

Franz Geiger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1710223/publications.pdf>

Version: 2024-02-01

169
papers

6,651
citations

57631

44
h-index

91712

69
g-index

189
all docs

189
docs citations

189
times ranked

6428
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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.	4.8	265
3	Aqueous proton transfer across single-layer graphene. Nature Communications, 2015, 6, 6539.	5.8	214
4	Second-order spectral lineshapes from charged interfaces. Nature Communications, 2017, 8, 1032.	5.8	193
5	Size-Dependent Changes in Sea Spray Aerosol Composition and Properties with Different Seawater Conditions. Environmental Science & Technology, 2013, 47, 5603-5612.	4.6	175
6	Phase-referenced nonlinear spectroscopy of the α -quartz/water interface. Nature Communications, 2016, 7, 13587.	5.8	130
7	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. ACS Central Science, 2015, 1, 117-123.	5.3	121
8	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.	1.9	108
9	Changing shapes and implied viscosities of suspended submicron particles. Atmospheric Chemistry and Physics, 2015, 15, 7819-7829.	1.9	106
10	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
11	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. Environmental Science & Technology, 2015, 49, 10642-10650.	4.6	103
12	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, 11754-11755.	6.6	97
13	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by α -pinene ozonolysis without inorganic salts. Atmospheric Chemistry and Physics, 2016, 16, 7969-7979.	1.9	93
14	Highly Oxygenated Multifunctional Compounds in α -Pinene Secondary Organic Aerosol. Environmental Science & Technology, 2017, 51, 5932-5940.	4.6	93
15	Hydrogen chloride-induced surface disordering on ice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9422-9427.	3.3	88
16	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
17	Making "Sense" of DNA. Journal of the American Chemical Society, 2007, 129, 7492-7493.	6.6	81
18	Surface-Amplified Ligand Disorder in CdSe Quantum Dots Determined by Electron and Coherent Vibrational Spectroscopies. Journal of the American Chemical Society, 2011, 133, 7476-7481.	6.6	80

#	ARTICLE	IF	CITATIONS
19	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 534-546.	1.5	77
20	Carboxylic Acid- and Ester-Functionalized Siloxane Scaffolds on Glass Studied by Broadband Sum Frequency Generation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18675-18682.	1.2	75
21	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
22	Reduction in local ozone levels in urban São Paulo due to a shift from ethanol to gasoline use. <i>Nature Geoscience</i> , 2014, 7, 450-458.	5.4	71
23	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
24	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
25	Synthesis and Second-Harmonic Generation Studies of Noncentrosymmetric Gold Nanostructures. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2668-2673.	1.2	67
26	Second-Order Vibrational Lineshapes from the Air/Water Interface. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4457-4464.	1.1	63
27	Beyond the Gouy-Chapman Model with Heterodyne-Detected Second Harmonic Generation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2328-2334.	2.1	63
28	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
29	Jammed Acid-Base Reactions at Interfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 15444-15447.	6.6	58
30	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
31	Relative permittivity in the electrical double layer from nonlinear optics. <i>Journal of Chemical Physics</i> , 2018, 148, 222808.	1.2	54
32	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
33	Biogenic and biomass burning organic aerosol in a boreal forest at Hyytiälä, Finland, during HUMPPA-COPEC 2010. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12233-12256.	1.9	53
34	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
35	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
36	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7297-7306.	1.2	52

#	ARTICLE	IF	CITATIONS
37	The interaction of HCl with the (0001) face of hexagonal ice studied theoretically via Car ⁺ Parrinello molecular dynamics. <i>Chemical Physics Letters</i> , 2001, 348, 285-292.	1.2	51
38	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
39	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
40	Ab Initio Study of HOCl, HCl, H ₂ O, and Cl ₂ Interacting with Four Water Molecules. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1514-1522.	1.1	50
41	Adsorption Entropies and Enthalpies and Their Implications for Adsorbate Dynamics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2806-2815.	1.5	50
42	Size-Resolved Sea Spray Aerosol Particles Studied by Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6589-6601.	1.1	50
43	Accurate Line Shapes from Sub-1 cm ⁻¹ Resolution Sum Frequency Generation Vibrational Spectroscopy of β -Pinene at Room Temperature. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1292-1302.	1.1	49
44	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
45	First-principles molecular-dynamics study of surface disordering of the (0001) face of hexagonal ice. <i>Journal of Chemical Physics</i> , 2000, 113, 10733-10743.	1.2	47
46	Atmospheric Heterogeneous Stereochemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 13733-13737.	6.6	47
47	Hydrogen-Bond Networks near Supported Lipid Bilayers from Vibrational Sum Frequency Generation Experiments and Atomistic Simulations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4870-4879.	1.2	47
48	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. <i>CheM</i> , 2018, 4, 2709-2723.	5.8	46
49	Second Harmonic Generation Phase Measurements of Cr(VI) at a Buried Interface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24386-24390.	1.2	43
50	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> , 2012, 116, 8271-8290.	1.1	41
51	Interaction of Cr(III) and Cr(VI) with Hematite Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5164-5171.	1.5	41
52	Cloud Activation Potentials for Atmospheric β -Pinene and β -Caryophyllene Ozonolysis Products. <i>ACS Central Science</i> , 2017, 3, 715-725.	5.3	40
53	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. <i>CheM</i> , 2018, 4, 318-333.	5.8	40
54	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

