

Zhan Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

320
papers

13,187
citations

62
h-index

93
g-index

329
ext. papers

14,883
ext. citations

6.4
avg, IF

6.76
L-index

#	Paper	IF	Citations
3 ²⁰	Probing protein aggregation at buried interfaces: distinguishing between adsorbed protein monomers, dimers, and a monomer-dimer mixture .. <i>Chemical Science</i> , 2022 , 13, 975-984	9.4	7
3 ¹⁹	Early sum frequency generation vibrational spectroscopic studies on peptides and proteins at interfaces.. <i>Biointerphases</i> , 2022 , 17, 031202	1.8	4
3 ¹⁸	Investigation of the Atmospheric Moisture Effect on the Molecular Behavior of an Isocyanate-Based Primer Surface. <i>Langmuir</i> , 2021 , 37, 12705-12713	4	4
3 ¹⁷	Investigating Thin Silicone Oil Films Using Four-Wave Mixing Spectroscopy and Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2021 ,	4	3
3 ¹⁶	Probing Orientations and Conformations of Peptides and Proteins at Buried Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10144-10155	6.4	9
3 ¹⁵	Interfacial Behavior of Flux Residues and Its Impact on Copper/Underfill Adhesion in Microelectronic Packaging. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2021 , 143,	2	1
3 ¹⁴	Why Are Water Droplets Highly Mobile on Nanostructured Oil-Impregnated Surfaces?. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15901-15909	9.5	8
3 ¹³	Interfacial Structure and Interfacial Tension in Model Carbon Fiber-Reinforced Polymers. <i>Langmuir</i> , 2021 , 37, 5311-5320	4	5
3 ¹²	Molecular Orientations at Buried Conducting Polymer/Graphene Interfaces. <i>Macromolecules</i> , 2021 , 54, 4050-4060	5.5	0
3 ¹¹	Molecular Structure of the Surface-Immobilized Super Uranyl Binding Protein. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7706-7716	3.4	10
3 ¹⁰	Interfacial reaction of a maleic anhydride grafted polyolefin with ethylene vinyl alcohol copolymer at the buried solid/solid interface. <i>Polymer</i> , 2021 , 212, 123141	3.9	9
3 ⁰⁹	Effect of Surfactant Concentration and Hydrophobicity on the Ordering of Water at a Silica Surface. <i>Langmuir</i> , 2021 , 37, 10806-10817	4	3
3 ⁰⁸	Strong Surface Hydration and Salt Resistant Mechanism of a New Nonfouling Zwitterionic Polymer Based on Protein Stabilizer TMAO. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16786-16795	16.4	18
3 ⁰⁷	Relaxation behavior of polymer thin films: Effects of free surface, buried interface, and geometrical confinement. <i>Progress in Polymer Science</i> , 2021 , 120, 101431	29.6	9
3 ⁰⁶	Elucidating molecular mechanisms of two-dimensional chemical reactions. <i>CheM</i> , 2021 ,	16.2	2
3 ⁰⁵	Nondestructive In Situ Detection of Chemical Reactions at the Buried Interface between Polyurethane and Isocyanate-Based Primer. <i>Macromolecules</i> , 2020 , 53, 10189-10197	5.5	11
3 ⁰⁴	Corn Oil-Water Separation: Interactions of Proteins and Surfactants at Corn Oil/Water Interfaces. <i>Langmuir</i> , 2020 , 36, 4044-4054	4	12

303	Probing Biological Molecule Orientation and Polymer Surface Structure at the Polymer/Solution Interface In Situ. <i>Langmuir</i> , 2020 , 36, 7681-7690	4	10
302	Strong Hydration at the Poly(ethylene glycol) Brush/Albumin Solution Interface. <i>Langmuir</i> , 2020 , 36, 2030-2036	4	14
301	Calcium-dependent and -independent annexin V binding: distinct molecular behaviours at cell membrane interfaces. <i>Chemical Communications</i> , 2020 , 56, 1653-1656	5.8	1
300	Preface to the Interfacial Science Developments at the Chinese Academy of Sciences Virtual Special Issue. <i>Langmuir</i> , 2020 , 36, 12087	4	
299	Molecular Insights into Adhesion at a Buried Silica-Filled Silicone/Polyethylene Terephthalate Interface. <i>Langmuir</i> , 2020 , 36, 15128-15140	4	9
298	Mitochondria-acting nanomicelles for destruction of cancer cells via excessive mitophagy/autophagy-driven lethal energy depletion and phototherapy. <i>Biomaterials</i> , 2020 , 232, 119668	15.6	46
297	Understanding Molecular Structures of Buried Interfaces in Halide Perovskite Photovoltaic Devices Nondestructively with Sub-Monolayer Sensitivity Using Sum Frequency Generation Vibrational Spectroscopy. <i>Advanced Energy Materials</i> , 2020 , 10, 1903053	21.8	19
296	Observing a Chemical Reaction at a Buried Solid/Solid Interface in Situ. <i>Analytical Chemistry</i> , 2020 , 92, 14145-14152	7.8	12
295	Probing Molecular Interactions between Surface-Immobilized Antimicrobial Peptides and Lipopolysaccharides. <i>Langmuir</i> , 2020 , 36, 12383-12393	4	8
294	Surface hydration for antifouling and bio-adhesion. <i>Chemical Science</i> , 2020 , 11, 10367-10377	9.4	39
293	Probing Molecular Behavior of Carbonyl Groups at Buried Nylon/Polyolefin Interfaces in Situ. <i>Langmuir</i> , 2020 , 36, 11349-11357	4	9
292	Nanomaterials meet zebrafish: Toxicity evaluation and drug delivery applications. <i>Journal of Controlled Release</i> , 2019 , 311-312, 301-318	11.7	49
291	Probing Metal Ion Discrimination in a Protein Designed to Bind Uranyl Cation With Femtomolar Affinity. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 73	5.6	2
290	Probing Surface Hydration and Molecular Structure of Zwitterionic and Polyacrylamide Hydrogels. <i>Langmuir</i> , 2019 , 35, 13292-13300	4	13
289	The Role of Hydrogen Bonding in Peptoid-Based Marine Antifouling Coatings. <i>Macromolecules</i> , 2019 , 52, 1287-1295	5.5	30
288	Molecular Mechanisms of Interactions between Monolayered Transition Metal Dichalcogenides and Biological Molecules. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9980-9988	16.4	18
287	Characterization of apolipoprotein A-I peptide phospholipid interaction and its effect on HDL nanodisc assembly. <i>International Journal of Nanomedicine</i> , 2019 , 14, 3069-3086	7.3	9
286	Supramolecular Nanogels: Smart Supramolecular Trojan Horse-Inspired Nanogels for Realizing Light-Triggered Nuclear Drug Influx in Drug-Resistant Cancer Cells (Adv. Funct. Mater. 13/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970085	15.6	2

