interface: pH Spectrometry by Heterodyne-Detected Electronic Sum Frequency Generation. Journal of Physical Chemistry C, 2011, 115, 4168-4173.	3.1	69
40	Communication: Ultrafast vibrational dynamics of hydrogen bond network terminated at the air/water interface: A two-dimensional heterodyne-detected vibrational sum frequency generation study. Journal of Chemical Physics, 2013, 139, 161101.	3.0	68
41	Substituent effect on the photoinduced structural change of Cu(i) complexes observed by femtosecond emission spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 4143.	2.8	67
42	Phase-stabilized optical heterodyne detection of impulsive stimulated Raman scattering. Chemical Physics Letters, 1997, 264, 636-642.	2.6	66
43	Electric quadrupole contribution to the nonresonant background of sum frequency generation at air/liquid interfaces. Journal of Chemical Physics, 2011, 134, 184705.	3.0	66
44	Femtosecond time-resolved impulsive stimulated Raman spectroscopy using sub-7-fs pulses: Apparatus and applications. Review of Scientific Instruments, 2016, 87, 043107.	1.3	66
45	Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. 2. Application. Journal of Physical Chemistry B, 2013, 117, 11423-11432.	2.6	64
46	Precise Electronic Ï‡(2)Spectra of Molecules Adsorbed at an Interface Measured by Multiplex Sum Frequency Generation. Journal of Physical Chemistry B, 2004, 108, 19079-19082.	2.6	63
47	Role of Coherent Low-Frequency Motion in Excited-State Proton Transfer of Green Fluorescent Protein Studied by Time-Resolved Impulsive Stimulated Raman Spectroscopy. Journal of the American Chemical Society, 2016, 138, 3942-3945.	13.7	63
48	Picosecond Raman Spectroscopy Using a Streak Camera. Applied Spectroscopy, 1993, 47, 391-398.	2.2	61
49	A 40-fs time-resolved absorption study on cis-stilbene in solution: observation of wavepacket motion on the reactive excited state. Chemical Physics Letters, 2004, 398, 400-406.	2.6	61
50	Communication: Quantitative estimate of the water surface pH using heterodyne-detected electronic sum frequency generation. Journal of Chemical Physics, 2012, 137, 151101.	3.0	61
51	Energy Transfer in a Mechanically Trapped Exciplex. Journal of the American Chemical Society, 2009, 131, 9478-9479.	13.7	60
52	Femtosecond study of solvation dynamics of DCM in micelles. Chemical Physics Letters, 2002, 359, 77-82.	2.6	59
53	Mosaic of Water Orientation Structures at a Neutral Zwitterionic Lipid/Water Interface Revealed by Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2014, 5, 4343-4348.	4.6	59
54	Transient resonance Raman spectra of benzophenone and its four isotopic analogues in the lowest excited triplet state. The Journal of Physical Chemistry, 1987, 91, 5875-5880.	2.9	57

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55	Ultrafast excited-state proton transfer dynamics of 1,8-dihydroxyanthraquinone (chrysazin) studied by femtosecond time-resolved fluorescence spectroscopy. Chemical Physics Letters, 2000, 330, 83-90.	2.6	57
56	Vibrational coherence of S1trans-stilbene in solution observed by 40-fs-resolved absorption spectroscopy: comparison of the low-frequency vibration appearing in the frequency-domain and time-domain spectroscopies. Chemical Physics Letters, 2000, 326, 430-438.	2.6	57
57	Ultrafast fluorescence of the chromophore of the green fluorescent protein in alcohol solutions. Chemical Physics Letters, 2002, 358, 495-501.	2.6	56
58	Demonstration of a Light-Driven SO₄^{2â€“} Transporter and Its Spectroscopic Characteristics. Journal of the American Chemical Society, 2017, 139, 4376-4389.	13.7	56
59	Concatenation of Cyan and Yellow Fluorescent Proteins for Efficient Resonance Energy Transfer. Biochemistry, 2006, 45, 6267-6271.	2.5	55
60	Ultrafast Vibrational Dynamics of a Charged Aqueous Interface by Femtosecond Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation. Bulletin of the Chemical Society of Japan, 2012, 85, 758-760.	3.2	54
61	Femtosecond absorption study of photodissociation of diphenylcyclopropenone in solution:â€‚Reaction dynamics and coherent nuclear motion. Journal of Chemical Physics, 2004, 120, 4768-4776.	3.0	53
