Shoichi Yamaguchi

List of Publications by Year in descending order

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#	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	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
3	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
4	Unified Molecular View of the Air/Water Interface Based on Experimental and Theoretical χ ⁽²⁾ Spectra of an Isotopically Diluted Water Surface. Journal of the American Chemical Society, 2011, 133, 16875-16880.	13.7	245
5	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
6	Heterodyne-detected electronic sum frequency generation: "Up―versus "down―alignment of interfacial molecules. Journal of Chemical Physics, 2008, 129, 101102.	3.0	167
7	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
8	Ultrafast Dynamics at Water Interfaces Studied by Vibrational Sum Frequency Generation Spectroscopy. Chemical Reviews, 2017, 117, 10665-10693.	47.7	153
9	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
10	Accurate determination of complex <i>χ</i> (2) spectrum of the air/water interface. Journal of Chemical Physics, 2015, 143, 124707.	3.0	149
11	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
12	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
13	Development of single-channel heterodyne-detected sum frequency generation spectroscopy and its application to the water/vapor interface. Journal of Chemical Physics, 2015, 143, 034202.	3.0	107
14	Convenient Method of Measuring the Chirp Structure of Femtosecond White-Light Continuum Pulses. Applied Spectroscopy, 1995, 49, 1513-1515.	2.2	98
15	Exciton Dynamics in Poly(p-Pyridyl Vinylene). Physical Review Letters, 1996, 76, 1513-1516.	7.8	78
16	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
17	Femtosecond Hydrogen Bond Dynamics of Bulkâ€ŀike 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
18	Acidâ	3.1	69

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19	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
20	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
21	Weakly Hydrogen-Bonded Water Inside Charged Lipid Monolayer Observed with Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 2173-2180.	3.1	66
22	Femtosecond ultraviolet-visible absorption study of all-trans→13-cisâ‹9-cis photoisomerization of retinal. Journal of Chemical Physics, 1998, 109, 1397-1408.	3.0	63
23	Precise Electronic χ(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
24	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
25	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
26	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
27	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
28	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
29	Hidden Electronic Excited State of Enhanced Green Fluorescent Protein. Journal of Physical Chemistry B, 2008, 112, 2761-2763.	2.6	47
30	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
31	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
32	Construction of a transformâ€limited picosecond timeâ€resolved Raman spectrometer. Review of Scientific Instruments, 1993, 64, 2140-2146.	1.3	45
33	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
34	Ultrafast vibrational relaxation in photogenerated S1 α-terthiophene in solution by femtosecond time-resolved absorption/emission and picosecond time-resolved Raman spectroscopy. Chemical Physics Letters, 1994, 227, 255-260.	2.6	44
35	Primary Process of Photocarrier Generation in Y-Form Titanyl Phthalocyanine Studied by Electric-Field-Modulated Picosecond Time-Resolved Fluorescence Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 6835-6838.	2.6	42
36	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

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37	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
38	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
39	Two-photon absorption spectrum of all-trans retinal. Chemical Physics Letters, 2003, 376, 237-243.	2.6	35
40	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
41	Primary carrier-generation process in Y-form and phase I titanyl phthalocyanines. Chemical Physics Letters, 2000, 323, 35-42.	2.6	34
42	Interface-Specific χ(4)Coherent Raman Spectroscopy in the Frequency Domain. Journal of Physical Chemistry B, 2005, 109, 24211-24214.	2.6	33
43	Different Molecules Experience Different Polarities at the Air/Water Interface. Angewandte Chemie - International Edition, 2009, 48, 6439-6442.	13.8	33
44	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
45	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
46	Progress in phase-sensitive sum frequency generation spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 18253-18267.	2.8	30
47	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
48	Proton Order toward the Surface of Ice I _h Revealed by Heterodyne-Detected Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 5031-5034.	4.6	28
49	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
50	Vibrational Coupling at the Topmost Surface of Water Revealed by Heterodyne-Detected Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 1396-1401.	4.6	26
51	Two-Photon Infrared Resonance Can Enhance Coherent Raman Scattering. Physical Review Letters, 2018, 120, 063602.	7.8	25
52	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
53	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
54	Ultrafast Electronic Relaxation and Hydrogen-Bond-Formation/Dissociation Dynamics of Photoexcited All-trans Retinal in Protic Solvents. Journal of Physical Chemistry A, 2000, 104, 4272-4279.	2.5	23

