

Zhan Chen

List of Publications by Year in descending order

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323
papers

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10984

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docs citations

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times ranked

13741
citing authors

#	ARTICLE	IF	CITATIONS
1	STUDIES OF POLYMER SURFACES BY SUM FREQUENCY GENERATION VIBRATIONAL SPECTROSCOPY. Annual Review of Physical Chemistry, 2002, 53, 437-465.	10.8	516
2	Carboxymethyl cellulose/polyacrylamide composite hydrogel for cascaded treatment/reuse of heavy metal ions in wastewater. Journal of Hazardous Materials, 2019, 364, 28-38.	12.4	316
3	Molecular Chemical Structure on Poly(methyl methacrylate) (PMMA) Surface Studied by Sum Frequency Generation (SFG) Vibrational Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 12118-12125.	2.6	288
4	Carbon Dot-Based Platform for Simultaneous Bacterial Distinguishment and Antibacterial Applications. ACS Applied Materials & Interfaces, 2016, 8, 32170-32181.	8.0	285
5	Highly Sensitive and Selective Detection of Dopamine Using One-Pot Synthesized Highly Photoluminescent Silicon Nanoparticles. Analytical Chemistry, 2015, 87, 3360-3365.	6.5	237
6	Probing the Surface Hydration of Nonfouling Zwitterionic and PEG Materials in Contact with Proteins. ACS Applied Materials & Interfaces, 2015, 7, 16881-16888.	8.0	223
7	Enhanced Fluorescence of Gold Nanoclusters Composed of H ₄ AuCl ₄ and Histidine by Glutathione: Glutathione Detection and Selective Cancer Cell Imaging. Small, 2014, 10, 5170-5177.	10.0	197
8	Detection of chiral sum frequency generation vibrational spectra of proteins and peptides at interfaces in situ. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4978-4983.	7.1	180
9	Multiple Orientation of Melittin inside a Single Lipid Bilayer Determined by Combined Vibrational Spectroscopic Studies. Journal of the American Chemical Society, 2007, 129, 1420-1427.	13.7	178
10	Measuring Polymer Surface Ordering Differences in Air and Water by Sum Frequency Generation Vibrational Spectroscopy. Journal of the American Chemical Society, 2002, 124, 7016-7023.	13.7	176
11	Shape-Dependent Radiosensitization Effect of Gold Nanostructures in Cancer Radiotherapy: Comparison of Gold Nanoparticles, Nanospikes, and Nanorods. ACS Applied Materials & Interfaces, 2017, 9, 13037-13048.	8.0	175
12	Carbon quantum dots with intrinsic mitochondrial targeting ability for mitochondria-based theranostics. Nanoscale, 2017, 9, 10948-10960.	5.6	167
13	Molecular level studies on interfacial hydration of zwitterionic and other antifouling polymers in situ. Acta Biomaterialia, 2016, 40, 6-15.	8.3	155
14	Bacteria-derived fluorescent carbon dots for microbial live/dead differentiation. Nanoscale, 2017, 9, 2150-2161.	5.6	155
15	Orientation Determination of Protein Helical Secondary Structures Using Linear and Nonlinear Vibrational Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 12169-12180.	2.6	153
16	Quaternized Silicon Nanoparticles with Polarity-Sensitive Fluorescence for Selectively Imaging and Killing Gram-Positive Bacteria. Advanced Functional Materials, 2016, 26, 5958-5970.	14.9	150
17	Cholesterol-Assisted Bacterial Cell Surface Engineering for Photodynamic Inactivation of Gram-Positive and Gram-Negative Bacteria. ACS Applied Materials & Interfaces, 2017, 9, 15943-15951.	8.0	147
18	Different Surface-Restructuring Behaviors of Poly(methacrylate)s Detected by SFG in Water. Journal of the American Chemical Society, 2001, 123, 9470-9471.	13.7	146