285	Nitric oxide releasing poly(vinylidene fluoride-co-hexafluoropropylene) films using a fluorinated nitric oxide donor to greatly decrease chemical leaching. <i>Acta Biomaterialia</i> , 2019 , 90, 112-121	10.8	5
284	Metal Ion Size-Dependent Effects on Lipid Transmembrane Flip-Flop. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17899-17907	3.8	6
283	Probing the Interfacial Interactions of Monoclonal and Bispecific Antibodies at the Silicone Oil-Aqueous Solution Interface by Using Sum Frequency Generation Vibrational Spectroscopy. <i>Langmuir</i> , 2019 , 35, 14339-14347	4	15
282	Preface to The 15th Pacific Polymer Conference (PPC-15) Virtual Issue. <i>Langmuir</i> , 2019 , 35, 4413-4414	4	
281	Control of Protein Conformation and Orientation on Graphene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20335-20343	16.4	32
280	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, 1807772	15.6	34
279	Absolute Orientations of Water Molecules at Zwitterionic Polymer Interfaces and Interfacial Dynamics after Salt Exposure. <i>Langmuir</i> , 2019 , 35, 1327-1334	4	36
278	Carboxymethyl cellulose/polyacrylamide composite hydrogel for cascaded treatment/reuse of heavy metal ions in wastewater. <i>Journal of Hazardous Materials</i> , 2019 , 364, 28-38	12.8	178
277	Self-Assembled Rose Bengal-Exopolysaccharide Nanoparticles for Improved Photodynamic Inactivation of Bacteria by Enhancing Singlet Oxygen Generation Directly in the Solution. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16715-16722	9.5	53
276	Observing different dynamic behaviors of weakly and strongly adsorbed polystyrene chains at interfaces. <i>Soft Matter</i> , 2018 , 14, 2762-2766	3.6	6
275	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	16.4	96
274	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	11.5	83
273	Monitoring Antimicrobial Mechanisms of Surface-Immobilized Peptides in Situ. <i>Langmuir</i> , 2018 , 34, 20574-2062	4	24
272	Molecular Interactions Between Silver Nanoparticles and Model Cell Membranes. <i>Topics in Catalysis</i> , 2018 , 61, 1148-1162	2.3	10
271	Glutathione-Depleting Gold Nanoclusters for Enhanced Cancer Radiotherapy through Synergistic External and Internal Regulations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10601-10606	9.5	55
270	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1213-1224	1.7	5
269	Simultaneous Observation of the Orientation and Activity of Surface-Immobilized Enzymes. <i>Langmuir</i> , 2018 , 34, 9133-9140	4	17
268	Structures and Adhesion Properties at Polyethylene/Silica and Polyethylene/Nylon Interfaces. <i>Langmuir</i> , 2018 , 34, 6194-6204	4	13

267	Effect of Surface Hydration on Antifouling Properties of Mixed Charged Polymers. <i>Langmuir</i> , 2018 , 34, 6538-6545	4	40
266	Molecular Coupling between Organic Molecules and Metal. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5167-5172	6.4	5
265	Bacteria-Derived Carbon Dots Inhibit Biofilm Formation of without Affecting Cell Growth. <i>Frontiers in Microbiology</i> , 2018 , 9, 259	5.7	48
264	Understanding Protein-Interface Interactions of a Fusion Protein at Silicone Oil-Water Interface Probed by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 682-689	3.9	21
263	Molecular interactions between single layered MoS and biological molecules. <i>Chemical Science</i> , 2018 , 9, 1769-1773	9.4	20
262	Interactions between Surface-Immobilized Antimicrobial Peptides and Model Bacterial Cell Membranes. <i>Langmuir</i> , 2018 , 34, 512-520	4	14
261	Effect of immobilization site on the orientation and activity of surface-tethered enzymes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1021-1029	3.6	29
260	Surface Analysis: Sum Frequency Generation Spectroscopy 2018 , 393-393		
259	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	16.4	33
258	Exopolysaccharide-Derived Carbon Dots for Microbial Viability Assessment. <i>Frontiers in Microbiology</i> , 2018 , 9, 2697	5.7	20
257	Chemically Immobilized Antimicrobial Peptide on Polymer and Self-Assembled Monolayer Substrates. <i>Langmuir</i> , 2018 , 34, 12889-12896	4	30
256	Constitutive hyperproduction of sorbicillinoids in ZC121. <i>Biotechnology for Biofuels</i> , 2018 , 11, 291	7.8	16
255	Nondestructive Analysis of Buried Interfacial Behaviors of Flux Residue and Their Impact on Interfacial Mechanical Property. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 982-990	1.7	4
254	Molecular Interactions between Graphene and Biological Molecules. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1928-1936	16.4	77
253	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	16.4	46
252	Engineered Surface-Immobilized Enzyme that Retains High Levels of Catalytic Activity in Air. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2872-2875	16.4	27
251	Plasma membrane activatable polymeric nanotheranostics with self-enhanced light-triggered photosensitizer cellular influx for photodynamic cancer therapy. <i>Journal of Controlled Release</i> , 2017 , 255, 231-241	11.7	63
250	Cholesterol-Assisted Bacterial Cell Surface Engineering for Photodynamic Inactivation of Gram-Positive and Gram-Negative Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15943-15951	9.5	99