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55	<i>;i>;;</i> ⁽⁴⁾ Raman Spectroscopy for Buried Water Interfaces. Angewandte Chemie - International Edition, 2007, 46, 7609-7612.	13.8	23
56	"Half-hydration―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
57	Comment on "Phase-sensitive sum frequency vibrational spectroscopic study of air/water interfaces: H2O, D2O, and diluted isotopic mixtures―[J. Chem. Phys. 150, 144701 (2019)]. Journal of Chemical Physics, 2020, 152, 237101.	3.0	21
58	Femtosecond time-resolved absorption spectroscopy of all-trans-retinal in hexane. Journal of Molecular Structure, 1996, 379, 87-92.	3.6	20
59	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
60	Novel interfaceâ€selective evenâ€order nonlinear spectroscopy. Laser and Photonics Reviews, 2008, 2, 74-82.	8.7	19
61	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
62	Perspective on sum frequency generation spectroscopy of ice surfaces and interfaces. Chemical Physics, 2019, 522, 199-210.	1.9	16
63	Heterodyne-Detected Sum Frequency Generation Spectroscopic Study of Weakly Hydrogen-Bonded Water at Charged Lipid Interfaces, Revisited. Journal of Physical Chemistry C, 2021, 125, 23483-23489.	3.1	16
64	"Up―versus "down―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
65	Comment on "Phase reference in phase-sensitive sum-frequency vibrational spectroscopy―[J. Chem. Phys. 144, 244711 (2016)]. Journal of Chemical Physics, 2016, 145, 167101.	3.0	15
66	Quantifying the Diffusion of Lipids in the Proximal/Distal Leaflets of a Supported Lipid Bilayer by Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 10315-10319.	2.6	15
67	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
68	Coherent acoustic phonons in a thin gold film probed by femtosecond surface plasmon resonance. Journal of Raman Spectroscopy, 2008, 39, 1703-1706.	2.5	12
69	Hydrogen order at the surface of ice Ih revealed by vibrational spectroscopy. Chemical Communications, 2020, 56, 4563-4566.	4.1	12
70	Quadrupolar mechanism for vibrational sum frequency generation at air/liquid interfaces: Theory and experiment. Journal of Chemical Physics, 2019, 151, 064701.	3.0	11
71	Effect of Water on Primary Photocarrier-Generation Process in Y-form Titanyl Phthalocyanine. Journal of Physical Chemistry B, 2000, 104, 9225-9229.	2.6	10
72	Spectroscopic determination of very low quantum yield of singlet oxygen formation photosensitized by industrial dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 142, 47-50.	3.9	10

