

Zhen Zhang

List of Publications by Year in descending order

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36
papers

1,514
citations

430874

18
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	C-H Stretching Vibrations of Methyl, Methylene and Methine Groups at the Vapor/Alcohol (n= 1-8) Interfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14118-14129.	2.6	357
2	Polarization and experimental configuration analyses of sum frequency generation vibrational spectra, structure, and orientational motion of the air/water interface. <i>Journal of Chemical Physics</i> , 2006, 124, 114705.	3.0	235
3	Ultrafast vibrational energy transfer at the water/air interface revealed by two-dimensional surface vibrational spectroscopy. <i>Nature Chemistry</i> , 2011, 3, 888-893.	13.6	177
4	Extreme surface propensity of halide ions in water. <i>Nature Communications</i> , 2014, 5, 4083.	12.8	97
5	Vibrational Spectra and Molecular Orientation with Experimental Configuration Analysis in Surface Sum Frequency Generation (SFG). <i>Journal of Physical Chemistry C</i> , 2007, 111, 8716-8725.	3.1	69
6	Determination of the two methyl group orientations at vapor/acetone interface with polarization null angle method in SFG vibrational spectroscopy. <i>Chemical Physics Letters</i> , 2005, 408, 284-289.	2.6	56
7	Spectral Interference and Molecular Conformation at Liquid Interface with Sum Frequency Generation Vibrational Spectroscopy (SFG-VS). <i>Journal of Physical Chemistry C</i> , 2007, 111, 8726-8738.	3.1	54
8	Orientation and Motion of Water Molecules at Air/Water Interface. <i>Chinese Journal of Chemical Physics</i> , 2006, 19, 20-24.	1.3	52
9	Identification of overlapping features in the sum frequency generation vibrational spectra of air/ethanol interface. <i>Chemical Physics Letters</i> , 2006, 423, 261-265.	2.6	49
10	Communication: Interfacial water structure revealed by ultrafast two-dimensional surface vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 021101.	3.0	47
11	Water penetration/accommodation and phase behaviour of the neutral langmuir monolayer at the air/water interface probed with sum frequency generation vibrational spectroscopy (SFG-VS). <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 991-1002.	2.8	36
12	Guanosine Assembly Enabled Gold Nanorods with Dual Thermo- and Photoswitchable Plasmonic Chiroptical Activity. <i>ACS Nano</i> , 2020, 14, 6087-6096.	14.6	35
13	Effect of Ca ²⁺ to Sphingomyelin Investigated by Sum Frequency Generation Vibrational Spectroscopy. <i>Biophysical Journal</i> , 2017, 112, 2173-2183.	0.5	32
14	Resolving Two Closely Overlapping $\hat{C}N$ Vibrations and Structure in the Langmuir Monolayer of the Long-Chain Nonadecanenitrile by Polarization Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2976-2987.	3.1	29
15	Spectral assignment and orientational analysis in a vibrational sum frequency generation study of DPPC monolayers at the air/water interface. <i>Journal of Chemical Physics</i> , 2016, 145, 244707.	3.0	29
16	Water in Contact with a Cationic Lipid Exhibits Bulklike Vibrational Dynamics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10069-10078.	2.6	26
17	Hydroxyl Groups on the Graphene Surfaces Facilitate Ice Nucleation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2458-2462.	4.6	24
18	Successive Adsorption of Cations and Anions of Water-1-Butyl-3-methylimidazolium Methylsulfate Binary Mixtures at the Air-Liquid Interface Studied by Sum Frequency Generation Vibrational Spectroscopy and Surface Tension Measurements. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12032-12041.	3.1	23

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19	Surface Charges at the CaF ₂ /Water Interface Allow Very Fast Intermolecular Vibrational Energy Transfer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13116-13121.	13.8	14
20	Surface of room temperature ionic liquid [bmim][PF ₆] studied by polarization- and experimental configuration-dependent sum frequency generation vibrational spectroscopy. <i>Science China Chemistry</i> , 2015, 58, 439-447.	8.2	10
21	Ordering effects of cholesterol on sphingomyelin monolayers investigated by high-resolution broadband sum-frequency generation vibrational spectroscopy. <i>Chinese Chemical Letters</i> , 2018, 29, 357-360.	9.0	10
22	Fabrication of Supramolecular Chirality from Achiral Molecules at the Liquid/Liquid Interface Studied by Second Harmonic Generation. <i>Langmuir</i> , 2018, 34, 139-146.	3.5	8
23	N ¹⁵ -H Chirality in Folded Peptide LK ₇ Is Governed by the C ¹³ -H Chirality. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1282-1290.	4.6	8
24	Circularly Polarized Luminescence and SFG Chiral Signals of Helical TPE Macrocycles. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3353-3359.	4.9	7
25	Metal Ion Mediation of Interfacial Chiral Supramolecular Formation of Amphiphilic Schiff Bases Studied by In Situ Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8179-8187.	2.6	6
26	In Situ Probe Supramolecular Self-Assembly Dynamics and Chirality Transfer Mechanism at Air-Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3523-3528.	4.6	6
27	Cooperative Action of Laser-Induced Thermal Effects and Ionic Coordination on the Order of TPPAO Porphyrin Derivatives Self-Assembled Interface Probed via Real-Time Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11798-11806.	3.1	4
28	One-Fold Anisotropy of Silver Chiral Nanoparticles Studied by Second-Harmonic Generation. <i>ACS Sensors</i> , 2021, 6, 454-460.	7.8	3
29	Mechanism by Which Cholesterol Induces Sphingomyelin Conformational Changes at an Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5481-5489.	2.6	3
30	Adsorption and Oxidation Dynamics of Disperse Orange 3 on a Polycrystalline Pt Electrode Studied by In Situ Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21625-21634.	3.1	2
31	Oberflächenladungen an der CaF ₂ -Wasser-Grenzfläche erlauben eine sehr schnelle intermolekulare Energieübertragung von Schwingungsenergie. <i>Angewandte Chemie</i> , 2020, 132, 13217-13222.	2.0	2
32	The interfacial structure of super-concentration LiNO ₃ aqueous electrolyte studied by second harmonic generation. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	2
33	Ultrafast dynamics of water at the water-air interface studied by femtosecond surface vibrational spectroscopy. <i>EPJ Web of Conferences</i> , 2013, 41, 06009.	0.3	1
34	In situ nonlinear optical spectroscopic study of the structural chirality in DPPC Langmuir monolayers at the air/water interface. <i>Journal of Chemical Physics</i> , 2022, 156, 094704.	3.0	1
35	Interfacial Water Structure in Langmuir Monolayer and Gibbs Layer Probed by Sum Frequency Generation Vibrational Spectroscopy. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1663-1666.	4.9	0
36	Si(111) electrode/electrolyte interfacial studied by in-situ second harmonic generation. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 554-560.	1.3	0