

Franz Geiger

List of Publications by Year in descending order

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169
papers

6,651
citations

57631

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times ranked

6428
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Orientation at the Squalene/Air Interface from Sum Frequency Generation Spectroscopy and Atomistic Modeling. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3932-3941.	1.2	13
2	A New Imaginary Term in the Second-Order Nonlinear Susceptibility from Charged Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5649-5659.	2.1	32
3	Stern and Diffuse Layer Interactions during Ionic Strength Cycling. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18002-18014.	1.5	20
4	A Virtual Issue on Aqueous Interfaces. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10401-10403.	1.2	3
5	Molecular Chirality and Cloud Activation Potentials of Dimeric α -Pinene Oxidation Products. <i>Journal of the American Chemical Society</i> , 2021, 143, 16653-16662.	6.6	9
6	Divalent Ion Specific Outcomes on Stern Layer Structure and Total Surface Potential at the Silica:Water Interface. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10079-10088.	1.1	15
7	Direct Measurement of Charge Reversal on Lipid Bilayers Using Heterodyne-Detected Second Harmonic Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 641-649.	1.2	25
8	Electrostatics, Hydrogen Bonding, and Molecular Structure at Polycation and Peptide:Lipid Membrane Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21149-21158.	4.0	15
9	Virtual Issue in Atmospheric Chemistry Research. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5697-5699.	1.1	3
10	Virtual Issue in Atmospheric Chemistry Research. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 958-960.	1.2	0
11	Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. <i>Cell Reports Physical Science</i> , 2020, 1, 100256.	2.8	22
12	In Situ Ni ²⁺ Stain for Liposome Imaging by Liquid-Cell Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 4292-4297.	4.5	21
13	Mario Molina, 1943–2020. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10921-10922.	1.1	1
14	Liquid–liquid phase separation and morphologies in organic particles consisting of α -pinene and β -caryophyllene ozonolysis products and mixtures with commercially available organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11263-11273.	1.9	6
15	Surface-Active β -Caryophyllene Oxidation Products at the Air/Aqueous Interface. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1740-1748.	1.2	8
16	Synthesis and surface spectroscopy of α -pinene isotopologues and their corresponding secondary organic material. <i>Chemical Science</i> , 2019, 10, 8390-8398.	3.7	8
17	Energy conversion via metal nanolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16210-16215.	3.3	26
18	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5837-5848.	1.1	2

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19	The <i>JPC</i> Periodic Table. Journal of Physical Chemistry B, 2019, 123, 5973-5984.	1.2	1
20	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. Journal of Physical Chemistry B, 2019, 123, 5848-5856.	1.2	30
21	The <i>JPC</i> Periodic Table. Journal of Physical Chemistry C, 2019, 123, 17063-17074.	1.5	1
22	The <i>JPC</i> Periodic Table. Journal of Physical Chemistry Letters, 2019, 10, 4051-4062.	2.1	2
23	Beyond the Gouy-Chapman Model with Heterodyne-Detected Second Harmonic Generation. Journal of Physical Chemistry Letters, 2019, 10, 2328-2334.	2.1	63
24	Bacterial Model Membranes Deform (<i>resp</i>. Persist) upon Ni ²⁺ Binding to Inner Core (<i>resp</i>. O-Antigen) of Lipopolysaccharides. Journal of Physical Chemistry B, 2019, 123, 4258-4270.	1.2	2
25	Perturbation of Hydrogen-Bonding Networks over Supported Lipid Bilayers by Poly(allylamine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 462	1.2	17
26	Partially (<i>resp</i>. fully) reversible adsorption of monoterpenes (<i>resp</i>. alkanes and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	1.2	10
27	Atmospheric \hat{I}^2 -Caryophyllene-Derived Ozonolysis Products at Interfaces. ACS Earth and Space Chemistry, 2019, 3, 158-169.	1.2	10
28	Interfacial electrostatics of poly(vinylamine hydrochloride), poly(diallyldimethylammonium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td Physical Chemistry Chemical Physics, 2018, 20, 10846-10856.	1.3	19
29	Polycation Interactions with Zwitterionic Phospholipid Monolayers on Oil Nanodroplet Suspensions in Water (D ₂ O) Probed by Sum Frequency Scattering. Journal of Physical Chemistry B, 2018, 122, 5049-5056.	1.2	19
30	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.	1.2	47
31	Second-Order Vibrational Lineshapes from the Air/Water Interface. Journal of Physical Chemistry A, 2018, 122, 4457-4464.	1.1	63
32	Counting charges on membrane-bound peptides. Chemical Science, 2018, 9, 4285-4298.	3.7	23
33	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. Chem, 2018, 4, 318-333.	5.8	40
34	Relative permittivity in the electrical double layer from nonlinear optics. Journal of Chemical Physics, 2018, 148, 222808.	1.2	54
35	Single-component supported lipid bilayers probed using broadband nonlinear optics. Physical Chemistry Chemical Physics, 2018, 20, 3063-3072.	1.3	15
36	Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. Journal of Visualized Experiments, 2018, , .	0.2	3

