

# Franz Geiger

## 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.

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	Divalent Ion Specific Outcomes on Stern Layer Structure and Total Surface Potential at the Silica:Water Interface. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 10079-10088	2.8	3
162	Molecular Chirality and Cloud Activation Potentials of Dimeric $\beta$ -Pinene Oxidation Products. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 16653-16662	16.4	0
161	Molecular Orientation at the Squalene/Air Interface from Sum Frequency Generation Spectroscopy and Atomistic Modeling. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3932-3941	3.4	7
160	A New Imaginary Term in the Second-Order Nonlinear Susceptibility from Charged Interfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5649-5659	6.4	16
159	Stern and Diffuse Layer Interactions during Ionic Strength Cycling. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18002-18014	3.8	9
158	Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100256	6.1	8
157	In Situ Ni Stain for Liposome Imaging by Liquid-Cell Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2020</b> , 20, 4292-4297	11.5	11
156	Liquid-Liquid phase separation and morphologies in organic particles consisting of $\alpha$ -pinene and $\beta$ -caryophyllene ozonolysis products and mixtures with commercially available organic compounds. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 11263-11273	6.8	3
155	Direct Measurement of Charge Reversal on Lipid Bilayers Using Heterodyne-Detected Second Harmonic Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 641-649	3.4	18
154	Electrostatics, Hydrogen Bonding, and Molecular Structure at Polycation and Peptide:Lipid Membrane Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21149-21158	9.5	8
153	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	1
152	Beyond the Gouy-Chapman Model with Heterodyne-Detected Second Harmonic Generation. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2328-2334	6.4	36
151	Bacterial Model Membranes Deform ( resp. Persist) upon Ni Binding to Inner Core ( resp. O-Antigen) of Lipopolysaccharides. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 4258-4270	3.4	2
150	Perturbation of Hydrogen-Bonding Networks over Supported Lipid Bilayers by Poly(allylamine hydrochloride). <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 4251-4257	3.4	11
149	Partially (resp. fully) reversible adsorption of monoterpenes (resp. alkanes and cycloalkanes) to fused silica. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 074701	3.9	7
148	Surface-Active $\beta$ -Caryophyllene Oxidation Products at the Air/Aqueous Interface. <i>ACS Earth and Space Chemistry</i> , <b>2019</b> , 3, 1740-1748	3.2	3
147	Synthesis and surface spectroscopy of $\beta$ -pinene isotopologues and their corresponding secondary organic material. <i>Chemical Science</i> , <b>2019</b> , 10, 8390-8398	9.4	4

146	Energy conversion via metal nanolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16210-16215	11.5	12
145	The Periodic Table. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 5837-5848	2.8	1
144	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 5848-5856	3.4	22
143	The JPC Periodic Table. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 17063-17074	3.8	1
142	The JPC Periodic Table. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4051-4062	6.4	1
141	Atmospheric Caryophyllene-Derived Ozonolysis Products at Interfaces. <i>ACS Earth and Space Chemistry</i> , <b>2019</b> , 3, 158-169	3.2	6
140	Interfacial electrostatics of poly(vinylamine hydrochloride), poly(diallyldimethylammonium chloride), poly-l-lysine, and poly-l-arginine interacting with lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10846-10856	3.6	19
139	Polycation Interactions with Zwitterionic Phospholipid Monolayers on Oil Nanodroplet Suspensions in Water (DO) Probed by Sum Frequency Scattering. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 5049-5056	3.4	15
138	Hydrogen-Bond Networks near Supported Lipid Bilayers from Vibrational Sum Frequency Generation Experiments and Atomistic Simulations. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 4870-4879	3.4	40
137	Second-Order Vibrational Lineshapes from the Air/Water Interface. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 4457-4464	2.8	50
136	Counting charges on membrane-bound peptides. <i>Chemical Science</i> , <b>2018</b> , 9, 4285-4298	9.4	21
135	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. <i>Chem</i> , <b>2018</b> , 4, 318-333	16.2	32
134	Relative permittivity in the electrical double layer from nonlinear optics. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 222808	3.9	47
133	Single-component supported lipid bilayers probed using broadband nonlinear optics. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3063-3072	3.6	13
132	Bulk Contributions Modulate the Sum-Frequency Generation Spectra of Water on Model Sea-Spray Aerosols. <i>Chem</i> , <b>2018</b> , 4, 1629-1644	16.2	51
131	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10433-10457	6.8	2
130	Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	2
129	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	4