249	Fluorescence studies on the interaction between chlorpromazine and model cell membranes. <i>New Journal of Chemistry</i> , 2017 , 41, 4048-4057	3.6	11
248	Plasma treatment effect on polymer buried interfacial structure and property. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12144-12155	3.6	15
247	Imaging biofilm-encased microorganisms using carbon dots derived from <i>L. plantarum</i> . <i>Nanoscale</i> , 2017 , 9, 9056-9064	7.7	39
246	SFG analysis of the molecular structures at the surfaces and buried interfaces of PECVD ultralow-dielectric constant pSiCOH: Reactive ion etching and dielectric recovery. <i>Applied Physics Letters</i> , 2017 , 110, 182902	3.4	2
245	Photosensitizer (PS)/polyhedral oligomeric silsesquioxane (POSS)-crosslinked nanohybrids for enhanced imaging-guided photodynamic cancer therapy. <i>Nanoscale</i> , 2017 , 9, 12874-12884	7.7	57
244	Hydrogel-based phototherapy for fighting cancer and bacterial infection. <i>Science China Materials</i> , 2017 , 60, 487-503	7.1	54
243	Self-Assembled Exopolysaccharide Nanoparticles for Bioremediation and Green Synthesis of Noble Metal Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22808-22818	9.5	62
242	Shape-Dependent Radiosensitization Effect of Gold Nanostructures in Cancer Radiotherapy: Comparison of Gold Nanoparticles, Nanospikes, and Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13037-13048	9.5	139
241	Dual Channel Activatable Cyanine Dye for Mitochondrial Imaging and Mitochondria-Targeted Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3596-3606	5.5	57
240	Cellulase hyper-production by mutant SEU-7 on lactose. <i>Biotechnology for Biofuels</i> , 2017 , 10, 228	7.8	44
239	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	6.9	40
238	Distinct Molecular Structures of Edge and Middle Positions of Plasma Treated Covered Polymer Film Surfaces Relevant in the Microelectronics Industry. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017 , 7, 1377-1390	1.7	7
237	Permeabilization-Tolerant Plasma Membrane Imaging Reagent Based on Amine-Rich Glycol Chitosan Derivatives. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2570-2578	5.5	13
236	Action of Gold Nanospikes-Based Nanoradiosensitizers: Cellular Internalization, Radiotherapy, and Autophagy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31526-31542	9.5	71
235	Capsaicin-Inspired Thiol-Ene Terpolymer Networks Designed for Antibiofouling Coatings. <i>Langmuir</i> , 2017 , 33, 13689-13698	4	17
234	Carbon quantum dots with intrinsic mitochondrial targeting ability for mitochondria-based theranostics. <i>Nanoscale</i> , 2017 , 9, 10948-10960	7.7	117
233	Effect of Surface Crowding and Surface Hydrophilicity on the Activity, Stability and Molecular Orientation of a Covalently Tethered Enzyme. <i>Langmuir</i> , 2017 , 33, 7152-7159	4	22
232	Bacteria-derived fluorescent carbon dots for microbial live/dead differentiation. <i>Nanoscale</i> , 2017 , 9, 2150-2161	7.7	116

231	Studying Polymer Surfaces and Interfaces with Sum Frequency Generation Vibrational Spectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 466-489	7.8	86
230	Orientation Determination of a Hybrid Peptide Immobilized on CVD-Based Reactive Polymer Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19078-19086	3.8	11
229	Molecular Interactions between Gold Nanoparticles and Model Cell Membranes: A Study of Nanoparticle Surface Charge Effect. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22718-22729	3.8	16
228	Quaternized Silicon Nanoparticles with Polarity-Sensitive Fluorescence for Selectively Imaging and Killing Gram-Positive Bacteria. <i>Advanced Functional Materials</i> , 2016 , 26, 5958-5970	15.6	117
227	Influence of the side chain and substrate on polythiophene thin film surface, bulk, and buried interfacial structures. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22089-99	3.6	19
226	Carbon Dot-Based Platform for Simultaneous Bacterial Distinguishment and Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32170-32181	9.5	200
225	Molecular-level structures at poly(4-vinyl pyridine)/acid interfaces probed by nonlinear vibrational spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 848-852	2.6	2
224	In Situ Visualization of Lipid Raft Domains by Fluorescent Glycol Chitosan Derivatives. <i>Langmuir</i> , 2016 , 32, 6739-45	4	25
223	Live-cell quantification and comparison of mammalian oocyte cytosolic lipid content between species, during development, and in relation to body composition using nonlinear vibrational microscopy. <i>Analyst, The</i> , 2016 , 141, 4694-706	5	20
222	Low-Volatility Model Demonstrates Humidity Affects Environmental Toxin Deposition on Plastics at a Molecular Level. <i>Environmental Science & Technology</i> , 2016 , 50, 1304-12	10.3	9
221	Molecular level studies on interfacial hydration of zwitterionic and other antifouling polymers in situ. <i>Acta Biomaterialia</i> , 2016 , 40, 6-15	10.8	110
220	Long-Time Plasma Membrane Imaging Based on a Two-Step Synergistic Cell Surface Modification Strategy. <i>Bioconjugate Chemistry</i> , 2016 , 27, 782-9	6.3	41
219	Biodegradable and injectable polymer liposome hydrogel: a promising cell carrier. <i>Polymer Chemistry</i> , 2016 , 7, 2037-2044	4.9	48
218	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	7.3	37
217	Immobilization of enzyme on a polymer surface. <i>Surface Science</i> , 2016 , 648, 53-59	1.8	13
216	Sum Frequency Generation of Interfacial Lipid Monolayers Shows Polarization Dependence on Experimental Geometries. <i>Langmuir</i> , 2016 , 32, 7086-95	4	12
215	SFG analysis of the molecular structures at the surfaces and buried interfaces of PECVD ultralow-dielectric constant pSiCOH. <i>Journal of Applied Physics</i> , 2016 , 119, 084101	2.5	9
214	Folding Behaviors of Protein (Lysozyme) Confined in Polyelectrolyte Complex Micelle. <i>Langmuir</i> , 2016 , 32, 3655-64	4	22