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19	Orientation Determination of Interfacial β -Sheet Structures in Situ. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8291-8300.	2.6	144
20	Influence of Nanoparticle Shape, Size, and Surface Functionalization on Cellular Uptake. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6485-6498.	0.9	144
21	Detection of Amide I Signals of Interfacial Proteins in Situ Using SFG. <i>Journal of the American Chemical Society</i> , 2003, 125, 9914-9915.	13.7	140
22	SUM FREQUENCY GENERATION VIBRATIONAL SPECTROSCOPY STUDIES ON MOLECULAR CONFORMATION AND ORIENTATION OF BIOLOGICAL MOLECULES AT INTERFACES. <i>International Journal of Modern Physics B</i> , 2005, 19, 691-713.	2.0	139
23	Investigating buried polymer interfaces using sum frequency generation vibrational spectroscopy. <i>Progress in Polymer Science</i> , 2010, 35, 1376-1402.	24.7	139
24	Development of a Light-Controlled Nanoplatform for Direct Nuclear Delivery of Molecular and Nanoscale Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 4062-4070.	13.7	135
25	Sum Frequency Generation Vibrational Spectroscopy Studies on Protein Adsorption. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11666-11672.	2.6	127
26	SFG studies on interactions between antimicrobial peptides and supported lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1257-1273.	2.6	126
27	Conformational Changes of Fibrinogen after Adsorption. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22027-22035.	2.6	124
28	Enhanced Radiosensitization of Gold Nanospikes via Hyperthermia in Combined Cancer Radiation and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28480-28494.	8.0	124
29	One-Step Synthesis of Ultrasmall and Ultrabright Organosilica Nanodots with 100% Photoluminescence Quantum Yield: Long-Term Lysosome Imaging in Living, Fixed, and Permeabilized Cells. <i>Nano Letters</i> , 2018, 18, 1159-1167.	9.1	120
30	In Situ Probing of the Surface Hydration of Zwitterionic Polymer Brushes: Structural and Environmental Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15840-15845.	3.1	117
31	Molecular Orientation of Asphaltenes and PAH Model Compounds in Langmuir-Blodgett Films Using Sum Frequency Generation Spectroscopy. <i>Langmuir</i> , 2011, 27, 6049-6058.	3.5	116
32	Studying Polymer Surfaces and Interfaces with Sum Frequency Generation Vibrational Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 466-489.	6.5	115
33	Probing β -Helical and β -Sheet Structures of Peptides at Solid/Liquid Interfaces with SFG. <i>Langmuir</i> , 2005, 21, 2662-2664.	3.5	112
34	Synthesis of Ultrastable Copper Sulfide Nanoclusters via Trapping the Reaction Intermediate: Potential Anticancer and Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7082-7092.	8.0	111
35	Detection of Hydrophobic End Groups on Polymer Surfaces by Sum-Frequency Generation Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000, 122, 10615-10620.	13.7	110
36	Molecular Characterization of Polymer and Polymer Blend Surfaces. Combined Sum Frequency Generation Surface Vibrational Spectroscopy and Scanning Force Microscopy Studies. <i>Accounts of Chemical Research</i> , 1999, 32, 930-940.	15.6	107