62	Bend Vibration of Surface Water Investigated by Heterodyne-Detected Sum Frequency Generation and Theoretical Study: Dominant Role of Quadrupole. Journal of Physical Chemistry Letters, 2016, 7, 2597-2601.	4.6	53
63	Vibronic Relaxation of Polyatomic Molecule in Nonpolar Solvent:Â Femtosecond Anisotropy/Intensity Measurements of the Snand S1Fluorescence of Tetracene. Journal of Physical Chemistry A, 1999, 103, 4808-4814.	2.5	52
64	Real-Time Observation of Tight Auâ€“Au Bond Formation and Relevant Coherent Motion upon Photoexcitation of [Au(CN)2â€“] Oligomers. Journal of the American Chemical Society, 2013, 135, 538-541.	13.7	52
65	Evaluation of pH at Charged Lipid/Water Interfaces by Heterodyne-Detected Electronic Sum Frequency Generation. Journal of Physical Chemistry Letters, 2014, 5, 762-766.	4.6	52
66	Ultrafast Photoreaction Dynamics of a Light-Driven Sodium-Ion-Pumping Retinal Protein from Krokinobacter eikastus Revealed by Femtosecond Time-Resolved Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2015, 6, 4481-4486.	4.6	51
67	Exploration of the Correlation between Solvation Dynamics and Internal Dynamics of a Protein. Biochemistry, 2011, 50, 397-408.	2.5	49
68	Partially Hydrated Electrons at the Air/Water Interface Observed by UV-Excited Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of the American Chemical Society, 2016, 138, 7551-7557.	13.7	48
69	Controlling the S₁ Energy Profile by Tuning Excited-State Aromaticity. Journal of the American Chemical Society, 2020, 142, 14985-14992.	13.7	48
70	Hidden Electronic Excited State of Enhanced Green Fluorescent Protein. Journal of Physical Chemistry B, 2008, 112, 2761-2763.	2.6	47
71	Femtosecond time-resolved electronic sum-frequency generation spectroscopy: A new method to investigate ultrafast dynamics at liquid interfaces. Journal of Chemical Physics, 2008, 128, 114715.	3.0	47
72	Vibrational Sum Frequency Generation by the Quadrupolar Mechanism at the Nonpolar Benzene/Air Interface. Journal of Physical Chemistry Letters, 2013, 4, 1654-1658.	4.6	47

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73	Efficient Spectral Diffusion at the Air/Water Interface Revealed by Femtosecond Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 1811-1815.	4.6	45
74	Fifth-order time-domain Raman spectroscopy of photoactive yellow protein for visualizing vibrational coupling in its excited state. Science Advances, 2019, 5, eaau4490.	10.3	42
75	Ultrafast Pumpâ^'Probe Study of the Primary Photoreaction Process in pharaonis Halorhodopsin: Halide Ion Dependence and Isomerization Dynamics. Journal of Physical Chemistry B, 2008, 112, 12795-12800.	2.6	41
76	The substituent effect on the MLCT excited state dynamics of Cu(<scp>i</scp>) complexes studied by femtosecond time-resolved absorption and observation of coherent nuclear wavepacket motion. Physical Chemistry Chemical Physics, 2015, 17, 2067-2077.	2.8	41
77	Picosecond timeâ€resolved multiplex coherent antiâ€Stokes Raman scattering spectroscopy by using a streak camera: Isomerization dynamics of allâ€trans and 9â€cis retinal in the lowest excited triplet state. Journal of Chemical Physics, 1994, 100, 786-796.	3.0	40
78	Novel Resonance Raman Enhancement of Local Structure around Solvated Electrons in Water. Journal of Physical Chemistry A, 2001, 105, 8823-8826.	2.5	40
79	Ultrafast dynamics of malachite green at the air/water interface studied by femtosecond time-resolved electronic sum frequency generation (TR-ESFG): an indicator for local viscosity. Faraday Discussions, 0, 145, 411-428.	3.2	40
80	Cooperative Hydrogen-Bond Dynamics at a Zwitterionic Lipid/Water Interface Revealed by 2D HD-VSFG Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 5160-5165.	4.6	40
81	Development of Electronic Sum Frequency Generation Spectroscopies and Their Application to Liquid Interfaces. Journal of Physical Chemistry C, 2015, 119, 14815-14828.	3.1	39
82	Competition between Energy and Proton Transfer in Ultrafast Excited-State Dynamics of an Oligomeric Fluorescent Protein Red Kaede. Journal of Physical Chemistry B, 2006, 110, 22853-22860.	2.6	38
83	Transient resonance Raman study on the lowest excited triplet states of 4-phenylbenzophenone and its related compounds. The Journal of Physical Chemistry, 1990, 94, 170-178.	2.9	37
