Franz Geiger

List of Publications by Citations

163 papers	5,507 citations	42 h-index	64 g-index
189 ext. papers	6,135 ext. citations	6.5 avg, IF	5.8 L-index

#	Paper	IF	Citations
163	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 7550-5	11.5	345
162	Second harmonic generation, sum frequency generation, and chi(3): dissecting environmental interfaces with a nonlinear optical Swiss Army knife. *Annual Review of Physical Chemistry*, **2009**, 60, 61-83	15.7	226
161	Aqueous proton transfer across single-layer graphene. *Nature Communications*, **2015**, 6, 6539	17.4	159
160	Second-order spectral lineshapes from charged interfaces. *Nature Communications*, **2017**, 8, 1032	17.4	139
159	Size-dependent changes in sea spray aerosol composition and properties with different seawater conditions. *Environmental Science & Technology*, **2013**, 47, 5603-12	10.3	139
158	Phase-referenced nonlinear spectroscopy of the quartz/water interface. *Nature Communications*, **2016**, 7, 13587	17.4	106
157	Interfacial acidities, charge densities, potentials, and energies of carboxylic acid-functionalized silica/water interfaces determined by second harmonic generation. *Journal of the American Chemical Society*, **2004**, 126, 11754-5	16.4	95
156	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. *ACS Central Science*, **2015**, 1, 117-23	16.8	93
155	Changing shapes and implied viscosities of suspended submicron particles. *Atmospheric Chemistry and Physics*, **2015**, 15, 7819-7829	6.8	89
154	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. *Atmospheric Chemistry and Physics*, **2011**, 11, 10599-10618	6.8	87
153	Raman microspectroscopy and vibrational sum frequency generation spectroscopy as probes of the bulk and surface compositions of size-resolved sea spray aerosol particles. *Physical Chemistry Chemical Physics*, **2013**, 15, 6206-14	3.6	79
152	Hydrogen chloride-induced surface disordering on ice. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 9422-7	11.5	79
151	In-situ probe of gate dielectric-semiconductor interfacial order in organic transistors: origin and control of large performance sensitivities. *Journal of the American Chemical Society*, **2012**, 134, 11726-33	16.4	78
150	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. *Environmental Science & Technology*, **2015**, 49, 10642-50	10.3	76
149	Carboxylic Acid- and Ester-Functionalized Siloxane Scaffolds on Glass Studied by Broadband Sum Frequency Generation. *Journal of Physical Chemistry B*, **2004**, 108, 18675-18682	3.4	75
148	Observations and implications of liquid–liquid phase separation at high relative humidities in secondary organic material produced by <i></i>-pinene ozonolysis without inorganic salts. *Atmospheric Chemistry and Physics*, **2016**, 16, 7969-7979	6.8	72
147	Surface-amplified ligand disorder in CdSe quantum dots determined by electron and coherent vibrational spectroscopies. *Journal of the American Chemical Society*, **2011**, 133, 7476-81	16.4	72

146	Making "sense" of DNA. *Journal of the American Chemical Society*, **2007**, 129, 7492-3	16.4	72
145	Highly Oxygenated Multifunctional Compounds in □Pinene Secondary Organic Aerosol. *Environmental Science & Technology*, **2017**, 51, 5932-5940	10.3	69
144	DNA on Stage: Showcasing Oligonucleotides at Surfaces and Interfaces with Second Harmonic and Vibrational Sum Frequency Generation. *Journal of Physical Chemistry Letters*, **2010**, 1, 9-15	6.4	69
143	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. *Journal of Physical Chemistry C*, **2015**, 119, 534-546	3.8	68
142	Interaction of nitrate, barium, strontium and cadmium ions with fused quartz/water interfaces studied by second harmonic generation. *Journal of Physical Chemistry A*, **2008**, 112, 660-8	2.8	62