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37	One-Step Synthesis of Superbright Water-Soluble Silicon Nanoparticles with Photoluminescence Quantum Yield Exceeding 80%. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500360.	3.7	107
38	Molecular Interactions between Magainin 2 and Model Membranes in Situ. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12358-12363.	2.6	105
39	Nanomaterials meet zebrafish: Toxicity evaluation and drug delivery applications. <i>Journal of Controlled Release</i> , 2019, 311-312, 301-318.	9.9	105
40	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
41	Molecular Interactions between Graphene and Biological Molecules. <i>Journal of the American Chemical Society</i> , 2017, 139, 1928-1936.	13.7	96
42	Engineering and Characterization of Peptides and Proteins at Surfaces and Interfaces: A Case Study in Surface-Sensitive Vibrational Spectroscopy. <i>Accounts of Chemical Research</i> , 2016, 49, 1149-1157.	15.6	94
43	Surface Restructuring Behavior of Various Types of Poly(dimethylsiloxane) in Water Detected by SFG. <i>Langmuir</i> , 2004, 20, 10186-10193.	3.5	93
44	Surface Structures of PDMS Incorporated with Quaternary Ammonium Salts Designed for Antibiofouling and Fouling Release Applications. <i>Langmuir</i> , 2013, 29, 2897-2905.	3.5	92
45	Action of Gold Nanospikes-Based Nanoradiosensitizers: Cellular Internalization, Radiotherapy, and Autophagy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31526-31542.	8.0	92
46	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
47	Surface hydration for antifouling and bio-adhesion. <i>Chemical Science</i> , 2020, 11, 10367-10377.	7.4	91
48	Real-Time Structural Investigation of a Lipid Bilayer during Its Interaction with Melittin Using Sum Frequency Generation Vibrational Spectroscopy. <i>Biophysical Journal</i> , 2007, 93, 866-875.	0.5	90
49	Immobilization of Amphiphilic Polycations by Catechol Functionality for Antimicrobial Coatings. <i>Langmuir</i> , 2011, 27, 4010-4019.	3.5	89
50	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
51	Solventless Adhesive Bonding Using Reactive Polymer Coatings. <i>Analytical Chemistry</i> , 2008, 80, 4119-4124.	6.5	87
52	Self-Assembled Exopolysaccharide Nanoparticles for Bioremediation and Green Synthesis of Noble Metal Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22808-22818.	8.0	86
53	Molecular Level Understanding of Adhesion Mechanisms at the Epoxy/Polymer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3730-3737.	8.0	85
54	Glutathione-Depleting Gold Nanoclusters for Enhanced Cancer Radiotherapy through Synergistic External and Internal Regulations. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10601-10606.	8.0	84

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55	Quantifying the Ordering of Adsorbed Proteins In Situ. Journal of Physical Chemistry B, 2008, 112, 2281-2290.	2.6	82
56	X-ray Photoelectron Spectroscopy Study of Counterion Incorporation in Poly(3,4-ethylenedioxythiophene). Journal of Physical Chemistry C, 2009, 113, 5585-5592.	3.1	82
57	Interactions of Alamethicin with Model Cell Membranes Investigated Using Sum Frequency Generation Vibrational Spectroscopy in Real Time in Situ. Journal of Physical Chemistry B, 2010, 114, 3334-3340.	2.6	82
58	Molecular Responses of Proteins at Different Interfacial Environments Detected by Sum Frequency Generation Vibrational Spectroscopy. Journal of the American Chemical Society, 2002, 124, 13302-13305.	13.7	80
59	Sum Frequency Generation Vibrational Spectroscopy Studies on Molecular Conformation of Liquid Polymers Poly(ethylene glycol) and Poly(propylene glycol) at Different Interfaces. Macromolecules, 2002, 35, 9130-9135.	4.8	80
60	Cell volume changes during apoptosis monitored in real time using digital holographic microscopy. Journal of Structural Biology, 2012, 178, 270-278.	2.8	80
61	Self-Assembled Rose Bengal-Exopolysaccharide Nanoparticles for Improved Photodynamic Inactivation of Bacteria by Enhancing Singlet Oxygen Generation Directly in the Solution. ACS Applied Materials & Interfaces, 2018, 10, 16715-16722.	8.0	79
62	Membrane Orientation of MSI-78 Measured by Sum Frequency Generation Vibrational Spectroscopy. Langmuir, 2011, 27, 7760-7767.	3.5	78
63	Elucidation of molecular structures at buried polymer interfaces and biological interfaces using sum frequency generation vibrational spectroscopy. Soft Matter, 2013, 9, 4738.	2.7	78
64	Hydrogel-based phototherapy for fighting cancer and bacterial infection. Science China Materials, 2017, 60, 487-503.	6.3	78
65	Strong Surface Hydration and Salt Resistant Mechanism of a New Nonfouling Zwitterionic Polymer Based on Protein Stabilizer TMAO. Journal of the American Chemical Society, 2021, 143, 16786-16795.	13.7	78
66	In Situ Investigation of Heterotrimeric G Protein α Subunit Binding and Orientation on Membrane Bilayers. Journal of the American Chemical Society, 2007, 129, 12658-12659.	13.7	77
67	Probing Molecular Structures of Polymer/Metal Interfaces by Sum Frequency Generation Vibrational Spectroscopy. Macromolecules, 2008, 41, 8770-8777.	4.8	77
68	Heterotrimeric G protein α subunit α subunits change orientation upon complex formation with G protein-coupled receptor kinase 2 (GRK2) on a model membrane. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E667-73.	7.1	77
69	Plasma membrane activatable polymeric nanotheranostics with self-enhanced light-triggered photosensitizer cellular influx for photodynamic cancer therapy. Journal of Controlled Release, 2017, 255, 231-241.	9.9	77
70	Bacteria-Derived Carbon Dots Inhibit Biofilm Formation of Escherichia coli without Affecting Cell Growth. Frontiers in Microbiology, 2018, 9, 259.	3.5	77
71	Interaction of fibrinogen with surfaces of end-group-modified polyurethanes: A surface-specific sum-frequency-generation vibrational spectroscopy study. Journal of Biomedical Materials Research Part B, 2002, 62, 254-264.	3.1	76
72	Vibrational Spectroscopic Studies on Fibrinogen Adsorption at Polystyrene/Protein Solution Interfaces: A Hydrophobic Side Chain and Secondary Structure Changes. Journal of Physical Chemistry B, 2006, 110, 5017-5024.	2.6	75