213	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, 1149-57	24.3	81
212	Universal Cell Surface Imaging for Mammalian, Fungal, and Bacterial Cells. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 987-997	5.5	42
211	Effect of Lipid Composition on the Membrane Orientation of the G Protein-Coupled Receptor Kinase 2-G12Q Complex. <i>Biochemistry</i> , 2016 , 55, 2841-8	3.2	11
210	Subcellular Fate of a Fluorescent Cholesterol-Poly(ethylene glycol) Conjugate: An Excellent Plasma Membrane Imaging Reagent. <i>Langmuir</i> , 2016 , 32, 10126-10135	4	46
209	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	6.4	43
208	Enhanced Radiosensitization of Gold Nanospikes via Hyperthermia in Combined Cancer Radiation and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28480-28494	9.5	94
207	Reliability of Small Molecule Organic Photovoltaics with Electron-Filtering Compound Buffer Layers. <i>Advanced Energy Materials</i> , 2016 , 6, 1601094	21.8	19
206	Photochemical origins of burn-in degradation in small molecular weight organic photovoltaic cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1005-1010	35.4	59
205	Membrane interaction of antimicrobial peptides using <i>E. coli</i> lipid extract as model bacterial cell membranes and SFG spectroscopy. <i>Chemistry and Physics of Lipids</i> , 2015 , 187, 20-33	3.7	23
204	Multireflection sum frequency generation vibrational spectroscopy. <i>Analytical Chemistry</i> , 2015 , 87, 8157-64	6.4	7
203	Surface plasma treatment effects on the molecular structure at polyimide/air and buried polyimide/epoxy interfaces. <i>Chinese Chemical Letters</i> , 2015 , 26, 449-454	8.1	22
202	Probing Site-Specific Structural Information of Peptides at Model Membrane Interface In Situ. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10190-8	16.4	41
201	Qualitative and Quantitative Analyses of the Molecular-Level Interaction between Memantine and Model Cell Membranes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17074-17083	3.8	20
200	Probing the Surface Hydration of Nonfouling Zwitterionic and PEG Materials in Contact with Proteins. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16881-8	9.5	171
199	Effect of Solvent on Surface Ordering of Poly(3-hexylthiophene) Thin Films. <i>Langmuir</i> , 2015 , 31, 5050-6	4	23
198	Selective and Reversible Binding of Thiol-Functionalized Biomolecules on Polymers Prepared via Chemical Vapor Deposition Polymerization. <i>Langmuir</i> , 2015 , 31, 5123-9	4	15
197	Synthesis of ultrastable copper sulfide nanoclusters via trapping the reaction intermediate: potential anticancer and antibacterial applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7082-92	2.5	91
196	Controlled drug release and hydrolysis mechanism of polymer-magnetic nanoparticle composite. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9410-9	9.5	27

195	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	3.8	54
194	Molecular Orientation Analysis of Alkyl Methylene Groups from Quantitative Coherent Anti-Stokes Raman Scattering Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1369-74	6.4	10
193	Molecular interactions between gold nanoparticles and model cell membranes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9873-84	3.6	26
192	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7146-7155	3.8	48
191	Determination of conformation and orientation of immobilized peptides and proteins at buried interfaces. <i>Chemical Physics Letters</i> , 2015 , 619, 247-255	2.5	24
190	Interfacial ordering of thermotropic liquid crystals triggered by the secondary structures of oligopeptides. <i>Chemical Communications</i> , 2015 , 51, 16844-7	5.8	21
189	Probing the molecular structures of plasma-damaged and surface-repaired low-k dielectrics. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26130-9	3.6	4
188	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	7.3	38
187	Surface Structure and Hydration of Sequence-Specific Amphiphilic Polypeptoids for Antifouling/Fouling Release Applications. <i>Langmuir</i> , 2015 , 31, 9306-11	4	50
186	Plasma Treatment Effects on Molecular Structures at Dense and Porous Low-k SiCOH Film Surfaces and Buried Interfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22514-22525	3.8	7
185	Interfacial Behaviors of Antimicrobial Peptide Cecropin P1 Immobilized on Different Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22542-22551	3.8	20
184	Characterization of polymer/epoxy buried interfaces with silane adhesion promoters before and after hygrothermal aging for the elucidation of molecular level details relevant to adhesion. <i>RSC Advances</i> , 2015 , 5, 105622-105631	3.7	15
183	Nondestructive Characterization of Molecular Structures at Buried Copper/Epoxy Interfaces and Their Relationship to Locus of Failure Analysis. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 1432-1440	1.7	11
182	Silicon Nanoparticles: One-Step Synthesis of Superbright Water-Soluble Silicon Nanoparticles with Photoluminescence Quantum Yield Exceeding 80% (Adv. Mater. Interfaces 16/2015). <i>Advanced Materials Interfaces</i> , 2015 , 2,	4.6	3
181	One-Step Synthesis of Superbright Water-Soluble Silicon Nanoparticles with Photoluminescence Quantum Yield Exceeding 80%. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500360	4.6	77
180	Method to Probe Glass Transition Temperatures of Polymer Thin Films. <i>ACS Macro Letters</i> , 2015 , 4, 548-551	5.6	20
179	Ion-Specific Oil Repellency of Polyelectrolyte Multilayers in Water: Molecular Insights into the Hydrophilicity of Charged Surfaces. <i>Angewandte Chemie</i> , 2015 , 127, 4933-4938	3.6	15
178	Synthesis of ultrastable and multifunctional gold nanoclusters with enhanced fluorescence and potential anticancer drug delivery application. <i>Journal of Colloid and Interface Science</i> , 2015 , 455, 6-15	9.3	27