141	Synthesis and Second-Harmonic Generation Studies of Noncentrosymmetric Gold Nanostructures. *Journal of Physical Chemistry B*, **1999**, 103, 2668-2673	3.4	61
140	Reduction in local ozone levels in urban S□ Paulo due to a shift from ethanol to gasoline use. *Nature Geoscience*, **2014**, 7, 450-458	18.3	58
139	Heterogeneous ozone oxidation reactions of 1-pentene, cyclopentene, cyclohexene, and a menthenol derivative studied by sum frequency generation. *Journal of Physical Chemistry A*, **2008**, 112, 11688-98	2.8	53
138	Jammed acid-base reactions at interfaces. *Journal of the American Chemical Society*, **2008**, 130, 15444-7	16.4	53
137	Insights into Heterogeneous Atmospheric Oxidation Chemistry: Development of a Tailor-Made Synthetic Model for Studying Tropospheric Surface Chemistry. *Journal of Physical Chemistry C*, **2007**, 111, 1567-1578	3.8	53
136	Bulk Contributions Modulate the Sum-Frequency Generation Spectra of Water on Model Sea-Spray Aerosols. *CheM*, **2018**, 4, 1629-1644	16.2	51
135	Second-Order Vibrational Lineshapes from the Air/Water Interface. *Journal of Physical Chemistry A*, **2018**, 122, 4457-4464	2.8	50
134	Ab Initio Study of HOCl, HCl, H2O, and Cl2 Interacting with Four Water Molecules. *Journal of Physical Chemistry A*, **1998**, 102, 1514-1522	2.8	50
133	An optical voltmeter for studying cetyltrimethylammonium interacting with fused silica/aqueous interfaces at high ionic strength. *Journal of Physical Chemistry A*, **2009**, 113, 4269-80	2.8	48
132	Interaction of hydrogen chloride with ice surfaces: the effects of grain size, surface roughness, and surface disorder. *Journal of Physical Chemistry A*, **2007**, 111, 6274-84	2.8	48
131	Relative permittivity in the electrical double layer from nonlinear optics. *Journal of Chemical Physics*, **2018**, 148, 222808	3.9	47
130	Interactions of Ca, Zn, and Cd Ions at Buried Solid/Water Interfaces Studied by Second Harmonic Generation. *Journal of Physical Chemistry C*, **2009**, 113, 2041-2052	3.8	47
129	The interaction of HCl with the (0001) face of hexagonal ice studied theoretically via Car□arrinello molecular dynamics. *Chemical Physics Letters*, **2001**, 348, 285-292	2.5	47

128	Biogenic and biomass burning organic aerosol in a boreal forest at Hyytiälä, Finland, during HUMPPA-COPEC 2010. *Atmospheric Chemistry and Physics*, **2013**, 13, 12233-12256	6.8	46
127	Uptake of epoxydiol isomers accounts for half of the particle-phase material produced from isoprene photooxidation via the HO2 pathway. *Environmental Science & Technology*, **2015**, 49, 250-8	10.3	45
126	Get charged up: Nonlinear optical voltammetry for quantifying the thermodynamics and electrostatics of metal cations at aqueous/oxide interfaces. *Chemical Physics Letters*, **2010**, 499, 183-192	2.5	45
125	First-principles molecular-dynamics study of surface disordering of the (0001) face of hexagonal ice. *Journal of Chemical Physics*, **2000**, 113, 10733-10743	3.9	45
124	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. *Journal of Physical Chemistry B*, **2016**, 120, 7297-306	3.4	42
123	Accurate line shapes from sub-1 cm(-1) resolution sum frequency generation vibrational spectroscopy of α-pinene at room temperature. *Journal of Physical Chemistry A*, **2015**, 119, 1292-302	2.8	42
122	Adsorption Entropies and Enthalpies and Their Implications for Adsorbate Dynamics. *Journal of Physical Chemistry C*, **2009**, 113, 2806-2815	3.8	42
121	Atmospheric heterogeneous stereochemistry. *Journal of the American Chemical Society*, **2009**, 131, 13733-7	14.4	42
120	Second harmonic generation phase measurements of Cr(VI) at a buried interface. *Journal of Physical Chemistry B*, **2005**, 109, 24386-90	3.4	42
119	Hydrogen-Bond Networks near Supported Lipid Bilayers from Vibrational Sum Frequency Generation Experiments and Atomistic Simulations. *Journal of Physical Chemistry B*, **2018**, 122, 4870-4879	3.4	40