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73	Dual Channel Activatable Cyanine Dye for Mitochondrial Imaging and Mitochondria-Targeted Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3596-3606.	5.2	75
74	Molecular Orientation of Enzymes Attached to Surfaces through Defined Chemical Linkages at the Solid-Liquid Interface. <i>Journal of the American Chemical Society</i> , 2013, 135, 12660-12669.	13.7	73
75	Understanding surfaces and buried interfaces of polymer materials at the molecular level using sum frequency generation vibrational spectroscopy. <i>Polymer International</i> , 2007, 56, 577-587.	3.1	71
76	Observing a Molecular Knife at Work. <i>Journal of the American Chemical Society</i> , 2006, 128, 2711-2714.	13.7	70
77	Ion-Specific Oil Repellency of Polyelectrolyte Multilayers in Water: Molecular Insights into the Hydrophilicity of Charged Surfaces. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4851-4856.	13.8	70
78	Mitochondria-acting nanomicelles for destruction of cancer cells via excessive mitophagy/autophagy-driven lethal energy depletion and phototherapy. <i>Biomaterials</i> , 2020, 232, 119668.	11.4	70
79	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
80	Probing the Surface Hydration of Nonfouling Zwitterionic and Poly(ethylene glycol) Materials with Isotopic Dilution Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8775-8780.	3.1	69
81	Ordered adsorption of coagulation factor XII on negatively charged polymer surfaces probed by sum frequency generation vibrational spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 65-72.	3.7	68
82	Photosensitizer (PS)/polyhedral oligomeric silsesquioxane (POSS)-crosslinked nanohybrids for enhanced imaging-guided photodynamic cancer therapy. <i>Nanoscale</i> , 2017, 9, 12874-12884.	5.6	66
83	Photochemical origins of burn-in degradation in small molecular weight organic photovoltaic cells. <i>Energy and Environmental Science</i> , 2015, 8, 1005-1010.	30.8	65
84	Limiting an Antimicrobial Peptide to the Lipid-Water Interface Enhances Its Bacterial Membrane Selectivity: A Case Study of MSI-367. <i>Biochemistry</i> , 2010, 49, 10595-10605.	2.5	64
85	A β -glucosidase hyper-production <i>Trichoderma reesei</i> mutant reveals a potential role of cel3D in cellulase production. <i>Microbial Cell Factories</i> , 2016, 15, 151.	4.0	64
86	X-ray Photoelectron Spectroscopy Study of Counterion Incorporation in Poly(3,4-ethylenedioxythiophene) (PEDOT) 2: Polyanion Effect, Toluenesulfonate, and Small Anions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14992-14997.	3.1	62
87	Molecular Interactions of Proteins and Peptides at Interfaces Studied by Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2012, 28, 2113-2121.	3.5	61
88	Molecular Interactions between Cell Penetrating Peptide Pep-1 and Model Cell Membranes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2545-2552.	2.6	61
89	Surface Structure and Hydration of Sequence-Specific Amphiphilic Polypeptoids for Antifouling/Fouling Release Applications. <i>Langmuir</i> , 2015, 31, 9306-9311.	3.5	61
90	Effect of Interfacial Molecular Orientation on Power Conversion Efficiency of Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 3378-3386.	13.7	61