177	Molecular-Level Insights into Orientation-Dependent Changes in the Thermal Stability of Enzymes Covalently Immobilized on Surfaces. <i>Langmuir</i> , 2015 , 31, 6145-53	4	34
176	Room temperature freezing and orientational control of surface-immobilized peptides in air. <i>Chemical Communications</i> , 2015 , 51, 11015-8	5.8	12
175	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, 4851-6	16.4	59
174	Nondestructive in situ characterization of molecular structures at the surface and buried interface of silicon-supported low-k dielectric films. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1736-46	3.4	17
173	Highly sensitive and selective detection of dopamine using one-pot synthesized highly photoluminescent silicon nanoparticles. <i>Analytical Chemistry</i> , 2015 , 87, 3360-5	7.8	185
172	The molecular interfacial structure and plasticizer migration behavior of "green" plasticized poly(vinyl chloride). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4472-82	3.6	21
171	Evaluating UV/H ₂ O ₂ exposure as a DEHP degradation treatment for plasticized PVC. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	8
170	Molecular ordering of phenyl groups at the buried polystyrene/metal interface. <i>Langmuir</i> , 2014 , 30, 9418-22	4.2	27
169	In situ observation of water behavior at the surface and buried interface of a low-k dielectric film. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18951-61	9.5	20
168	Interfacial molecular restructuring of plasticized polymers in water. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20097-106	3.6	21
167	Molecular behavior at buried epoxy/poly(ethylene terephthalate) interface. <i>Langmuir</i> , 2014 , 30, 12541-50	4.0	23
166	Comparison of the influence of humidity and D-mannitol on the organization of tetraethylene glycol-terminated self-assembled monolayers and immobilized antimicrobial peptides. <i>Langmuir</i> , 2014 , 30, 7143-51	4	5
165	Molecular structures of C- and N-terminus cysteine modified cecropin P1 chemically immobilized onto maleimide-terminated self-assembled monolayers investigated by molecular dynamics simulation. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5670-80	3.4	26
164	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, 2904-12	3.4	43
163	Molecular interactions between amantadine and model cell membranes. <i>Langmuir</i> , 2014 , 30, 8491-9	4	19
162	Probing the structural dependence of carbon space lengths of poly(N-hydroxyalkyl acrylamide)-based brushes on antifouling performance. <i>Biomacromolecules</i> , 2014 , 15, 2982-91	6.9	45
161	Hygrothermal aging effects on buried molecular structures at epoxy interfaces. <i>Langmuir</i> , 2014 , 30, 165-71	4.1	29
160	Enhanced fluorescence of gold nanoclusters composed of HAuCl ₄ and histidine by glutathione: glutathione detection and selective cancer cell imaging. <i>Small</i> , 2014 , 10, 5170-7	11	145

159	Environmental effect on surface immobilized biological molecules. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12176-85	3.4	9
158	Thermo- and pH-responsive behaviors of aqueous poly(acrylic acid)/poly(4-vinylpyridine) complex material characterized by ATR-FTIR and UV-Vis Spectroscopy. <i>European Polymer Journal</i> , 2014 , 60, 255-261	5.2	18
157	Unveiling the membrane-binding properties of N-terminal and C-terminal regions of G protein-coupled receptor kinase 5 by combined optical spectroscopies. <i>Langmuir</i> , 2014 , 30, 823-31	4	8
156	Investigation of Drug-Model Cell Membrane Interactions Using Sum Frequency Generation Vibrational Spectroscopy: A Case Study of Chlorpromazine. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17538-17548	3.8	23
155	Observing phthalate leaching from plasticized polymer films at the molecular level. <i>Langmuir</i> , 2014 , 30, 4933-44	4	29
154	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	3.8	97
153	Surface orientation control of site-specifically immobilized nitro-reductase (NfsB). <i>Langmuir</i> , 2014 , 30, 5930-8	4	25
152	Interaction of Polyethylenimine with Model Cell Membranes Studied by Linear and Nonlinear Spectroscopic Techniques. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12195-12205	3.8	33
151	Influence of casting solvent on phenyl ordering at the surface of spin cast polymer thin films. <i>Journal of Colloid and Interface Science</i> , 2014 , 423, 60-6	9.3	11
150	Unveiling the Membrane-Binding Properties of N-Terminal and C-Terminal Regions of G Protein-Coupled Receptor Kinase 5 by Combined Optical Spectroscopies. <i>Biophysical Journal</i> , 2014 , 106, 294a	2.9	
149	Hyperspectral imaging and characterization of live cells by broadband coherent anti-Stokes Raman scattering (CARS) microscopy with singular value decomposition (SVD) analysis. <i>Applied Spectroscopy</i> , 2014 , 68, 1116-22	3.1	17
148	Sum frequency generation vibrational spectroscopic studies on buried heterogeneous biointerfaces. <i>Optics Letters</i> , 2014 , 39, 2715-8	3	17
147	Interfacial Fresnel Coefficients and Molecular Structures of Model Cell Membranes: From a Lipid Monolayer to a Lipid Bilayer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28631-28639	3.8	18
146	Combining surface sensitive vibrational spectroscopy and fluorescence microscopy to study biological interfaces 2014 ,		3
145	Sum Frequency Generation Vibrational Spectroscopy: A Sensitive Technique for the Study of Biological Molecules at Interfaces 2014 , 195-224		
144	Physiologically-relevant modes of membrane interactions by the human antimicrobial peptide, LL-37, revealed by SFG experiments. <i>Scientific Reports</i> , 2013 , 3, 1854	4.9	42
143	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, 12660-9	16.4	62
142	Nano-bio interfaces probed by advanced optical spectroscopy: From model system studies to optical biosensors. <i>Science Bulletin</i> , 2013 , 58, 2537-2556		10