118	Size-resolved sea spray aerosol particles studied by vibrational sum frequency generation. *Journal of Physical Chemistry A*, **2013**, 117, 6589-601	2.8	38
117	Photochemistry of the indoor air pollutant acetone on Degussa P25 TiO2 studied by chemical ionization mass spectrometry. *Journal of Physical Chemistry A*, **2007**, 111, 13023-31	2.8	38
116	Pentane, Hexane, Cyclopentane, Cyclohexane, 1-Hexene, 1-Pentene, cis-2-Pentene, Cyclohexene, and Cyclopentene at Vapor/α-Alumina and Liquid/α-Alumina Interfaces Studied by Broadband Sum Frequency Generation. *Journal of Physical Chemistry C*, **2010**, 114, 554-566	3.8	37
115	Beyond the Gouy-Chapman Model with Heterodyne-Detected Second Harmonic Generation. *Journal of Physical Chemistry Letters*, **2019**, 10, 2328-2334	6.4	36
114	Organic constituents on the surfaces of aerosol particles from Southern Finland, Amazonia, and California studied by vibrational sum frequency generation. *Journal of Physical Chemistry A*, **2012**, 116, 8271-90	2.8	36
113	DNA single strands tethered to fused quartz/water interfaces studied by second harmonic generation. *Journal of the American Chemical Society*, **2005**, 127, 15368-9	16.4	36
112	Chromium(VI) binding to functionalized silica/water interfaces studied by nonlinear optical spectroscopy. *Journal of the American Chemical Society*, **2004**, 126, 11126-7	16.4	36
111	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. *Vibrational Spectroscopy*, **2009**, 50, 86-98	2.1	35

110	Kinetic studies of chromium (VI) binding to carboxylic acid- and methyl ester-functionalized silica/water interfaces important in geochemistry. *Journal of Physical Chemistry B*, **2005**, 109, 16852-9	3.4	35
109	Kinetics of Chromate Adsorption and Desorption at Fused Quartz/Water Interfaces Studied by Second Harmonic Generation. *Journal of Physical Chemistry A*, **2003**, 107, 9620-9627	2.8	35
108	First-Principles Theoretical Study of Molecular HCl Adsorption on a Hexagonal Ice (0001) Surface. *Journal of Physical Chemistry A*, **2001**, 105, 7037-7046	2.8	34
107	DNA at aqueous/solid interfaces: chirality-based detection via second harmonic generation activity. *Journal of the American Chemical Society*, **2009**, 131, 844-8	16.4	33
106	Control of carboxylic acid and ester groups on chromium (VI) binding to functionalized silica/water interfaces studied by second harmonic generation. *Journal of Physical Chemistry B*, **2005**, 109, 9691-702	3.4	33
105	Alteration of Membrane Compositional Asymmetry by LiCoO2 Nanosheets. *ACS Nano*, **2015**, 9, 8755-65	16.7	32
104	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. *CheM*, **2018**, 4, 318-333	16.2	32
103	Interaction of Cr(III) and Cr(VI) with Hematite Studied by Second Harmonic Generation. *Journal of Physical Chemistry C*, **2013**, 117, 5164-5171	3.8	32
102	Displacement of hexanol by the hexanoic acid overoxidation product in alcohol oxidation on a model supported palladium nanoparticle catalyst. *Journal of the American Chemical Society*, **2011**, 133, 17816-23	16.4	31
101	Quantifying the Electrostatics of Polycation-Lipid Bilayer Interactions. *Journal of the American Chemical Society*, **2017**, 139, 5808-5816	16.4	29
100	Two reactivity modes in the heterogeneous cyclohexene ozonolysis under tropospherically relevant ozone-rich and ozone-limited conditions. *Journal of Physical Chemistry A*, **2009**, 113, 8985-93	2.8	29
99	Interaction of Chromium(VI) with the Aluminum Oxide Water Interface. *Journal of Physical Chemistry C*, **2008**, 112, 2032-2039	3.8	29
98	Surface Studies of Chromate Binding to Fused Quartz/Water Interfaces. *Journal of Physical Chemistry A*, **2003**, 107, 6212-6217	2.8	29
97	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. *Atmospheric Chemistry and Physics*, **2018**, 18, 10433-10457	6.8	29