84	Pronounced Non-Condon Effect as the Origin of the Quantum Beat Observed in the Time-Resolved Absorption Signal from Excited-State cis-Stilbene. Journal of Physical Chemistry A, 2008, 112, 2219-2227.	2.5	37
85	Two-photon absorption spectrum of all-trans retinal. Chemical Physics Letters, 2003, 376, 237-243.	2.6	35
86	Determining electronic spectra at interfaces by electronic sum frequency generation: One- and two-photon double resonant oxazine 750 at the air/water interface. Journal of Chemical Physics, 2006, 125, 194711.	3.0	35
87	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visibleâ€Light Absorption. Angewandte Chemie - International Edition, 2020, 59, 16430-16435.	13.8	35
88	Structure at the air/water interface in the presence of phenol: a study using heterodyne-detected vibrational sum frequency generation and molecular dynamics simulation. Physical Chemistry Chemical Physics, 2018, 20, 3002-3009.	2.8	34
89	Protein Dynamics Preceding Photoisomerization of the Retinal Chromophore in Bacteriorhodopsin Revealed by Deep-UV Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 5422-5427.	4.6	34
90	Observation of Resonance Hyper-Raman Scattering of all-trans-Retinal. Journal of Physical Chemistry A, 2002, 106, 3599-3604.	2.5	33

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91	Interface-Specific Ï‡(4)Coherent Raman Spectroscopy in the Frequency Domain. Journal of Physical Chemistry B, 2005, 109, 24211-24214.	2.6	33
92	Different Molecules Experience Different Polarities at the Air/Water Interface. Angewandte Chemie - International Edition, 2009, 48, 6439-6442.	13.8	33
93	Development of an Azoreductase-based Reporter System with Synthetic Fluorogenic Substrates. ACS Chemical Biology, 2017, 12, 558-563.	3.4	33
94	Picosecond time-resolved fluorescence study of all-trans retinal. The existence of two fluorescent singlet excited states. Chemical Physics Letters, 1995, 234, 275-280.	2.6	31
95	Picosecond Time-Resolved Resonance Raman Study of the Solvated Electron in Water. Journal of Physical Chemistry A, 2003, 107, 2411-2421.	2.5	31
96	Formation and Dissociation of Rhodamine 800 Dimers in Water:Â Steady-State and Ultrafast Spectroscopic Study. Journal of Physical Chemistry A, 2006, 110, 2601-2606.	2.5	31
97	Tracking of the Nuclear Wavepacket Motion in Cyanine Photoisomerization by Ultrafast Pumpâ€“Dumpâ€“Probe Spectroscopy. Journal of the American Chemical Society, 2011, 133, 8205-8210.	13.7	31
98	Femtosecond fluorescence study of the reaction pathways and nature of the reactive S1 state of cis-stilbene. Physical Chemistry Chemical Physics, 2012, 14, 6225.	2.8	31
99	Tracking Ultrafast Structural Dynamics by Time-Domain Raman Spectroscopy. Journal of the American Chemical Society, 2021, 143, 9699-9717.	13.7	31
100	Time-Resolved Impulsive Stimulated Raman Studies of 1,1â€˜-Binaphthyl in the Excited State:Â Low-Frequency Vibrations and Conformational Relaxation. Journal of Physical Chemistry A, 2004, 108, 5938-5943.	2.5	30
101	Resolving Inhomogeneity Using Lifetime-Weighted Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 12383-12391.	2.6	30
102	Interfacial water in the vicinity of a positively charged interface studied by steady-state and time-resolved heterodyne-detected vibrational sum frequency generation. Journal of Chemical Physics, 2014, 141, 18C527.	3.0	30
103	Change of the isoelectric point of hemoglobin at the air/water interface probed by the orientational flip-flop of water molecules. Physical Chemistry Chemical Physics, 2017, 19, 10292-10300.	2.8	30
104	Spectroscopic Study of Proton-Transfer Mechanism of Inward Proton-Pump Rhodopsin, Parvularcula oceani Xenorhodopsin. Journal of Physical Chemistry B, 2018, 122, 6453-6461.	2.6	30
105	Tracking Photoinduced Auâ€“Au Bond Formation through Transient Terahertz Vibrations Observed by Femtosecond Time-Domain Raman Spectroscopy. Journal of the American Chemical Society, 2019, 141, 19296-19303.	13.7	30
106	Femtosecond Fluorescence Dynamics Imaging Using a Fluorescence Up-Conversion Microscope. Journal of Physical Chemistry B, 2005, 109, 15327-15331.	2.6	28