141	Different interfacial behaviors of N- and C-terminus cysteine-modified cecropin P1 chemically immobilized onto polymer surface. <i>Langmuir</i> , 2013 , 29, 11705-12	4	12
140	Influence of nanoparticle shape, size, and surface functionalization on cellular uptake. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6485-98	1.3	106
139	Elucidation of molecular structures at buried polymer interfaces and biological interfaces using sum frequency generation vibrational spectroscopy. <i>Soft Matter</i> , 2013 , 9, 4738-4761	3.6	71
138	Molecular level studies of polymer behaviors at the water interface using sum frequency generation vibrational spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 311-328	3.6	50
137	Membrane orientation of G β 1(12) and G β 1(12) determined via combined vibrational spectroscopic studies. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5044-51	16.4	39
136	Surface structures of PDMS incorporated with quaternary ammonium salts designed for antibiofouling and fouling release applications. <i>Langmuir</i> , 2013 , 29, 2897-905	4	75
135	Interfacial structure of a DOPA-inspired adhesive polymer studied by sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2013 , 29, 6659-64	4	46
134	Molecular surface structural changes of plasticized PVC materials after plasma treatment. <i>Langmuir</i> , 2013 , 29, 4008-18	4	29
133	Lipid Fluid-Gel Phase Transition Induced Alamethicin Orientational Change Probed by Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17039-17049	3.8	24
132	Dependence of Alamethicin Membrane Orientation on the Solution Concentration. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3358-3365	3.8	32
131	In Situ Probing the Surface Restructuring of Antibiofouling Amphiphilic Polybetaines in Water.. <i>ACS Macro Letters</i> , 2013 , 2, 1011-1015	6.6	21
130	Molecular structural changes of plasticized PVC after UV light exposure. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 16336-44	3.4	25
129	Probing Molecular Structures of Poly(dimethylsiloxane) at Buried Interfaces in Situ. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3903-3914	3.8	37
128	Quantitative molecular level understanding of ethoxysilane at poly(dimethylsiloxane)/polymer interfaces. <i>Langmuir</i> , 2013 , 29, 610-9	4	19
127	Site-specific orientation of an α helical peptide ovispirin-1 from isotope-labeled SFG spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14625-34	3.4	27
126	Membrane orientation and binding determinants of G protein-coupled receptor kinase 5 as assessed by combined vibrational spectroscopic studies. <i>PLoS ONE</i> , 2013 , 8, e82072	3.7	23
125	A Powerful Nonlinear Optical Technique to Characterize Surfaces and Interfaces Sum Frequency Generation Vibrational Spectroscopy. <i>Advanced Materials Research</i> , 2012 , 441, 703-707	0.5	
124	Molecular interactions of proteins and peptides at interfaces studied by sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2012 , 28, 2113-21	4	56

123	Molecular interactions between cell penetrating peptide Pep-1 and model cell membranes. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2545-52	3.4	57
122	Sum frequency generation and coherent anti-Stokes Raman spectroscopic studies on plasma-treated plasticized polyvinyl chloride films. <i>Langmuir</i> , 2012 , 28, 4654-62	4	15
121	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, 6237-43	16.4	82
120	Headgroup effect on silane structures at buried polymer/silane and polymer/polymer interfaces and their relations to adhesion. <i>Langmuir</i> , 2012 , 28, 6052-9	4	40
119	Molecular level understanding of adhesion mechanisms at the epoxy/polymer interfaces. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3730-7	9.5	69
118	Directly Probing Molecular Ordering at the Buried Polymer/Metal Interface 2: Using P-Polarized Input Beams. <i>Macromolecules</i> , 2012 , 45, 6087-6094	5.5	32
117	Cell volume changes during apoptosis monitored in real time using digital holographic microscopy. <i>Journal of Structural Biology</i> , 2012 , 178, 270-8	3.4	47
116	Dual-wavelength digital holographic imaging with phase background subtraction. <i>Optical Engineering</i> , 2012 , 51, 055801	1.1	14
115	Molecular Structures of Buried Polymer Interfaces and Biological Interfaces Detected by Sum Frequency Generation Vibrational Spectroscopy. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2012 , 28, 504-521	3.8	9
114	Hyperspectral microscopic imaging by multiplex coherent anti-Stokes Raman scattering (CARS) 2011 ,		1
113	Interfacial orientation and secondary structure change in tachyplesin I: molecular dynamics and sum frequency generation spectroscopy studies. <i>Langmuir</i> , 2011 , 27, 14343-51	4	14
112	Dual-wavelength linear regression phase unwrapping in three-dimensional microscopic images of cancer cells. <i>Optics Letters</i> , 2011 , 36, 912-4	3	35
111	Examining surface and bulk structures using combined nonlinear vibrational spectroscopies. <i>Optics Letters</i> , 2011 , 36, 2272-4	3	24
110	Immobilization of amphiphilic polycations by catechol functionality for antimicrobial coatings. <i>Langmuir</i> , 2011 , 27, 4010-9	4	81
109	Molecular orientation of asphaltenes and PAH model compounds in Langmuir-Blodgett films using sum frequency generation spectroscopy. <i>Langmuir</i> , 2011 , 27, 6049-58	4	96
108	A Sum Frequency Generation Vibrational Study of the Interference Effect in Poly(n-butyl methacrylate) Thin Films Sandwiched between Silica and Water. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13759-13767	3.8	48
107	Surface and buried interfacial structures of epoxy resins used as underfills studied by sum frequency generation vibrational spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1640-51	9.5	21
106	Peering at a buried polymer-crystal interface: probing heterogeneous nucleation by sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2011 , 27, 2162-5	4	19

105	Solvent effect and time-dependent behavior of C-terminus-cysteine-modified cecropin P1 chemically immobilized on a polymer surface. <i>Langmuir</i> , 2011 , 27, 7042-51	4	34
104	Membrane orientation of MSI-78 measured by sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2011 , 27, 7760-7	4	75
103	Investigations of the interactions between synthetic antimicrobial polymers and substrate-supported lipid bilayers using sum frequency generation vibrational spectroscopy. <i>Analytical Chemistry</i> , 2011 , 83, 1342-9	7.8	25
102	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	3.8	35
101	Investigation of sub-monolayer, monolayer, and multilayer self-assembled semifluorinated alkylsilane films. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 322-30	9.3	20
100	Dual wavelength digital holography phase unwrapping by linear regression 2011 ,		1
99	Heterotrimeric G protein beta1gamma2 subunits change orientation upon complex formation with G protein-coupled receptor kinase 2 (GRK2) on a model membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E667-73	11.5	72
98	Molecular Structures of the Buried Interfaces between Silicone Elastomer and Silane Adhesion Promoters Probed by Sum Frequency Generation Vibrational Spectroscopy and Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 96-103	9.5	17
97	Orientation determination of interfacial beta-sheet structures in situ. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8291-300	3.4	123
96	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, 16455-62	4	82
95	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	3.8	53
94	Surface structures of an amphiphilic tri-block copolymer in air and in water probed using sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2010 , 26, 11337-43	4	16
93	Probing the spontaneous membrane insertion of a tail-anchored membrane protein by sum frequency generation spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15112-5	16.4	56
92	Surface orientation of phenyl groups in poly(sodium 4-styrenesulfonate) and in poly(sodium 4-styrenesulfonate):poly(3,4-ethylenedioxythiophene) mixture examined by sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2010 , 26, 14231-5	4	16
91	Effect of Anionic Hydration on Counterion Incorporation in Poly(3,4-ethylenedioxythiophene): An X-ray Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14998-15004	3.8	3
90	Surface orientation of magainin 2: molecular dynamics simulation and sum frequency generation vibrational spectroscopic studies. <i>Langmuir</i> , 2010 , 26, 16031-6	4	21
89	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, 10595-605	3.2	57
88	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, 3334-40	4	66