96	Specific and nonspecific metal ion-nucleotide interactions at aqueous/solid interfaces functionalized with adenine, thymine, guanine, and cytosine oligomers. *Journal of the American Chemical Society*, **2011**, 133, 2567-70	16.4	28
95	Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline *Journal of Physical Chemistry C*, **2007**, 111, 8796-8804	3.8	28
94	Second Harmonic Generation Studies of Ozone Depletion Reactions on Ice Surfaces under Stratospheric Conditions. *Journal of Physical Chemistry B*, **1999**, 103, 8205-8215	3.4	28
93	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. *CheM*, **2018**, 4, 2709-2723	16.2	28

92	Cloud Activation Potentials for Atmospheric -Pinene and -Caryophyllene Ozonolysis Products. *ACS Central Science*, **2017**, 3, 715-725	16.8	27
91	The effect of hydroxyl functional groups and molar mass on the viscosity of non-crystalline organic and organic-water particles. *Atmospheric Chemistry and Physics*, **2017**, 17, 8509-8524	6.8	27
90	Vibrational sum frequency generation spectroscopy of secondary organic material produced by condensational growth from -pinene ozonolysis. *Journal of Physical Chemistry A*, **2013**, 117, 8427-36	2.8	27
89	Contrasting organic aerosol particles from boreal and tropical forests during HUMPPA-COPEC-2010 and AMAZE-08 using coherent vibrational spectroscopy. *Atmospheric Chemistry and Physics*, **2011**, 11, 10317-10329	6.8	27
88	Nonlinear optical studies of the agricultural antibiotic morantel interacting with silica/water interfaces. *Journal of the American Chemical Society*, **2005**, 127, 15771-7	16.4	27
87	Free energy relationships in the electrical double layer over single-layer graphene. *Journal of the American Chemical Society*, **2013**, 135, 979-81	16.4	26
86	Structure of the cetyltrimethylammonium surfactant at fused silica/aqueous interfaces studied by vibrational sum frequency generation. *Journal of Physical Chemistry B*, **2010**, 114, 4495-502	3.4	26
85	When the solute becomes the solvent: orientation, ordering, and structure of binary mixtures of 1-hexanol and cyclohexane over the (0001) -Al2O3 surface. *Journal of the American Chemical Society*, **2010**, 132, 14661-8	16.4	26
84	Towards the identification of molecular constituents associated with the surfaces of isoprene-derived secondary organic aerosol (SOA) particles. *Atmospheric Chemistry and Physics*, **2014**, 14, 2303-2314	6.8	25
83	Phenylacetylene one-dimensional nanostructures on the Si(100)-2 x 1:H surface. *Journal of the American Chemical Society*, **2010**, 132, 3013-9	16.4	25
82	Vibrational Mode Assignment of -Pinene by Isotope Editing: One Down, Seventy-One To Go. *Journal of Physical Chemistry A*, **2016**, 120, 2684-90	2.8	25
81	On Electronic and Charge Interference in Second Harmonic Generation Responses from Gold Metal Nanoparticles at Supported Lipid Bilayers. *Journal of Physical Chemistry C*, **2016**, 120, 20659-20667	3.8	24
80	On surface order and disorder of -pinene-derived secondary organic material. *Journal of Physical Chemistry A*, **2015**, 119, 4609-17	2.8	24
79	Free Energy Relationships in the Electric Double Layer and Alkali Earth Speciation at the Fused Silica/Water Interface. *Journal of Physical Chemistry C*, **2009**, 113, 17795-17802	3.8	24
78	Reduced ultrafine particle levels in S- Paulo- atmosphere during shifts from gasoline to ethanol use. *Nature Communications*, **2017**, 8, 77	17.4	23
77	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. *Journal of Physical Chemistry B*, **2019**, 123, 5848-5856	3.4	22
76	Interactions of Al(III), La(III), Gd(III), and Lu(III) with the fused silica/water interface studied by second harmonic generation. *Environmental Science & Technology*, **2010**, 44, 5862-7	10.3	22