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37	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
38	Dendritic Oxide Growth in Zerovalent Iron Nanofilms Revealed by Atom Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28225-28232.	1.5	3
39	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. <i>CheM</i> , 2018, 4, 2709-2723.	5.8	46
40	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	1.9	53
41	Bulk Contributions Modulate the Sum-Frequency Generation Spectra of Water on Model Sea-Spray Aerosols. <i>CheM</i> , 2018, 4, 1629-1644.	5.8	69
42	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	1.9	22
43	Resonantly Enhanced Nonlinear Optical Probes of Oxidized Multiwalled Carbon Nanotubes at Supported Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1321-1329.	1.2	10
44	Orientations of nonlocal vibrational modes from combined experimental and theoretical sum frequency spectroscopy. <i>Chemical Physics Letters</i> , 2017, 683, 199-204.	1.2	8
45	Highly Oxygenated Multifunctional Compounds in α -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 5932-5940.	4.6	93
46	Unanticipated Stickiness of α -Pinene. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3239-3246.	1.1	14
47	Quantifying the Electrostatics of Polycation-Lipid Bilayer Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 5808-5816.	6.6	38
48	Environmental Processes at the Solid-Liquid Interface: What Constitutes New Physical Insights?. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5947-5947.	1.1	2
49	Reduced ultrafine particle levels in São Paulo's atmosphere during shifts from gasoline to ethanol use. <i>Nature Communications</i> , 2017, 8, 77.	5.8	31
50	Environmental Processes at the Solid-Liquid Interface: What Constitutes New Physical Insights?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17045-17045.	1.5	1
51	Evidence for Considerable Metal Cation Concentrations from Lithium Intercalation Compounds in the Nano-Bio Interface Gap. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27473-27482.	1.5	13
52	Second-order spectral lineshapes from charged interfaces. <i>Nature Communications</i> , 2017, 8, 1032.	5.8	193
53	Cloud Activation Potentials for Atmospheric α -Pinene and β -Caryophyllene Ozonolysis Products. <i>ACS Central Science</i> , 2017, 3, 715-725.	5.3	40
54	The effect of hydroxyl functional groups and molar mass on the viscosity of non-crystalline organic and organic-water particles. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8509-8524.	1.9	35

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55	Phase-referenced nonlinear spectroscopy of the $\hat{\pm}$ -quartz/water interface. <i>Nature Communications</i> , 2016, 7, 13587.	5.8	130
56	Vibrational Mode Assignment of $\hat{\pm}$ -Pinene by Isotope Editing: One Down, Seventy-One To Go. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2684-2690.	1.1	29
57	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7297-7306.	1.2	52
58	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by $\hat{\pm}$ -pinene ozonolysis without inorganic salts. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7969-7979.	1.9	93
59	On Electronic and Charge Interference in Second Harmonic Generation Responses from Gold Metal Nanoparticles at Supported Lipid Bilayers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20659-20667.	1.5	29
60	Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulations Reveal a Rotationally Fluid Adsorption State of $\hat{\pm}$ -Pinene on Silica. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12578-12589.	1.5	29
61	Assessment of DFT for Computing Sum Frequency Generation Spectra of an Epoxydiol and a Deuterated Isotopologue at Fused Silica/Vapor Interfaces. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1919-1927.	1.2	17
62	Changing shapes and implied viscosities of suspended submicron particles. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7819-7829.	1.9	106
63	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. <i>ACS Central Science</i> , 2015, 1, 117-123.	5.3	121
64	On Surface Order and Disorder of $\hat{\pm}$ -Pinene-Derived Secondary Organic Material. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4609-4617.	1.1	27
65	Accurate Line Shapes from Sub-1 cm^{-1} Resolution Sum Frequency Generation Vibrational Spectroscopy of $\hat{\pm}$ -Pinene at Room Temperature. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1292-1302.	1.1	49
66	Uptake of Epoxydiol Isomers Accounts for Half of the Particle-Phase Material Produced from Isoprene Photooxidation via the HO_2 Pathway. <i>Environmental Science & Technology</i> , 2015, 49, 250-258.	4.6	48
67	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. <i>Environmental Science & Technology</i> , 2015, 49, 10642-10650.	4.6	103
68	A Tribute to Mario Molina. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4277-4278.	1.1	2
69	Investigations into Apopinene as a Biorenewable Monomer for Ring-Opening Metathesis Polymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1278-1281.	3.2	26
70	How Open Is Open Access?. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1246-1248.	2.1	1
71	Aqueous proton transfer across single-layer graphene. <i>Nature Communications</i> , 2015, 6, 6539.	5.8	214
72	Beyond Local Group Modes in Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3407-3414.	1.1	18