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91	Phase diagram of SrO _{1-x} CaO _{1-x} CuO ternary system. Solid State Communications, 1990, 75, 247-252.	1.9	59
92	Sum Frequency Generation Studies at Poly(ethylene terephthalate)/Silane Interfaces: Hydrogen Bond Formation and Molecular Conformation Determination. Langmuir, 2004, 20, 5467-5473.	3.5	59
93	A Sum Frequency Generation Vibrational Study of the Interference Effect in Poly(<i>n</i> -butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 115, 13759-13767.	3.1	59
94	Biodegradable and injectable polymer-liposome hydrogel: a promising cell carrier. Polymer Chemistry, 2016, 7, 2037-2044.	3.9	58
95	Cellulase hyper-production by Trichoderma reesei mutant SEU-7 on lactose. Biotechnology for Biofuels, 2017, 10, 228.	6.2	58
96	Sum frequency generation (SFG) - surface vibrational spectroscopy studies of buried interfaces: catalytic reaction intermediates on transition metal crystal surfaces at high reactant pressures; polymer surface structures at the solid-gas and solid-liquid interfaces. Applied Physics B: Lasers and Optics, 1999, 68, 549-557.	2.2	57
97	Probing the Spontaneous Membrane Insertion of a Tail-Anchored Membrane Protein by Sum Frequency Generation Spectroscopy. Journal of the American Chemical Society, 2010, 132, 15112-15115.	13.7	57
98	Different Molecular Structures at Polymer/Silane Interfaces Detected by SFG. Journal of Physical Chemistry B, 2003, 107, 10440-10445.	2.6	56
99	Imaging biofilm-encased microorganisms using carbon dots derived from L. plantarum. Nanoscale, 2017, 9, 9056-9064.	5.6	56
100	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. Journal of Physical Chemistry C, 2015, 119, 7146-7155.	3.1	55
101	Long-Time Plasma Membrane Imaging Based on a Two-Step Synergistic Cell Surface Modification Strategy. Bioconjugate Chemistry, 2016, 27, 782-789.	3.6	55
102	Directly Probing Molecular Ordering at the Buried Polymer/Metal Interface. Macromolecules, 2009, 42, 9052-9057.	4.8	54
103	Dual-wavelength linear regression phase unwrapping in three-dimensional microscopic images of cancer cells. Optics Letters, 2011, 36, 912.	3.3	54
104	Sum Frequency Generation Vibrational Spectroscopy Studies on Buried Polymer/Polymer Interfaces. Macromolecules, 2002, 35, 8093-8097.	4.8	53
105	Molecular studies on protein conformations at polymer/liquid interfaces using sum frequency generation vibrational spectroscopy. Surface Science, 2005, 587, 1-11.	1.9	53
106	Molecular level studies of polymer behaviors at the water interface using sum frequency generation vibrational spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 311-328.	2.1	53
107	Interfacial Structure of a DOPA-Inspired Adhesive Polymer Studied by Sum Frequency Generation Vibrational Spectroscopy. Langmuir, 2013, 29, 6659-6664.	3.5	53
108	Universal Cell Surface Imaging for Mammalian, Fungal, and Bacterial Cells. ACS Biomaterials Science and Engineering, 2016, 2, 987-997.	5.2	53