107	New Insight into the Surface Denaturation of Proteins: Electronic Sum Frequency Generation Study of Cytochrome c at Water Interfaces. Journal of Physical Chemistry B, 2008, 112, 13473-13475.	2.6	28
108	Signaling-State Formation Mechanism of a BLUF Protein PapB from the Purple BacteriumRhodopseudomonas palustrisStudied by Femtosecond Time-Resolved Absorption Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 14761-14773.	2.6	28

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109	Origin of the Reactive and Nonreactive Excited States in the Primary Reaction of Rhodopsins: pH Dependence of Femtosecond Absorption of Light-Driven Sodium Ion Pump Rhodopsin KR2. Journal of Physical Chemistry B, 2018, 122, 4784-4792.	2.6	28
110	UV-excited transient raman spectra and the co stretching frequencies of the lowest excited triplet state of benzophenone. Chemical Physics Letters, 1988, 152, 135-139.	2.6	27
111	Transient Raman studies on the structure of the chloranil-alkylbenzene triplet charge-transfer complexes. The Journal of Physical Chemistry, 1992, 96, 8252-8259.	2.9	27
112	Femtosecond Fluorescence Up-Conversion Microscopy:Â Exciton Dynamics in Î±-Perylene Microcrystal. Journal of Physical Chemistry B, 2003, 107, 5120-5122.	2.6	27
113	Molecules at the Air/Water Interface Experience a More Inhomogeneous Solvation Environment than in Bulk Solvents: A Quantitative Band Shape Analysis of Interfacial Electronic Spectra Obtained by HD-ESFG. Journal of Physical Chemistry C, 2011, 115, 3083-3089.	3.1	27
114	Ab Initio Molecular Dynamics Study of the Photoreaction of 1,1â€²-Dimethylstilbene upon S₀ â†' S₁ Excitation. Journal of Physical Chemistry A, 2016, 120, 8804-8812.	2.5	27
115	Reorientation-induced relaxation of free OH at the air/water interface revealed by ultrafast heterodyne-detected nonlinear spectroscopy. Nature Communications, 2020, 11, 5344.	12.8	27
116	Coherent vibration and ultrafast dynamics upon bond formation in excited dimers of an Au(i) complex. Physical Chemistry Chemical Physics, 2016, 18, 5103-5107.	2.8	26
117	Transient Raman spectra and structure of the â€œtwistedâ€•excited singlet state of tetraphenylethylene. Chemical Physics Letters, 1994, 217, 369-374.	2.6	25
118	Effect of Frequency-Dependent Fresnel Factor on the Vibrational Sum Frequency Generation Spectra for Liquid/Solid Interfaces. Journal of Physical Chemistry C, 2019, 123, 15665-15673.	3.1	25
119	Relaxation Dynamics of the Hydrated Electron:Â Femtosecond Time-Resolved Resonance Raman and Luminescence Study. Journal of Physical Chemistry A, 2005, 109, 5257-5265.	2.5	24
120	Physisorption Gives Narrower Orientational Distribution than Chemisorption on a Glass Surface: A Polarization-Sensitive Linear and Nonlinear Optical Study. Journal of Physical Chemistry Letters, 2010, 1, 2662-2665.	4.6	24
121	Ultrafast Dynamics of Heliorhodopsins. Journal of Physical Chemistry B, 2019, 123, 2507-2512.	2.6	24
122	Ï‡⁽⁴⁾ Raman Spectroscopy for Buried Water Interfaces. Angewandte Chemie - International Edition, 2007, 46, 7609-7612.	13.8	23
123	â€œHalf-hydrationâ€•at the air/water interface revealed by heterodyne-detected electronic sum frequency generation spectroscopy, polarization second harmonic generation, and molecular dynamics simulation. Journal of Chemical Physics, 2010, 132, 144701.	3.0	23
124	In situ observation of the potential-dependent structure of an electrolyte/electrode interface by heterodyne-detected vibrational sum frequency generation. Physical Chemistry Chemical Physics, 2020, 22, 2580-2589.	2.8	23
125	Extracting decay curves of the correlated fluorescence photons measured in fluorescence correlation spectroscopy. Chemical Physics Letters, 2012, 519-520, 130-133.	2.6	22
126	Dissociation dynamics of Ar+n (n=3â€“16) in collision with He and Ne. Journal of Chemical Physics, 1994, 101, 6625-6631.	3.0	21

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127	Comment on â€œPhase-sensitive sum frequency vibrational spectroscopic study of air/water interfaces: H2O, D2O, and diluted isotopic mixturesâ€•[J. Chem. Phys. 150, 144701 (2019)]. Journal of Chemical Physics, 2020, 152, 237101.	3.0	21