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73	Alteration of Membrane Compositional Asymmetry by LiCoO ₂ Nanosheets. ACS Nano, 2015, 9, 8755-8765.	7.3	38
74	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. Journal of Physical Chemistry C, 2015, 119, 534-546.	1.5	77
75	A General Chemistry Assignment Analyzing Environmental Contamination for the DePue, IL, National Superfund Site. Journal of Chemical Education, 2015, 92, 638-642.	1.1	4
76	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.	1.5	2
77	Reduction in local ozone levels in urban São Paulo due to a shift from ethanol to gasoline use. Nature Geoscience, 2014, 7, 450-458.	5.4	71
78	Precipitates of Al(III), Sc(III), and La(III) at the Muscovite/Water Interface. Journal of Physical Chemistry A, 2014, 118, 10974-10981.	1.1	11
79	Interactions of Organic Solvents at Graphene/Al ₂ O ₃ and Graphene Oxide/Al ₂ O ₃ Interfaces Studied by Sum Frequency Generation. Journal of Physical Chemistry C, 2014, 118, 17745-17755.	1.5	13
80	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, 7739-7749.	1.2	18
81	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. Journal of Chemical Education, 2014, 91, 1600-1605.	1.1	21
82	Synthesis and Characterization of Chemically Pure Nanometer-Thin Zero-Valent Iron Films and Their Surfaces. Journal of Physical Chemistry C, 2014, 118, 23256-23263.	1.5	6
83	Climate-relevant physical properties of molecular constituents for isoprene-derived secondary organic aerosol material. Atmospheric Chemistry and Physics, 2014, 14, 10731-10740.	1.9	14
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.	1.9	29
85	Y(III) Interactions with Guanine Oligonucleotides Covalently Attached to Aqueous/Solid Interfaces. Journal of Physical Chemistry B, 2013, 117, 825-832.	1.2	3
86	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, 17339-17348.	6.6	17
87	Free Energy Relationships in the Electrical Double Layer over Single-Layer Graphene. Journal of the American Chemical Society, 2013, 135, 979-981.	6.6	28
88	Size-Dependent Changes in Sea Spray Aerosol Composition and Properties with Different Seawater Conditions. Environmental Science & Technology, 2013, 47, 5603-5612.	4.6	175
89	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.	1.3	103
90	Second Harmonic Generation Studies of Fe(II) Interactions with Hematite (Fe ₂ O ₃). Journal of Physical Chemistry C, 2013, 117, 4040-4047.	1.5	20