75	Uranyl adsorption and speciation at the fused silica/water interface studied by resonantly enhanced second harmonic generation and the chi(3) method. *Journal of Physical Chemistry A*, **2010**, 114, 1797-805	2.8	22

74	U(VI) Adsorption and Speciation at the Acidic Silica/Water Interface Studied by Resonant and Nonresonant Second Harmonic Generation. *Journal of Physical Chemistry C*, **2011**, 115, 13353-13360	3.8	22
73	Investigations into Apopinene as a Biorenewable Monomer for Ring-Opening Metathesis Polymerization. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 1278-1281	8.3	21
72	Counting charges on membrane-bound peptides. *Chemical Science*, **2018**, 9, 4285-4298	9.4	21
71	Anion chelation by amido acid functionalized fused quartz/water interfaces studied by nonlinear optics. *Journal of the American Chemical Society*, **2007**, 129, 7175-84	16.4	21
70	Interaction of the indoor air pollutant acetone with Degussa P25 TiO2 studied by chemical ionization mass spectrometry. *Langmuir*, **2006**, 22, 9642-50	4	21
69	Zinc Interactions with Glucosamine-Functionalized Fused Silica/Water Interfaces. *Journal of Physical Chemistry C*, **2010**, 114, 19483-19488	3.8	20
68	Interfacial electrostatics of poly(vinylamine hydrochloride), poly(diallyldimethylammonium chloride), poly-l-lysine, and poly-l-arginine interacting with lipid bilayers. *Physical Chemistry Chemical Physics*, **2018**, 20, 10846-10856	3.6	19
67	Hydrocarbon on Carbon: Coherent Vibrational Spectroscopy of Toluene on Graphite. *Journal of Physical Chemistry Letters*, **2012**, 3, 280-2	6.4	19
66	Uranyl adsorption at the muscovite (mica)/water interface studied by second harmonic generation. *Environmental Science & Technology*, **2012**, 46, 11154-61	10.3	19
65	Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulations Reveal a Rotationally Fluid Adsorption State of □Pinene on Silica. *Journal of Physical Chemistry C*, **2016**, 120, 12578-12589	3.8	18
64	Exponential sensitivity and speciation of Al(III), Sc(III), Y(III), La(III), and Gd(III) at fused silica/water interfaces. *Journal of Physical Chemistry A*, **2011**, 115, 14438-45	2.8	18
63	Direct Measurement of Charge Reversal on Lipid Bilayers Using Heterodyne-Detected Second Harmonic Generation Spectroscopy. *Journal of Physical Chemistry B*, **2020**, 124, 641-649	3.4	18
62	Second Harmonic Generation Studies of Fe(II) Interactions with Hematite (□Fe2O3). *Journal of Physical Chemistry C*, **2013**, 117, 4040-4047	3.8	17
61	Interaction of magnesium ions with pristine single-layer and defected graphene/water interfaces studied by second harmonic generation. *Journal of Physical Chemistry B*, **2014**, 118, 7739-49	3.4	16
60	Arylsilanated SiOx Surfaces for Mild and Simple Two-Step Click Functionalization with Small Molecules and Oligonucleotides. *Journal of Physical Chemistry C*, **2012**, 116, 19886-19892	3.8	16
59	Method for Evaluating Vibrational Mode Assignments in Surface-Bound Cyclic Hydrocarbons Using Sum-Frequency Generation. *Journal of Physical Chemistry C*, **2011**, 115, 18284-18294	3.8	16
58	Tracking oxytetracyline mobility across environmental interfaces by second harmonic generation. *Journal of Physical Chemistry B*, **2006**, 110, 22577-85	3.4	16
57	The Hydrolysis of Chlorine Nitrate on Ice Is Autocatalytic. *Journal of Physical Chemistry A*, **2001**, 105, 4940-4945	2.8	16

56	A New Imaginary Term in the Second-Order Nonlinear Susceptibility from Charged Interfaces. *Journal of Physical Chemistry Letters*, **2021**, 12, 5649-5659	6.4	16
55	Polycation Interactions with Zwitterionic Phospholipid Monolayers on Oil Nanodroplet Suspensions in Water (DO) Probed by Sum Frequency Scattering. *Journal of Physical Chemistry B*, **2018**, 122, 5049-5056	3.4	15