128	Dendritic Oxide Growth in Zerovalent Iron Nanofilms Revealed by Atom Probe Tomography. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 28225-28232	3.8	2
127	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. <i>CheM</i> , <b>2018</b> , 4, 2709-2723	16.2	28
126	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10433-10457	6.8	29
125	Resonantly Enhanced Nonlinear Optical Probes of Oxidized Multiwalled Carbon Nanotubes at Supported Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 1321-1329	3.4	10
124	Orientations of nonlocal vibrational modes from combined experimental and theoretical sum frequency spectroscopy. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 199-204	2.5	8
123	Highly Oxygenated Multifunctional Compounds in $\alpha$ -Pinene Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5932-5940	10.3	69
122	Unanticipated Stickiness of $\alpha$ -Pinene. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 3239-3246	2.8	11
121	Quantifying the Electrostatics of Polycation-Lipid Bilayer Interactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5808-5816	16.4	29
120	Reduced ultrafine particle levels in S $\beta$ Paulo $\beta$ atmosphere during shifts from gasoline to ethanol use. <i>Nature Communications</i> , <b>2017</b> , 8, 77	17.4	23
119	Evidence for Considerable Metal Cation Concentrations from Lithium Intercalation Compounds in the NanoBio Interface Gap. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27473-27482	3.8	12
118	Second-order spectral lineshapes from charged interfaces. <i>Nature Communications</i> , <b>2017</b> , 8, 1032	17.4	139
117	Cloud Activation Potentials for Atmospheric $\alpha$ -Pinene and $\beta$ -Caryophyllene Ozonolysis Products. <i>ACS Central Science</i> , <b>2017</b> , 3, 715-725	16.8	27
116	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> , <b>2017</b> , 17, 8509-8524	6.8	27
115	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 7297-306	3.4	42
114	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by $\alpha$ -pinene ozonolysis without inorganic salts. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7969-7979	6.8	72
113	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> , <b>2016</b> , 120, 20659-20667	3.8	24
112	Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulations Reveal a Rotationally Fluid Adsorption State of $\alpha$ -Pinene on Silica. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12578-12589	3.8	18
111	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> , <b>2016</b> , 120, 1919-27	3.4	13

110	Phase-referenced nonlinear spectroscopy of the quartz/water interface. <i>Nature Communications</i> , <b>2016</b> , 7, 13587	17.4	106
109	Vibrational Mode Assignment of Pinene by Isotope Editing: One Down, Seventy-One To Go. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 2684-90	2.8	25
108	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10642-50	10.3	76
107	A tribute to Mario Molina. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 4277-8	2.8	1
106	Investigations into Apopinene as a Biorenewable Monomer for Ring-Opening Metathesis Polymerization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1278-1281	8.3	21
105	How Open Is Open Access?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1246-8	6.4	0
104	Aqueous proton transfer across single-layer graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 6539	17.4	159
103	Beyond local group modes in vibrational sum frequency generation. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 3407-14	2.8	14
102	Alteration of Membrane Compositional Asymmetry by LiCoO <sub>2</sub> Nanosheets. <i>ACS Nano</i> , <b>2015</b> , 9, 8755-65	16.7	32
101	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 534-546	3.8	68
100	A General Chemistry Assignment Analyzing Environmental Contamination for the DePue, IL, National Superfund Site. <i>Journal of Chemical Education</i> , <b>2015</b> , 92, 638-642	2.4	4
99	Changing shapes and implied viscosities of suspended submicron particles. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7819-7829	6.8	89
98	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. <i>ACS Central Science</i> , <b>2015</b> , 1, 117-23	16.8	93
97	On surface order and disorder of Pinene-derived secondary organic material. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 4609-17	2.8	24
96	Accurate line shapes from sub-1 cm <sup>-1</sup> resolution sum frequency generation vibrational spectroscopy of Pinene at room temperature. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 1292-302	2.8	42
95	Uptake of epoxydiol isomers accounts for half of the particle-phase material produced from isoprene photooxidation via the HO <sub>2</sub> pathway. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 250-8	10.3	45
94	Reduction in local ozone levels in urban São Paulo due to a shift from ethanol to gasoline use. <i>Nature Geoscience</i> , <b>2014</b> , 7, 450-458	18.3	58
93	Precipitates of Al(III), Sc(III), and La(III) at the muscovite-water interface. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10974-81	2.8	9