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91	Interaction of Cr(III) and Cr(VI) with Hematite Studied by Second Harmonic Generation. Journal of Physical Chemistry C, 2013, 117, 5164-5171.	1.5	41
92	Vibrational Sum Frequency Generation Spectroscopy of Secondary Organic Material Produced by Condensational Growth from α -Pinene Ozonolysis. Journal of Physical Chemistry A, 2013, 117, 8427-8436.	1.1	29
93	Size-Resolved Sea Spray Aerosol Particles Studied by Vibrational Sum Frequency Generation. Journal of Physical Chemistry A, 2013, 117, 6589-6601.	1.1	50
94	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, 7550-7555.	3.3	439
95	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.	1.9	53
96	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, 6302-6310.	1.2	9
97	Hydrocarbon on Carbon: Coherent Vibrational Spectroscopy of Toluene on Graphite. Journal of Physical Chemistry Letters, 2012, 3, 280-282.	2.1	20
98	Arylsilanated SiO ₂ Surfaces for Mild and Simple Two-Step Click Functionalization with Small Molecules and Oligonucleotides. Journal of Physical Chemistry C, 2012, 116, 19886-19892.	1.5	17
99	Zinc Ion ²⁺ -Hydroxyl Interactions at Undecanol-Functionalized Fused Silica/Water Interfaces Using the Eisenthal I^2A Technique. Journal of Physical Chemistry C, 2012, 116, 7016-7020.	1.5	15
100	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, 8271-8290.	1.1	41
101	Uranyl Adsorption at the Muscovite (Mica)/Water Interface Studied by Second Harmonic Generation. Environmental Science & Technology, 2012, 46, 11154-11161.	4.6	25
102	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, 11726-11733.	6.6	86
103	On molecular chirality within naturally occurring secondary organic aerosol particles from the central Amazon Basin. Physical Chemistry Chemical Physics, 2011, 13, 12114.	1.3	18
104	Method for Evaluating Vibrational Mode Assignments in Surface-Bound Cyclic Hydrocarbons Using Sum-Frequency Generation. Journal of Physical Chemistry C, 2011, 115, 18284-18294.	1.5	17
105	Specific and Nonspecific Metal Ion ²⁺ -Nucleotide Interactions at Aqueous/Solid Interfaces Functionalized with Adenine, Thymine, Guanine, and Cytosine Oligomers. Journal of the American Chemical Society, 2011, 133, 2567-2570.	6.6	29
106	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, 17816-17823.	6.6	35
107	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.	1.5	24
108	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, 14438-14445.	1.1	19

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109	Divalent Metal Cation Speciation and Binding to Surface-Bound Oligonucleotide Single Strands Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8338-8345.	1.2	14
110	Stereochemical transfer to atmospheric aerosol particles accompanying the oxidation of biogenic volatile organic compounds. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	18
111	Identification of Binding Sites for Acetaldehyde Adsorption on Titania Nanorod Surfaces Using CIMS. <i>Langmuir</i> , 2011, 27, 14842-14848.	1.6	6
112	Second harmonic generation imaging with a kHz amplifier [Invited]. <i>Optical Materials Express</i> , 2011, 1, 57.	1.6	14
113	Surface-Amplified Ligand Disorder in CdSe Quantum Dots Determined by Electron and Coherent Vibrational Spectroscopies. <i>Journal of the American Chemical Society</i> , 2011, 133, 7476-7481.	6.6	80
114	Contrasting organic aerosol particles from boreal and tropical forests during HUMPPA-COPEC-2010 and AMAZE-08 using coherent vibrational spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10317-10329.	1.9	30
115	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10599-10618.	1.9	108
116	Get charged up: Nonlinear optical voltammetry for quantifying the thermodynamics and electrostatics of metal cations at aqueous/oxide interfaces. <i>Chemical Physics Letters</i> , 2010, 499, 183-192.	1.2	51
117	Structure of the Cetyltrimethylammonium Surfactant at Fused Silica/Aqueous Interfaces Studied by Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4495-4502.	1.2	29
118	Phenylacetylene One-Dimensional Nanostructures on the Si(100)-2 × 1:H Surface. <i>Journal of the American Chemical Society</i> , 2010, 132, 3013-3019.	6.6	26
119	Pentane, Hexane, Cyclopentane, Cyclohexane, 1-Hexene, 1-Pentene, <i>cis</i> -2-Pentene, Cyclohexene, and Cyclopentene at Vapor/Alumina and Liquid/Alumina Interfaces Studied by Broadband Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 554-566.	1.5	39
120	DNA on Stage: Showcasing Oligonucleotides at Surfaces and Interfaces with Second Harmonic and Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 9-15.	2.1	75
121	Interactions of Al(III), La(III), Gd(III), and Lu(III) with the Fused Silica/Water Interface Studied by Second Harmonic Generation. <i>Environmental Science & Technology</i> , 2010, 44, 5862-5867.	4.6	23
122	Uranyl Adsorption and Speciation at the Fused Silica/Water Interface Studied by Resonantly Enhanced Second Harmonic Generation and the $\text{I}^{\text{3+}}$ Method. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1797-1805.	1.1	26
123	Zinc Interactions with Glucosamine-Functionalized Fused Silica/Water Interfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19483-19488.	1.5	21
124	When the Solute Becomes the Solvent: Orientation, Ordering, and Structure of Binary Mixtures of 1-Hexanol and Cyclohexane over the (0001) Al_2O_3 Surface. <i>Journal of the American Chemical Society</i> , 2010, 132, 14661-14668.	6.6	28
125	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. <i>Vibrational Spectroscopy</i> , 2009, 50, 86-98.	1.2	36
126	Interactions of Ca, Zn, and Cd Ions at Buried Solid/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2041-2052.	1.5	51