54	Counting the number of magnesium ions bound to the surface-immobilized thymine oligonucleotides that comprise spherical nucleic acids. *Journal of the American Chemical Society*, **2013**, 135, 17339-48	16.4	15
53	Stereochemical transfer to atmospheric aerosol particles accompanying the oxidation of biogenic volatile organic compounds. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	15
52	On molecular chirality within naturally occurring secondary organic aerosol particles from the central Amazon Basin. *Physical Chemistry Chemical Physics*, **2011**, 13, 12114-22	3.6	15
51	Beyond local group modes in vibrational sum frequency generation. *Journal of Physical Chemistry A*, **2015**, 119, 3407-14	2.8	14
50	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. *Journal of Chemical Education*, **2014**, 91, 1600-1605	2.4	14
49	Divalent metal cation speciation and binding to surface-bound oligonucleotide single strands studied by second harmonic generation. *Journal of Physical Chemistry B*, **2011**, 115, 8338-45	3.4	14
48	Single-component supported lipid bilayers probed using broadband nonlinear optics. *Physical Chemistry Chemical Physics*, **2018**, 20, 3063-3072	3.6	13
47	Assessment of DFT for Computing Sum Frequency Generation Spectra of an Epoxydiol and a Deuterated Isotopologue at Fused Silica/Vapor Interfaces. *Journal of Physical Chemistry B*, **2016**, 120, 1919-27	3.4	13
46	Interactions of Organic Solvents at Graphene/□Al2O3 and Graphene Oxide/□Al2O3 Interfaces Studied by Sum Frequency Generation. *Journal of Physical Chemistry C*, **2014**, 118, 17745-17755	3.8	13
45	Climate-relevant physical properties of molecular constituents for isoprene-derived secondary organic aerosol material. *Atmospheric Chemistry and Physics*, **2014**, 14, 10731-10740	6.8	13
44	Zinc Ion□Hydroxyl Interactions at Undecanol-Functionalized Fused Silica/Water Interfaces Using the Eisenthal (□) Technique. *Journal of Physical Chemistry C*, **2012**, 116, 7016-7020	3.8	13
43	Energy conversion via metal nanolayers. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16210-16215	11.5	12
42	Evidence for Considerable Metal Cation Concentrations from Lithium Intercalation Compounds in the Nano□Bio Interface Gap. *Journal of Physical Chemistry C*, **2017**, 121, 27473-27482	3.8	12
41	Unanticipated Stickiness of □Pinene. *Journal of Physical Chemistry A*, **2017**, 121, 3239-3246	2.8	11
40	Perturbation of Hydrogen-Bonding Networks over Supported Lipid Bilayers by Poly(allylamine hydrochloride). *Journal of Physical Chemistry B*, **2019**, 123, 4251-4257	3.4	11
39	In Situ Ni Stain for Liposome Imaging by Liquid-Cell Transmission Electron Microscopy. *Nano Letters*, **2020**, 20, 4292-4297	11.5	11

38	Second harmonic generation imaging with a kHz amplifier [Invited]. *Optical Materials Express*, **2011**, 1, 57	2.6	11
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35	Resonantly Enhanced Nonlinear Optical Probes of Oxidized Multiwalled Carbon Nanotubes at Supported Lipid Bilayers. *Journal of Physical Chemistry B*, **2017**, 121, 1321-1329	3.4	10
34	Probing Surface-Adlayer Conjugation on Organic-Modified Si(111) Surfaces with Microscopy, Scattering, Spectroscopy, and Density Functional Theory. *Journal of Physical Chemistry C*, **2009**, 113, 2919-2927	3.8	10
33	Precipitates of Al(III), Sc(III), and La(III) at the muscovite-water interface. *Journal of Physical Chemistry A*, **2014**, 118, 10974-81	2.8	9
32	Stern and Diffuse Layer Interactions during Ionic Strength Cycling. *Journal of Physical Chemistry C*, **2021**, 125, 18002-18014	3.8	9
31	Orientations of nonlocal vibrational modes from combined experimental and theoretical sum frequency spectroscopy. *Chemical Physics Letters*, **2017**, 683, 199-204	2.5	8
30	Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. *Cell Reports Physical Science*, **2020**, 1, 100256	6.1	8
