

Shuji Ye

List of Publications by Year in descending order

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68
papers

2,394
citations

236925

25
h-index

206112

48
g-index

68
all docs

68
docs citations

68
times ranked

2238
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface charge printing for programmed droplet transport. <i>Nature Materials</i> , 2019, 18, 936-941.	27.5	401
2	Orientation Determination of Protein Helical Secondary Structures Using Linear and Nonlinear Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12169-12180.	2.6	153
3	Accurate Determination of Interfacial Protein Secondary Structure by Combining Interfacial-Sensitive Amide I and Amide III Spectral Signals. <i>Journal of the American Chemical Society</i> , 2014, 136, 1206-1209.	13.7	106
4	Molecular Interactions between Magainin 2 and Model Membranes in Situ. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12358-12363.	2.6	105
5	In situ molecular level studies on membrane related peptides and proteins in real time using sum frequency generation vibrational spectroscopy. <i>Journal of Structural Biology</i> , 2009, 168, 61-77.	2.8	102
6	Antifouling and Antimicrobial Mechanism of Tethered Quaternary Ammonium Salts in a Cross-linked Poly(dimethylsiloxane) Matrix Studied Using Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2010, 26, 16455-16462.	3.5	91
7	Observing a Model Ion Channel Gating Action in Model Cell Membranes in Real Time in Situ: Membrane Potential Change Induced Alamethicin Orientation Change. <i>Journal of the American Chemical Society</i> , 2012, 134, 6237-6243.	13.7	88
8	Energy transfer rates and impact sensitivities of crystalline explosives. <i>Combustion and Flame</i> , 2003, 132, 240-246.	5.2	84
9	Interactions of Alamethicin with Model Cell Membranes Investigated Using Sum Frequency Generation Vibrational Spectroscopy in Real Time in Situ. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3334-3340.	2.6	82
10	Orientation Difference of Chemically Immobilized and Physically Adsorbed Biological Molecules on Polymers Detected at the Solid/Liquid Interfaces in Situ. <i>Langmuir</i> , 2010, 26, 6471-6477.	3.5	69
11	Misfolding of a Human Islet Amyloid Polypeptide at the Lipid Membrane Populates through β^2 -Sheet Conformers without Involving $1\pm$ -Helical Intermediates. <i>Journal of the American Chemical Society</i> , 2019, 141, 1941-1948.	13.7	58
12	Terahertz dielectric assay of solution phase protein binding. <i>Applied Physics Letters</i> , 2007, 90, 243901.	3.3	56
13	Conformational disorder of organic cations tunes the charge carrier mobility in two-dimensional organic-inorganic perovskites. <i>Nature Communications</i> , 2020, 11, 5481.	12.8	55
14	Theoretical Studies of Energy Transfer Rates of Secondary Explosives. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18515-18520.	2.6	51
15	Ultrafast Vibrational Dynamics of Membrane-Bound Peptides at the Lipid Bilayer/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12977-12981.	13.8	48
16	Probing Molecular-Level Surface Structures of Polyethersulfone/Pluronic F127 Blends Using Sum-Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2008, 24, 7939-7946.	3.5	45
17	Detection of Tethered Biocide Moiety Segregation to Silicone Surface Using Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2008, 24, 9686-9694.	3.5	44
18	Reorganization of hydrogen bond network makes strong polyelectrolyte brushes pH-responsive. <i>Science Advances</i> , 2016, 2, e1600579.	10.3	43