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109	Effect of Surface Hydration on Antifouling Properties of Mixed Charged Polymers. <i>Langmuir</i> , 2018, 34, 6538-6545.	3.5	53
110	Demonstrating the Feasibility of Monitoring the Molecular-Level Structures of Moving Polymer/Silane Interfaces during Silane Diffusion Using SFG. <i>Journal of the American Chemical Society</i> , 2004, 126, 1174-1179.	13.7	52
111	Polarization Mapping: A Method To Improve Sum Frequency Generation Spectral Analysis. <i>Analytical Chemistry</i> , 2004, 76, 2159-2167.	6.5	52
112	Probing the Structural Dependence of Carbon Space Lengths of Poly(<i>N</i> -hydroxyalkyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	5.4	52
113	Subcellular Fate of a Fluorescent Cholesterol-Poly(ethylene glycol) Conjugate: An Excellent Plasma Membrane Imaging Reagent. <i>Langmuir</i> , 2016, 32, 10126-10135.	3.5	52
114	Control of Protein Conformation and Orientation on Graphene. <i>Journal of the American Chemical Society</i> , 2019, 141, 20335-20343.	13.7	52
115	Absolute Orientations of Water Molecules at Zwitterionic Polymer Interfaces and Interfacial Dynamics after Salt Exposure. <i>Langmuir</i> , 2019, 35, 1327-1334.	3.5	52
116	Physiologically-Relevant Modes of Membrane Interactions by the Human Antimicrobial Peptide, LL-37, Revealed by SFG Experiments. <i>Scientific Reports</i> , 2013, 3, 1854.	3.3	51
117	Probing Site-Specific Structural Information of Peptides at Model Membrane Interface In Situ. <i>Journal of the American Chemical Society</i> , 2015, 137, 10190-10198.	13.7	51
118	Investigating the Effect of Two-Point Surface Attachment on Enzyme Stability and Activity. <i>Journal of the American Chemical Society</i> , 2018, 140, 16560-16569.	13.7	51
119	Deduction of Structural Information of Interfacial Proteins by Combined Vibrational Spectroscopic Methods. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6088-6095.	2.6	49
120	Observing Phthalate Leaching from Plasticized Polymer Films at the Molecular Level. <i>Langmuir</i> , 2014, 30, 4933-4944.	3.5	49
121	The effect of surface coverage on conformation changes of bovine serum albumin molecules at the air-solution interface detected by sum frequency generation vibrational spectroscopy. <i>Analyst</i> , The, 2003, 128, 773-778.	3.5	48
122	Interpretation of Sum Frequency Generation Vibrational Spectra of Interfacial Proteins by the Thin Film Model. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3625-3632.	2.6	48
123	Headgroup Effect on Silane Structures at Buried Polymer/Silane and Polymer/Polymer Interfaces and Their Relations to Adhesion. <i>Langmuir</i> , 2012, 28, 6052-6059.	3.5	48
124	Imaging plasma membranes without cellular internalization: multisite membrane anchoring reagents based on glycol chitosan derivatives. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6165-6173.	5.8	48
125	Smart Supramolecular "Trojan Horse"-Inspired Nanogels for Realizing Light-Triggered Nuclear Drug Influx in Drug-Resistant Cancer Cells. <i>Advanced Functional Materials</i> , 2019, 29, 180772.	14.9	48
126	Enhanced Fluorescence Emission and Singlet Oxygen Generation of Photosensitizers Embedded in Injectable Hydrogels for Imaging-Guided Photodynamic Cancer Therapy. <i>Biomacromolecules</i> , 2017, 18, 3073-3081.	5.4	47