29	Importance of length and sequence order on magnesium binding to surface-bound oligonucleotides studied by second harmonic generation and atomic force microscopy. *Journal of Physical Chemistry B*, **2012**, 116, 6302-10	3.4	8
28	Electrostatics, Hydrogen Bonding, and Molecular Structure at Polycation and Peptide:Lipid Membrane Interfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 21149-21158	9.5	8
27	Partially (resp. fully) reversible adsorption of monoterpenes (resp. alkanes and cycloalkanes) to fused silica. *Journal of Chemical Physics*, **2019**, 150, 074701	3.9	7
26	Molecular Orientation at the Squalene/Air Interface from Sum Frequency Generation Spectroscopy and Atomistic Modeling. *Journal of Physical Chemistry B*, **2021**, 125, 3932-3941	3.4	7
25	Identification of binding sites for acetaldehyde adsorption on titania nanorod surfaces using CIMS. *Langmuir*, **2011**, 27, 14842-8	4	6
24	Sedimentation Time Measurements of Soil Particles by Light Scattering and Determination of Chromium, Lead, and Iron in Soil Samples via ICP. *Journal of Chemical Education*, **2005**, 82, 1542	2.4	6
23	Atmospheric ß-Caryophyllene-Derived Ozonolysis Products at Interfaces. *ACS Earth and Space Chemistry*, **2019**, 3, 158-169	3.2	6
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21	Synthesis and surface spectroscopy of α-pinene isotopologues and their corresponding secondary organic material. *Chemical Science*, **2019**, 10, 8390-8398	9.4	4

20	Synthesis and Characterization of Chemically Pure Nanometer-Thin Zero-Valent Iron Films and Their Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 23256-23263	3.8	4
19	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. *Journal of Visualized Experiments*, **2018**,	1.6	4
18	Surface-Active Caryophyllene Oxidation Products at the Air/Aqueous Interface. *ACS Earth and Space Chemistry*, **2019**, 3, 1740-1748	3.2	3
17	Y(III) interactions with guanine oligonucleotides covalently attached to aqueous/solid interfaces. *Journal of Physical Chemistry B*, **2013**, 117, 825-32	3.4	3
16	Liquid–liquid phase separation and morphologies in organic particles consisting of <i></i>-pinene and <i></i>-caryophyllene ozonolysis products and mixtures with commercially available organic compounds. *Atmospheric Chemistry and Physics*, **2020**, 20, 11263-11273	6.8	3
15	Divalent Ion Specific Outcomes on Stern Layer Structure and Total Surface Potential at the Silica:Water Interface. *Journal of Physical Chemistry A*, **2021**, 125, 10079-10088	2.8	3
14	Bacterial Model Membranes Deform (resp. Persist) upon Ni Binding to Inner Core (resp. O-Antigen) of Lipopolysaccharides. *Journal of Physical Chemistry B*, **2019**, 123, 4258-4270	3.4	2
13	Interaction of Aluminum Ions with Fused Silica/Water Interfaces in the Presence of Oxalic Acid Tracked by Second Harmonic Generation. *Journal of Physical Chemistry C*, **2014**, 118, 28970-28977	3.8	2
12	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. *Atmospheric Chemistry and Physics*, **2018**, 18, 10433-10457	6.8	2
11	Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. *Journal of Visualized Experiments*, **2018**,	1.6	2
10	Dendritic Oxide Growth in Zerovalent Iron Nanofilms Revealed by Atom Probe Tomography. *Journal of Physical Chemistry C*, **2018**, 122, 28225-28232	3.8	2
9	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. *Journal of Physical Chemistry C*, **2019**,	3.8	1
8	A tribute to Mario Molina. *Journal of Physical Chemistry A*, **2015**, 119, 4277-8	2.8	1
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2	How Open Is Open Access?. *Journal of Physical Chemistry Letters*, **2015**, 6, 1246-8	6.4	0
1	Molecular Chirality and Cloud Activation Potentials of Dimeric □Pinene Oxidation Products. *Journal of the American Chemical Society*, **2021**, 143, 16653-16662	16.4	0