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127	DNA at Aqueous/Solid Interfaces: Chirality-Based Detection via Second Harmonic Generation Activity. <i>Journal of the American Chemical Society</i> , 2009, 131, 844-848.	6.6	35
128	Adsorption Entropies and Enthalpies and Their Implications for Adsorbate Dynamics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2806-2815.	1.5	50
129	Free Energy Relationships in the Electric Double Layer and Alkali Earth Speciation at the Fused Silica/Water Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17795-17802.	1.5	24
130	Probing Surface-Adlayer Conjugation on Organic-Modified Si(111) Surfaces with Microscopy, Scattering, Spectroscopy, and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2919-2927.	1.5	10
131	Two Reactivity Modes in the Heterogeneous Cyclohexene Ozonolysis under Tropospherically Relevant Ozone-Rich and Ozone-Limited Conditions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8985-8993.	1.1	31
132	Atmospheric Heterogeneous Stereochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 13733-13737.	6.6	47
133	Second Harmonic Generation, Sum Frequency Generation, and $\text{SFG}(3)$: Dissecting Environmental Interfaces with a Nonlinear Optical Swiss Army Knife. <i>Annual Review of Physical Chemistry</i> , 2009, 60, 61-83.	4.8	265
134	An Optical Voltmeter for Studying Cetyltrimethylammonium Interacting with Fused Silica/Aqueous Interfaces at High Ionic Strength. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4269-4280.	1.1	52
135	Heterogeneous Ozone Oxidation Reactions of 1-Pentene, Cyclopentene, Cyclohexene, and a Menthenol Derivative Studied by Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11688-11698.	1.1	58
136	Jammed Acid-Base Reactions at Interfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 15444-15447.	6.6	58
137	Interaction of Chromium(VI) with the Al_2O_3 -Aluminum Oxide-Water Interface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2032-2039.	1.5	30
138	Interaction of Nitrate, Barium, Strontium and Cadmium Ions with Fused Quartz/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 660-668.	1.1	68
139	Chapter 4 Tracking the Interaction of Transition Metal Ions with Environmental Interfaces using Second Harmonic Generation. <i>Developments in Earth and Environmental Sciences</i> , 2007, , 95-124.	0.1	1
140	Interaction of Hydrogen Chloride with Ice Surfaces: The Effects of Grain Size, Surface Roughness, and Surface Disorder. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6274-6284.	1.1	53
141	Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8796-8804.	1.5	31
142	Anion Chelation by Amido Acid Functionalized Fused Quartz/Water Interfaces Studied by Nonlinear Optics. <i>Journal of the American Chemical Society</i> , 2007, 129, 7175-7184.	6.6	22
143	Enthalpy and Entropy of Acetone Interacting with Degussa P25 TiO_2 Determined by Chemical Ionization Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8260-8267.	1.5	12
144	Insights into Heterogeneous Atmospheric Oxidation Chemistry: Development of a Tailor-Made Synthetic Model for Studying Tropospheric Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1567-1578.	1.5	55

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145	Making "Sense" of DNA. <i>Journal of the American Chemical Society</i> , 2007, 129, 7492-7493.	6.6	81
146	Photochemistry of the Indoor Air Pollutant Acetone on Degussa P25 TiO ₂ Studied by Chemical Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13023-13031.	1.1	39
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