87	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, 6471-7	4	60
86	The molecular surface conformation of surface-tethered polyelectrolytes on PDMS surfaces. <i>Soft Matter</i> , 2010 ,	3.6	6
85	Probing polymer surfaces and interfaces using sum frequency generation vibrational spectroscopy - a powerful nonlinear optical technique. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010 , 5, 435-444		5
84	Investigating buried polymer interfaces using sum frequency generation vibrational spectroscopy. <i>Progress in Polymer Science</i> , 2010 , 35, 1376-1402	29.6	120
83	Sum Frequency Generation Studies on Bioadhesion: Elucidating the Molecular Structure of Proteins at Interfaces. <i>Journal of Adhesion</i> , 2009 , 85, 484-511		17
82	Understanding molecular structures of silanes at buried polymer interfaces using sum frequency generation vibrational spectroscopy and relating interfacial structures to polymer adhesion. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 408-16	9.3	24
81	Deducing 2D crystal structure at the liquid/solid interface with atomic resolution: a combined STM and SFG study. <i>Langmuir</i> , 2009 , 25, 12847-50	4	4
80	X-ray Photoelectron Spectroscopy Study of Counterion Incorporation in Poly(3,4-ethylenedioxythiophene). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5585-5592	3.8	75
79	Dependence of antimicrobial selectivity and potency on oligomer structure investigated using substrate supported lipid bilayers and sum frequency generation vibrational spectroscopy. <i>Analytical Chemistry</i> , 2009 , 81, 8365-72	7.8	22
78	Phenolic resin surface restructuring upon exposure to humid air: a sum frequency generation vibrational spectroscopic study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12944-51	3.4	24
77	Orientation determination of protein helical secondary structures using linear and nonlinear vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12169-80	3.4	136
76	Directly Probing Molecular Ordering at the Buried Polymer/Metal Interface. <i>Macromolecules</i> , 2009 , 42, 9052-9057	5.5	48
75	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	3.4	83
74	Molecular interactions between magainin 2 and model membranes in situ. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12358-63	3.4	86
73	Solventless adhesive bonding using reactive polymer coatings. <i>Analytical Chemistry</i> , 2008 , 80, 4119-24	7.8	79
72	Detection of tethered biocide moiety segregation to silicone surface using sum frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2008 , 24, 9686-94	4	44
71	Probing Molecular Structures of Polymer/Metal Interfaces by Sum Frequency Generation Vibrational Spectroscopy. <i>Macromolecules</i> , 2008 , 41, 8770-8777	5.5	69
70	Structural information of mussel adhesive protein Mefp-3 acquired at various polymer/Mefp-3 solution interfaces. <i>Langmuir</i> , 2008 , 24, 5795-801	4	34

69	Quantifying the ordering of adsorbed proteins in situ. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2281-90	4	64
68	Probing molecular-level surface structures of polyethersulfone/pluronic F127 blends using sum-frequency generation vibrational spectroscopy. <i>Langmuir</i> , 2008 , 24, 7939-46	4	42
67	In situ investigation of heterotrimeric G protein betagamma subunit binding and orientation on membrane bilayers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12658-9	16.4	66
66	Deduction of structural information of interfacial proteins by combined vibrational spectroscopic methods. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6088-95	3.4	46
65	Multiple orientation of melittin inside a single lipid bilayer determined by combined vibrational spectroscopic studies. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1420-7	16.4	160
64	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, 866-75	2.9	82
63	Diffusion of one or more components of a silane adhesion-promoting mixture into poly(methyl methacrylate). <i>Journal of Colloid and Interface Science</i> , 2007 , 308, 170-5	9.3	26
62	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	3.3	62
61	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	4.4	57
60	Observing a molecular knife at work. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2711-4	16.4	61
59	Polymer surface reorientation after protein adsorption. <i>Langmuir</i> , 2006 , 22, 8627-30	4	20
58	Vibrational spectroscopic studies on fibrinogen adsorption at polystyrene/protein solution interfaces: hydrophobic side chain and secondary structure changes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5017-24	3.4	61
57	Irreducible representation and projection operator application to understanding nonlinear optical phenomena: hyper-Raman, sum frequency generation, and four-wave mixing spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 7035-44	2.8	18
56	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, 8800-6	4	42
55	Chemical Structures of Liquid Poly(ethylene glycol)s with Different End Groups at Buried Polymer Interfaces. <i>Macromolecules</i> , 2006 , 39, 9396-9401	5.5	23
54	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, 914-8	3.4	36
53	Detection and spectral analysis of trifluoromethyl groups at a surface by sum frequency generation vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26089-97	3.4	6
52	SFG studies on interactions between antimicrobial peptides and supported lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1257-73	3.8	118