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19	Ultrafast energy relaxation dynamics of amide I vibrations coupled with protein-bound water molecules. <i>Nature Communications</i> , 2019, 10, 1010.	12.8	41
20	Single Lipid Bilayers Constructed on Polymer Cushion Studied by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7613-7620.	3.1	39
21	In Situ Molecular-Level Insights into the Interfacial Structure Changes of Membrane-Associated Prion Protein Fragment [¹¹⁸ â€“ ¹³⁵] Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2012, 28, 16979-16988.	3.5	34
22	Phosphate Ions Promoting Association between Peptide and Modeling Cell Membrane Revealed by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11095-11103.	3.1	33
23	Ordered Water Layer on the Macroscopically Hydrophobic Fluorinated Polymer Surface and Its Ultrafast Vibrational Dynamics. <i>Journal of the American Chemical Society</i> , 2021, 143, 13074-13081.	13.7	30
24	In Situ and Real-Time SFG Measurements Revealing Organization and Transport of Cholesterol Analogue 6-Ketocholestanol in a Cell Membrane. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 419-424.	4.6	28
25	An approach to compatible multiple nonlinear vibrational spectroscopy measurements using a commercial sum frequency generation system. <i>Analyst, The</i> , 2011, 136, 2489.	3.5	27
26	Specific Ion Interaction Dominates over Hydrophobic Matching Effects in Peptideâ€“Lipid Bilayer Interactions: The Case of Short Peptide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26190-26196.	3.1	27
27	Structure and Orientation of Interfacial Proteins Determined by Sum Frequency Generation Vibrational Spectroscopy. <i>Advances in Protein Chemistry and Structural Biology</i> , 2013, 93, 213-255.	2.3	27
28	Effect of Dehydration on the Interfacial Water Structure at a Charged Polymer Surface: Negligible $\ddagger^{(3)}$ Contribution to Sum Frequency Generation Signal. <i>Langmuir</i> , 2012, 28, 1374-1380.	3.5	25
29	Intermolecular Interactions at the Interface Quantified by Surface-Sensitive Second-Order Fermi Resonant Signals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16587-16595.	3.1	23
30	Amide III SFG Signals as a Sensitive Probe of Protein Folding at Cell Membrane Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15322-15328.	3.1	23
31	A Highly Sensitive Femtosecond Time-Resolved Sum Frequency Generation Vibrational Spectroscopy System with Simultaneous Measurement of Multiple Polarization Combinations. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 671-677.	1.3	23
32	Acidic Environment Significantly Alters Aggregation Pathway of Human Islet Amyloid Polypeptide at Negative Lipid Membrane. <i>Langmuir</i> , 2020, 36, 1530-1537.	3.5	22
33	Transport and Organization of Cholesterol in a Planar Solid-Supported Lipid Bilayer Depend on the Phospholipid Flip-Flop Rate. <i>Langmuir</i> , 2016, 32, 11681-11689.	3.5	20
34	Reversible Activation of pH-Responsive Cell-Penetrating Peptides in Model Cell Membrane Relies on the Nature of Lipid. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15181-15187.	3.1	18
35	Disentangling Sum-Frequency Generation Spectra of the Water Bending Mode at Charged Aqueous Interfaces. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7060-7067.	2.6	18
36	Vibron dynamics in RDX, \hat{I}^2 -HMX and Tetryl crystals. <i>Chemical Physics</i> , 2003, 293, 1-8.	1.9	17