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73	Femtosecond visible absorption study of excited-state dynamics of 9-cis retinal. Chemical Physics Letters, 1998, 287, 694-700.	2.6	9
74	Host to Guest Energy Transfer in a Self-assembled Supramolecular Nanocage Observed by Picosecond Fluorescence Quenching. Chemistry Letters, 2005, 34, 618-619.	1.3	9
75	Total Internal Reflection Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 5758-5764.	2.6	9
76	Observation of an optically forbidden state of C60 by nondegenerate two-photon absorption spectroscopy. Chemical Physics Letters, 2004, 390, 136-139.	2.6	8
77	Communication: Development of standing evanescent-wave fluorescence correlation spectroscopy and its application to the lateral diffusion of lipids in a supported lipid bilayer. Journal of Chemical Physics, 2017, 147, 041101.	3.0	8
78	Structure of water and polymer at the buried polymer/water interface unveiled using heterodyne-detected vibrational sum frequency generation. Physical Chemistry Chemical Physics, 2020, 22, 16527-16531.	2.8	8
79	DNA-Induced Reorganization of Water at Model Membrane Interfaces Investigated by Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Journal of Physical Chemistry B, 2022, 126, 840-846.	2.6	7
80	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, 2016, 128, 10779-10783.	2.0	6
81	Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy: Concepts and Applications. Molecules, 2018, 23, 2972.	3.8	6
82	Effect of electrostatic interaction on the leaflet-specific diffusion in a supported lipid bilayer revealed by fluorescence lifetime correlation analysis. Physical Chemistry Chemical Physics, 2020, 22, 1242-1249.	2.8	6
83	Raman spectroscopy of isotopically pure and diluted high―and lowâ€density amorphous ices. Journal of Raman Spectroscopy, 2022, 53, 1773-1784.	2.5	6
84	Local pH at the surface of hen egg white lysozyme. Chemical Physics Letters, 2018, 693, 165-169.	2.6	5
85	Reduction of glass-surface charge density slows the lipid diffusion in the proximal leaflet of a supported lipid bilayer. Journal of Chemical Physics, 2019, 151, 025102.	3.0	5
86	Leaflet-specific Lipid Diffusion Revealed by Fluorescence Lifetime Correlation Analyses. Chemistry Letters, 2020, 49, 1473-1480.	1.3	5
87	Anomalous effective polarity of an air/liquid-mixture interface: a heterodyne-detected electronic and vibrational sum frequency generation study. Physical Chemistry Chemical Physics, 2015, 17, 23720-23723.	2.8	4
88	Two Distinct Solvated Structures of Para-Nitroaniline in Acetonitrile and Their Dissociation and Reassociation Dynamics. Laser Chemistry, 1999, 19, 329-333.	0.5	2
89	Construction of Electric-Field-Modulated Picosecond Time-Resolved Fluorescence Spectrometer. Japanese Journal of Applied Physics, 2000, 39, 6107-6108.	1.5	1
90	Novel Interface-Selective Even-Order Nonlinear Spectroscopy. Review of Polarography, 2009, 55, 83-96.	0.1	1

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91	<title>Water effect on primary photocarrier generation process in Y-form titanyl phthalocyanine</title> . , 2000, 4110, 337.		0
92	New Interface-Selective Even-Order Nonlinear Spectroscopy. , 2007, , .		0
93	Fluorescence Mechanism of Fluorescent Proteins Studied by Advanced Molecular Spectroscopy Using Ultrashort Pulse Laser. The Review of Laser Engineering, 2009, 37, 734-738.	0.0	0
94	Title is missing!. Electrochemistry, 2014, 82, 766-770.	1.4	0
95	Ultrafast Vibrational Dynamics of Water Interfaces Revealed by Time-Resolved Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy. Hyomen Kagaku, 2014, 35, 662-667.	0.0	0
96	Femtosecond Ultrafast Water Dynamics at Charged Lipid Interfaces Revealed by 2D Heterodyne-Detected Vibrational Sum Frequency Generation. , 2016, , .		0
97	Multiplex Electronic Sum Frequency Generation Spectroscopy of Dye Molecules at the Air/Water Interface. , 2006, , 245-248.		0
98	Novel Interface-selective Even-order Nonlinear Spectroscopy. Hyomen Kagaku, 2007, 28, 682-687.	0.0	0
99	New Even-Order Nonlinear Spectroscopy to Study Soft Interfaces. Journal of the Spectroscopical Society of Japan, 2008, 57, 168-178.	0.0	0
100	Ultrafast vibrational dynamics of water at a zwitterionic lipid/water interface revealed by two-dimensional heterodyne-detected vibrational sum frequency generation (2D HD-VSFG). , 2014, , .		0