128	Picosecond Time-Resolved Resonance Raman Study of the Photoisomerization of Retinal. Journal of Physical Chemistry B, 2000, 104, 9288-9300.	2.6	20
129	The Early Steps in the Photocycle of a Photosensor Protein Sensory Rhodopsin I from Salinibacter ruber. Journal of Physical Chemistry B, 2014, 118, 1510-1518.	2.6	20
130	Highly Heterogeneous Nature of the Native and Unfolded States of the B Domain of Protein A Revealed by Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. Journal of Physical Chemistry B, 2017, 121, 5463-5473.	2.6	20
131	Resolving the Controversy over Dipole versus Quadrupole Mechanism of Bend Vibration of Water in Vibrational Sum Frequency Generation Spectra. Journal of Physical Chemistry Letters, 2020, 11, 9123-9130.	4.6	20
132	Picosecond time-resolved imaging by nonscanning fluorescence Kerr gate microscope. Applied Physics Letters, 2005, 87, 131105.	3.3	19
133	Infrared-induced coherent vibration of a hydrogen-bonded system: Effects of mechanical and electrical anharmonic couplings. Journal of Chemical Physics, 2009, 131, 044512.	3.0	19
134	Molecular dynamics study of two-dimensional sum frequency generation spectra at vapor/water interface. Journal of Chemical Physics, 2015, 142, 212407.	3.0	19
135	Molecular mechanism of charge inversion revealed by polar orientation of interfacial water molecules: A heterodyne-detected vibrational sum frequency generation study. Journal of Chemical Physics, 2018, 149, 024703.	3.0	19
136	Revised steady-state fluorescence spectrum and nature of the reactive S1 state of cis-stilbene in solution. Chemical Physics Letters, 2008, 465, 212-215.	2.6	18
137	Ultrafast decay dynamics of photoexcited Cu(II)(TMpy-P4) in water solvent. Chemical Physics Letters, 1999, 309, 369-376.	2.6	17
138	Computational analysis of the quadrupole contribution in the second-harmonic generation spectroscopy for the water/vapor interface. Journal of Chemical Physics, 2013, 138, 064704.	3.0	17
139	Extraction of rapid kinetics from smFRET measurements using integrative detectors. Cell Reports Physical Science, 2021, 2, 100409.	5.6	17
140	Correction of the afterpulsing effect in fluorescence correlation spectroscopy using time symmetry analysis. Optics Express, 2015, 23, 32387.	3.4	16
141	Metalâ€“Metal Bond Formations in [Au(CN)₂^{â€“}]_n (n =) Tj ETQq1 1 0.784314 r Chemistry Letters, 2018, 9, 7085-7089.	4.6	16
142	Effect of hydrogen-bond on ultrafast spectral diffusion dynamics of water at charged monolayer interfaces. Journal of Chemical Physics, 2019, 150, 054705.	3.0	16
143	Why the Photochemical Reaction of Phenol Becomes Ultrafast at the Airâ€“Water Interface: The Effect of Surface Hydration. Journal of the American Chemical Society, 2022, 144, 6321-6325.	13.7	16
144	â€œUpâ€•versus â€œdownâ€•alignment and hydration structures of solutes at the air/water interface revealed by heterodyne-detected electronic sum frequency generation with classical molecular dynamics simulation. Journal of Chemical Physics, 2011, 135, 194705.	3.0	15

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145	Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State. Angewandte Chemie - International Edition, 2020, 59, 23154-23161.	13.8	15
146	Direct Photon-by-Photon Analysis of Time-Resolved Pulsed Excitation Data using Bayesian Nonparametrics. Cell Reports Physical Science, 2020, 1, 100234.	5.6	15
147	Preferred orientations of organic cations at lead-halide perovskite interfaces revealed using vibrational sum-frequency spectroscopy. Materials Horizons, 2020, 7, 1348-1357.	12.2	15
148	Construction of a timeâ€frequency twoâ€dimensional multiplex coherent antiâ€Stokes Raman scattering spectrometer having 15 ps time resolution. Review of Scientific Instruments, 1994, 65, 3332-3338.	1.3	13
149	Agreement between Experimentally and Theoretically Estimated Orientational Distributions of Solutes at the Air/Water Interface. Journal of Physical Chemistry C, 2013, 117, 8887-8891.	3.1	13
150	Comparative Studies of the Fluorescence Properties of Microbial Rhodopsins: Spontaneous Emission Versus Photointermediate Fluorescence. Journal of Physical Chemistry B, 2020, 124, 7361-7367.	2.6	13
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