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37	Amide I SFG Spectral Line Width Probes the Lipid-Peptide and Peptide-Peptide Interactions at Cell Membrane In Situ and in Real Time. <i>Langmuir</i> , 2018, 34, 7554-7560.	3.5	16
38	Influenza A M2 transmembrane domain tunes its conformational heterogeneity and structural plasticity in the lipid bilayer by forming loop structures. <i>Chemical Communications</i> , 2018, 54, 5903-5906.	4.1	16
39	Molecular-Level Insights into N-H Bond Rotation in the pH-Induced Interfacial Isomerization of 5-Octadecyloxy-2-(2-pyridylazo)phenol Monolayer Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16553-16560.	3.1	15
40	In situ examination of a charged amino acid-induced structural change in lipid bilayers by sum frequency generation vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5657-5665.	2.8	14
41	Unsaturated Lipid Accelerates Formation of Oligomeric β -Sheet Structure of GP41 Fusion Peptide in Model Cell Membrane. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5169-5176.	2.6	13
42	Observing Peptide-Induced Lipid Accumulation in a Single-Component Zwitterionic Lipid Bilayer. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28523-28529.	3.1	11
43	Methanol Perturbing Modeling Cell Membranes Investigated using Linear and Nonlinear Vibrational Spectroscopy. <i>Chinese Journal of Chemical Physics</i> , 2013, 26, 27-34.	1.3	10
44	Advanced experimental methods toward understanding biophysicochemical interactions of interfacial biomolecules by using sum frequency generation vibrational spectroscopy. <i>Science China Chemistry</i> , 2014, 57, 1646-1661.	8.2	10
45	Fermi Resonant Interaction of the Tailed Methyl Groups of Langmuir Monolayer at the Air/Water Interface during Phase Transition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25394-25400.	3.1	10
46	Analyzing the stability of second harmonic intensity provides a sensitive probe of the aggregating of conjugated molecules at the interface. <i>Journal of Molecular Liquids</i> , 2016, 219, 111-116.	4.9	10
47	Molecular interactions of organic molecules at the air/water interface investigated by sum frequency generation vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4488-4493.	2.8	10
48	Real-Time observation of protein transport across membranes by femtosecond sum frequency generation vibrational spectroscopy. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 523-528.	1.3	10
49	Intramolecular vibrational coupling in water molecules revealed by compatible multiple nonlinear vibrational spectroscopic measurements. <i>Analyst</i> , 2012, 137, 4981.	3.5	9
50	Homogeneous interfacial water structure favors realizing a low-friction coefficient state. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 324-333.	9.4	9
51	The molecular surface conformation of surface-tethered polyelectrolytes on PDMS surfaces. <i>Soft Matter</i> , 2010, , .	2.7	8
52	Interaction between Potassium Phosphate Buffer Solution and Modeling Cell Membrane Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 518-524.	1.3	8
53	The dehydration dynamics of a model cell membrane induced by cholesterol analogue 6-ketocholestanol investigated using sum frequency generation vibrational spectroscopy. <i>Science China Chemistry</i> , 2015, 58, 1176-1186.	8.2	8
54	Conformational Order of Alkyl Side Chain of Poly(3-alkylthiophene) Promotes Hole-Extraction Ability in Perovskite/Poly(3-alkylthiophene) Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11817-11823.	4.6	8

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55	Specific Ion Effects on Protein Thermal Aggregation from Dilute Solutions to Crowded Environments. <i>Langmuir</i> , 2018, 34, 4289-4297.	3.5	7
56	Ultrafast Vibrational Dynamics of Membrane-Bound Peptides at the Lipid Bilayer/Water Interface. <i>Angewandte Chemie</i> , 2017, 129, 13157-13161.	2.0	6
57	Film thickness and surface plasmon tune the contribution of SFG signals from buried interface and air surface. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 532-539.	1.3	6
58	Protein-water coupling tunes the anharmonicity of amide I modes in the interfacial membrane-bound proteins. <i>Journal of Chemical Physics</i> , 2022, 156, 105103.	3.0	5
59	Evidence for a Local Field Effect in Surface Plasmon-Enhanced Sum Frequency Generation Vibrational Spectra. <i>Langmuir</i> , 2022, 38, 6099-6105.	3.5	5
60	Hydration Effects on Energy Relaxation of Ferric Cytochrome C Films after Soret-Band Photoexcitation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15151-15157.	2.6	4
61	Absorption of low molecular weight solutes into polyurethane in supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2000, 77, 3162-3168.	2.6	2
62	Controlled-release polyurethane created by absorbing transition-metal acetate and benzyl carbinol. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1170-1173.	2.6	2
63	Directly monitoring the active sites of charge transfer in heterocycles <i>in situ</i> and in real time. <i>Chemical Communications</i> , 2019, 55, 541-544.	4.1	2
64	Observing Two-Dimensional Spontaneous Reaction between a Silicon Electrode and a LiPF ₆ -Based Electrolyte <i>In Situ</i> and in Real Time. <i>Journal of Physical Chemistry Letters</i> , 2022, , 3224-3229.	4.6	2
65	Protein Conformational Dynamics Measured With Terahertz Time Domain Spectroscopy. , 2006, , .		1
66	Ultrafast Carriers Dynamics in GaSb/Mn Random Alloys. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
67	Using terahertz spectroscopy as a protein binding assay. , 2006, 6080, 35.		0
68	Development of Tagless Biosensors for Detecting the Presence of Pathogens. , 0, , 123-134.		0