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127	Molecular Level Structures of Poly(n-alkyl methacrylate)s with Different Side Chain Lengths at the Polymer/Air and Polymer/Water Interfaces. <i>Langmuir</i> , 2006, 22, 8800-8806.	3.5	46
128	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
129	Surface Morphology and Molecular Chemical Structure of Poly(n-butyl methacrylate)/Polystyrene Blend Studied by Atomic Force Microscopy (AFM) and Sum Frequency Generation (SFG) Vibrational Spectroscopy. <i>Langmuir</i> , 2002, 18, 1302-1309.	3.5	44
130	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
131	Different Interfacial Behaviors of Peptides Chemically Immobilized on Surfaces with Different Linker Lengths and via Different Termini. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2904-2912.	2.6	44
132	Enhanced cell membrane enrichment and subsequent cellular internalization of quantum dots via cell surface engineering: illuminating plasma membranes with quantum dots. <i>Journal of Materials Chemistry B</i> , 2016, 4, 834-843.	5.8	44
133	Surface Composition of Biopolymer Blends Biospan-SP/Phenoxy and Biospan-F/Phenoxy Observed with SFG, XPS, and Contact Angle Goniometry. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2935-2942.	2.6	43
134	Using Isotope-Labeled Proteins and Sum Frequency Generation Vibrational Spectroscopy to Study Protein Adsorption. <i>Langmuir</i> , 2003, 19, 7862-7866.	3.5	43
135	Membrane Orientation of $G\hat{1}\pm_i\hat{1}^2₁\hat{1}^3₂$ and $G\hat{1}^2₁\hat{1}^3₂$ Determined via Combined Vibrational Spectroscopic Studies. <i>Journal of the American Chemical Society</i> , 2013, 135, 5044-5051.	13.7	43
136	Probing Molecular Structures of Poly(dimethylsiloxane) at Buried Interfaces <i>in Situ</i> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 3903-3914.	3.1	43
137	Molecular-Level Insights into Orientation-Dependent Changes in the Thermal Stability of Enzymes Covalently Immobilized on Surfaces. <i>Langmuir</i> , 2015, 31, 6145-6153.	3.5	43
138	Effect of immobilization site on the orientation and activity of surface-tethered enzymes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1021-1029.	2.8	43
139	The diffusion of H ₂ in hexagonal ice at low temperatures. <i>Journal of Chemical Physics</i> , 1994, 101, 7177-7180.	3.0	42
140	Sum Frequency Generation Vibrational Spectroscopic Studies on a Silane Adhesion-Promoting Mixture at a Polymer Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 914-918.	2.6	42
141	Sum Frequency Generation Studies on the Surface Structures of Plasticized and Unplasticized Polyurethane in Air and in Water. <i>Analytical Chemistry</i> , 2003, 75, 3275-3280.	6.5	41
142	Chemically Immobilized Antimicrobial Peptide on Polymer and Self-Assembled Monolayer Substrates. <i>Langmuir</i> , 2018, 34, 12889-12896.	3.5	41
143	The Role of Hydrogen Bonding in Peptoid-Based Marine Antifouling Coatings. <i>Macromolecules</i> , 2019, 52, 1287-1295.	4.8	41
144	Collagen adsorption and structure on polymer surfaces observed by atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 99-107.	9.4	40

#	ARTICLE	IF	CITATIONS
145	Surface Hydration and Antifouling Activity of Zwitterionic Polymers. <i>Langmuir</i> , 2022, 38, 4483-4489.	3.5	40
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