51	Surface structures and properties of polystyrene/poly(methyl methacrylate) blends and copolymers. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6280-6	3.4	32
50	Comparison of surface structures of poly(ethyl methacrylate) and poly(ethyl acrylate) in different chemical environments. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 2357-63	3.6	36
49	Probing alpha-helical and beta-sheet structures of peptides at solid/liquid interfaces with SFG. <i>Langmuir</i> , 2005 , 21, 2662-4	4	105
48	Conformational changes of fibrinogen after adsorption. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22027-35	3.4	108
47	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	1.1	126
46	Polymer-Silane Interactions Probed by Sum Frequency Generation Vibrational Spectroscopy 2005 , 81, 319-345		18
45	Collagen adsorption and structure on polymer surfaces observed by atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2005 , 292, 99-107	9.3	39
44	Molecular studies on protein conformations at polymer/liquid interfaces using sum frequency generation vibrational spectroscopy. <i>Surface Science</i> , 2005 , 587, 1-11	1.8	51
43	Detection of chiral sum frequency generation vibrational spectra of proteins and peptides at interfaces in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4978-83	11.5	163
42	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	3.4	45
41	Surface Restructuring of Polystyrene/Polymethacrylate Blends in Water Studied by Atomic Force Microscopy. <i>Langmuir</i> , 2004 , 20, 1928-1933	4	13
40	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, 1174-9	16.4	49
39	Sum Frequency Generation Vibrational Spectroscopy Studies of Protein Adsorption on Oxide-Covered Ti Surfaces. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7779-7787	3.4	34
38	Polarization mapping: a method to improve sum frequency generation spectral analysis. <i>Analytical Chemistry</i> , 2004 , 76, 2159-67	7.8	47
37	Surface restructuring behavior of various types of poly(dimethylsiloxane) in water detected by SFG. <i>Langmuir</i> , 2004 , 20, 10186-93	4	86
36	Sum frequency generation studies at poly(ethylene terephthalate)/silane interfaces: hydrogen bond formation and molecular conformation determination. <i>Langmuir</i> , 2004 , 20, 5467-73	4	54
35	Feature Article: Characterization of Polymer Blends by Atomic Force Microscopy: A Review. <i>Polymer News</i> , 2004 , 29, 176-183		4
34	Sum frequency generation studies on the surface structures of plasticized and unplasticized polyurethane in air and in water. <i>Analytical Chemistry</i> , 2003 , 75, 3275-80	7.8	39

33	Different Molecular Structures at Polymer/Silane Interfaces Detected by SFG. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10440-10445	3.4	51
32	Detecting Molecular-Level Chemical Structure and Group Orientation of Amphiphilic PEOBPOBEO Copolymers at Solution/Air and Solid/Solution Interfaces by SFG Vibrational Spectroscopy. <i>Macromolecules</i> , 2003 , 36, 4478-4484	5.5	37
31	Detection of amide I signals of interfacial proteins in situ using SFG. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9914-5	16.4	128
30	Using Isotope-Labeled Proteins and Sum Frequency Generation Vibrational Spectroscopy to Study Protein Adsorption. <i>Langmuir</i> , 2003 , 19, 7862-7866	4	38
29	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, The</i> , 2003 , 128, 773-8	5	45
28	Detection of Interfacial Structures of Poly(ethylene glycol), Poly(propylene glycol) and Their Copolymers at Liquid/Solid Interfaces Using Sum Frequency Generation Vibrational Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 790, 1		
27	Interaction of fibrinogen with surfaces of end-group-modified polyurethanes: a surface-specific sum-frequency-generation vibrational spectroscopy study. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 254-64		74
26	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	4	42
25	Molecular responses of proteins at different interfacial environments detected by sum frequency generation vibrational spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13302-5	16.4	76
24	Sum Frequency Generation Vibrational Spectroscopy Studies on Molecular Conformation of Liquid Polymers Poly(ethylene glycol) and Poly(propylene glycol) at Different Interfaces. <i>Macromolecules</i> , 2002 , 35, 9130-9135	5.5	74
23	Studies of polymer surfaces by sum frequency generation vibrational spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2002 , 53, 437-65	15.7	475
22	Measuring polymer surface ordering differences in air and water by sum frequency generation vibrational spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7016-23	16.4	167
21	Sum Frequency Generation Vibrational Spectroscopy Studies on Protein Adsorption. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11666-11672	3.4	112
20	Sum Frequency Generation Vibrational Spectroscopy Studies on Buried Polymer/Polymer Interfaces. <i>Macromolecules</i> , 2002 , 35, 8093-8097	5.5	51
19	Different surface-restructuring behaviors of poly(methacrylate)s detected by SFG in water. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9470-1	16.4	139
18	Molecular Chemical Structure on Poly(methyl methacrylate) (PMMA) Surface Studied by Sum Frequency Generation (SFG) Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12118-12125	3.4	262
17	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	16.4	95
16	Raman Spectra of D ₂ in Water and Ice. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3274-3279	3.4	11

15	The interaction of H ₂ with water ice by neutron scattering: Rotation and translation. <i>Journal of Chemical Physics</i> , 1999 , 110, 7354-7358	3.9	9
14	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. <i>Applied Physics B: Lasers and Optics</i> , 1999 , 69, 549-557	1.9	49
13	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	24.3	97
12	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	3.4	40
11	Switching the Jahn-Teller Distortion in Crystalline Ammonium Hexaaquacopper Sulfate (Tutton Salt) with Infrared Radiation. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8789-8796	16.4	14
10	Infrared hole burning of ammonium tartrate: How high a barrier can be overcome?. <i>Journal of Chemical Physics</i> , 1998 , 108, 5522-5528	3.9	5
9	Infrared Spectral Hole Burning of Polymers: A Probe of Local Structure. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 3506-3511	3.4	1
8	Infrared Hole Burning and Crystal Structures of Ammonium Tosylate and Ammonium Triflate. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1640-1645	2.8	5
7	The diffusion of H ₂ in hexagonal ice at low temperatures. <i>Journal of Chemical Physics</i> , 1994 , 101, 7177-7180	3.9	39
6	Phase Relations in the System Al ₂ O ₃ -B ₂ O ₃ -SiO ₂ . <i>Journal of the American Ceramic Society</i> , 1991 , 74, 444-446	3.8	11
5	thermodynamic calculation of atmospheric pressure and high pressure (P = 2500 atm) phase diagram of LiIO ₃ -NaIO ₃ binary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1991 , 15, 185-194	1.9	2
4	Phase diagram of SrO-CaO-CuO ternary system. <i>Solid State Communications</i> , 1990 , 75, 247-252	1.6	55
3	The crystal structure and property of ternary compound and phase relations in the system Pr ₆ O ₁₁ -BaO-CuO sintered at 920°C. <i>Solid State Communications</i> , 1990 , 76, 903-910	1.6	14
2	Characterizing the Interactions between Cell Membranes and Antimicrobials via Sum-Frequency Generation Vibrational Spectroscopy	4.29-4.57	2
1	Enabling Tunable Water-Responsive Surface Adaptation of PDMS via Metal-Ligand Coordinated Dynamic Networks. <i>Advanced Materials Interfaces</i> , 2200430	4.6	1