92	Interactions of Organic Solvents at Graphene/ $\text{Al}_2\text{O}_3$ and Graphene Oxide/ $\text{Al}_2\text{O}_3$ Interfaces Studied by Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17745-17755	3.8	13
91	Interaction of magnesium ions with pristine single-layer and defected graphene/water interfaces studied by second harmonic generation. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 7739-49	3.4	16
90	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. <i>Journal of Chemical Education</i> , <b>2014</b> , 91, 1600-1605	2.4	14
89	Synthesis and Characterization of Chemically Pure Nanometer-Thin Zero-Valent Iron Films and Their Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23256-23263	3.8	4
88	Climate-relevant physical properties of molecular constituents for isoprene-derived secondary organic aerosol material. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10731-10740	6.8	13
87	Towards the identification of molecular constituents associated with the surfaces of isoprene-derived secondary organic aerosol (SOA) particles. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2303-2314	6.8	25
86	Interaction of Aluminum Ions with Fused Silica/Water Interfaces in the Presence of Oxalic Acid Tracked by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28970-28977	3.8	2
85	Y(III) interactions with guanine oligonucleotides covalently attached to aqueous/solid interfaces. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 825-32	3.4	3
84	Counting the number of magnesium ions bound to the surface-immobilized thymine oligonucleotides that comprise spherical nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 17339-48	16.4	15
83	Free energy relationships in the electrical double layer over single-layer graphene. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 979-81	16.4	26
82	Size-dependent changes in sea spray aerosol composition and properties with different seawater conditions. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5603-12	10.3	139
81	Raman microspectroscopy and vibrational sum frequency generation spectroscopy as probes of the bulk and surface compositions of size-resolved sea spray aerosol particles. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6206-14	3.6	79
80	Second Harmonic Generation Studies of Fe(II) Interactions with Hematite ( $\text{Fe}_2\text{O}_3$ ). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4040-4047	3.8	17
79	Interaction of Cr(III) and Cr(VI) with Hematite Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5164-5171	3.8	32
78	Vibrational sum frequency generation spectroscopy of secondary organic material produced by condensational growth from $\alpha$ -pinene ozonolysis. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 8427-36	2.8	27
77	Size-resolved sea spray aerosol particles studied by vibrational sum frequency generation. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 6589-601	2.8	38
76	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7550-5	11.5	345
75	Biogenic and biomass burning organic aerosol in a boreal forest at Hyytiä Finland, during HUMPPA-COPEC 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 12233-12256	6.8	46

74	Importance of length and sequence order on magnesium binding to surface-bound oligonucleotides studied by second harmonic generation and atomic force microscopy. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 6302-10	3.4	8
73	Hydrocarbon on Carbon: Coherent Vibrational Spectroscopy of Toluene on Graphite. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 280-2	6.4	19
72	Arylsilanated SiO <sub>x</sub> Surfaces for Mild and Simple Two-Step Click Functionalization with Small Molecules and Oligonucleotides. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 19886-19892	3.8	16
71	Zinc Ion-Hydroxyl Interactions at Undecanol-Functionalized Fused Silica/Water Interfaces Using the Eisenthal (B) Technique. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7016-7020	3.8	13
70	Organic constituents on the surfaces of aerosol particles from Southern Finland, Amazonia, and California studied by vibrational sum frequency generation. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 8271-90	2.8	36
69	Uranyl adsorption at the muscovite (mica)/water interface studied by second harmonic generation. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 11154-61	10.3	19
68	In-situ probe of gate dielectric-semiconductor interfacial order in organic transistors: origin and control of large performance sensitivities. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11726-33	16.4	78
67	Stereochemical transfer to atmospheric aerosol particles accompanying the oxidation of biogenic volatile organic compounds. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	15
66	Identification of binding sites for acetaldehyde adsorption on titania nanorod surfaces using CIMS. <i>Langmuir</i> , <b>2011</b> , 27, 14842-8	4	6
65	Second harmonic generation imaging with a kHz amplifier [Invited]. <i>Optical Materials Express</i> , <b>2011</b> , 1, 57	2.6	11
64	Surface-amplified ligand disorder in CdSe quantum dots determined by electron and coherent vibrational spectroscopies. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7476-81	16.4	72
63	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> , <b>2011</b> , 11, 10317-10329	6.8	27
62	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10599-10618	6.8	87
61	On molecular chirality within naturally occurring secondary organic aerosol particles from the central Amazon Basin. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12114-22	3.6	15
60	Method for Evaluating Vibrational Mode Assignments in Surface-Bound Cyclic Hydrocarbons Using Sum-Frequency Generation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18284-18294	3.8	16
59	Specific and nonspecific metal ion-nucleotide interactions at aqueous/solid interfaces functionalized with adenine, thymine, guanine, and cytosine oligomers. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2567-70	16.4	28
58	Displacement of hexanol by the hexanoic acid overoxidation product in alcohol oxidation on a model supported palladium nanoparticle catalyst. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17816-23	16.4	31
57	U(VI) Adsorption and Speciation at the Acidic Silica/Water Interface Studied by Resonant and Nonresonant Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13353-13360	3.8	22

56	Exponential sensitivity and speciation of Al(III), Sc(III), Y(III), La(III), and Gd(III) at fused silica/water interfaces. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 14438-45	2.8	18
55	Divalent metal cation speciation and binding to surface-bound oligonucleotide single strands studied by second harmonic generation. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 8338-45	3.4	14
54	Structure of the cetyltrimethylammonium surfactant at fused silica/aqueous interfaces studied by vibrational sum frequency generation. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4495-502	3.4	26
53	Phenylacetylene one-dimensional nanostructures on the Si(100)-2 x 1:H surface. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3013-9	16.4	25
52	Pentane, Hexane, Cyclopentane, Cyclohexane, 1-Hexene, 1-Pentene, cis-2-Pentene, Cyclohexene, and Cyclopentene at Vapor/ $\gamma$ -Alumina and Liquid/ $\gamma$ -Alumina Interfaces Studied by Broadband Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 554-566	3.8	37
51	DNA on Stage: Showcasing Oligonucleotides at Surfaces and Interfaces with Second Harmonic and Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 9-15	6.4	69
50	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 &amp; Technology</i> , <b>2010</b> , 44, 5862-7	10.3	22
49	Uranyl adsorption and speciation at the fused silica/water interface studied by resonantly enhanced second harmonic generation and the chi(3) method. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 1797-805	2.8	22
48	Zinc Interactions with Glucosamine-Functionalized Fused Silica/Water Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19483-19488	3.8	20
47	When the solute becomes the solvent: orientation, ordering, and structure of binary mixtures of 1-hexanol and cyclohexane over the (0001) $\gamma$ -Al <sub>2</sub> O <sub>3</sub> surface. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14661-8	16.4	26
46	Get charged up: Nonlinear optical voltammetry for quantifying the thermodynamics and electrostatics of metal cations at aqueous/oxide interfaces. <i>Chemical Physics Letters</i> , <b>2010</b> , 499, 183-192 <sup>2.5</sup>		45
45	Chemically diverse environmental interfaces and their reactions with ozone studied by sum frequency generation. <i>Vibrational Spectroscopy</i> , <b>2009</b> , 50, 86-98	2.1	35
44	Interactions of Ca, Zn, and Cd Ions at Buried Solid/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 2041-2052	3.8	47
43	DNA at aqueous/solid interfaces: chirality-based detection via second harmonic generation activity. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 844-8	16.4	33
42	Adsorption Entropies and Enthalpies and Their Implications for Adsorbate Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 2806-2815	3.8	42
41	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> , <b>2009</b> , 113, 17795-17802	3.8	24
40	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> , <b>2009</b> , 113, 2919-2927 <sup>10</sup>	3.8	
39	Two reactivity modes in the heterogeneous cyclohexene ozonolysis under tropospherically relevant ozone-rich and ozone-limited conditions. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 8985-93	2.8	29



38	Atmospheric heterogeneous stereochemistry. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13733-13744	4.2	42
37	Second harmonic generation, sum frequency generation, and chi(3): dissecting environmental interfaces with a nonlinear optical Swiss Army knife. <i>Annual Review of Physical Chemistry</i> , <b>2009</b> , 60, 61-83	15.7	226
36	An optical voltmeter for studying cetyltrimethylammonium interacting with fused silica/aqueous interfaces at high ionic strength. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 4269-80	2.8	48
35	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> , <b>2008</b> , 112, 11688-98	2.8	53
34	Jammed acid-base reactions at interfaces. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15444-7	16.4	53
33	Interaction of Chromium(VI) with the Aluminum Oxide/Water Interface. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 2032-2039	3.8	29
32	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> , <b>2008</b> , 112, 660-8	2.8	62
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