#	ARTICLE	IF	CITATIONS
55	Pentane, Hexane, Cyclopentane, Cyclohexane, 1-Hexene, 1-Pentene, <i>cis</i> -2-Pentene, Cyclohexene, and Cyclopentene at Vapor/ γ -Alumina and Liquid/ γ -Alumina Interfaces Studied by Broadband Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 554-566.	1.5	39
56	Alteration of Membrane Compositional Asymmetry by LiCoO ₂ Nanosheets. <i>ACS Nano</i> , 2015, 9, 8755-8765.	7.3	38
57	Quantifying the Electrostatics of Polycation-Lipid Bilayer Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 5808-5816.	6.6	38
58	First-Principles Theoretical Study of Molecular HCl Adsorption on a Hexagonal Ice (0001) Surface. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7037-7046.	1.1	37
59	Chromium(VI) Binding to Functionalized Silica/Water Interfaces Studied by Nonlinear Optical Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 11126-11127.	6.6	37
60	Kinetic Studies of Chromium (VI) Binding to Carboxylic Acid- and Methyl Ester-Functionalized Silica/Water Interfaces Important in Geochemistry. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16852-16859.	1.2	37
61	Kinetics of Chromate Adsorption and Desorption at Fused Quartz/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9620-9627.	1.1	36
62	DNA Single Strands Tethered to Fused Quartz/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of the American Chemical Society</i> , 2005, 127, 15368-15369.	6.6	36
63	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
64	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
65	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> , 2011, 133, 17816-17823.	6.6	35
66	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
67	Control of Carboxylic Acid and Ester Groups on Chromium (VI) Binding to Functionalized Silica/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9691-9702.	1.2	34
68	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
69	Surface Studies of Chromate Binding to Fused Quartz/Water Interfaces. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6212-6217.	1.1	31
70	Nonlinear Optical Studies of the Agricultural Antibiotic Morantel Interacting with Silica/Water Interfaces. <i>Journal of the American Chemical Society</i> , 2005, 127, 15771-15777.	6.6	31
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Interaction of Chromium(VI) with the γ -Aluminum Oxide/Water Interface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2032-2039.	1.5	30
75	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
76	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5848-5856.	1.2	30
77	Second Harmonic Generation Studies of Ozone Depletion Reactions on Ice Surfaces under Stratospheric Conditions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8205-8215.	1.2	29
78	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
79	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> , 2011, 133, 2567-2570.	6.6	29
80	Vibrational Sum Frequency Generation Spectroscopy of Secondary Organic Material Produced by Condensational Growth from α -Pinene Ozonolysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8427-8436.	1.1	29
81	Towards the identification of molecular constituents associated with the surfaces of isoprene-derived secondary organic aerosol (SOA) particles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2303-2314.	1.9	29
82	Vibrational Mode Assignment of α -Pinene by Isotope Editing: One Down, Seventy-One To Go. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2684-2690.	1.1	29
83	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
84	Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulations Reveal a Rotationally Fluid Adsorption State of α -Pinene on Silica. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12578-12589.	1.5	29
85	When the Solute Becomes the Solvent: Orientation, Ordering, and Structure of Binary Mixtures of 1-Hexanol and Cyclohexane over the (0001) γ -Al ₂ O ₃ Surface. <i>Journal of the American Chemical Society</i> , 2010, 132, 14661-14668.	6.6	28
86	Free Energy Relationships in the Electrical Double Layer over Single-Layer Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 979-981.	6.6	28
87	On Surface Order and Disorder of α -Pinene-Derived Secondary Organic Material. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4609-4617.	1.1	27
88	Phenylacetylene One-Dimensional Nanostructures on the Si(100)-2 \times 1:H Surface. <i>Journal of the American Chemical Society</i> , 2010, 132, 3013-3019.	6.6	26
89	Uranyl Adsorption and Speciation at the Fused Silica/Water Interface Studied by Resonantly Enhanced Second Harmonic Generation and the F^{-} Method. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1797-1805.	1.1	26
90	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

#	ARTICLE	IF	CITATIONS
91	Energy conversion via metal nanolayers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16210-16215.	3.3	26
92	Uranyl Adsorption at the Muscovite (Mica)/Water Interface Studied by Second Harmonic Generation. Environmental Science & Technology, 2012, 46, 11154-11161.	4.6	25
93	Direct Measurement of Charge Reversal on Lipid Bilayers Using Heterodyne-Detected Second Harmonic Generation Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 641-649.	1.2	25
94	Interaction of the Indoor Air Pollutant Acetone with Degussa P25 TiO ₂ Studied by Chemical Ionization Mass Spectrometry. Langmuir, 2006, 22, 9642-9650.	1.6	24
95	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.	1.5	24
96	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
97	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, 5862-5867.	4.6	23
98	Counting charges on membrane-bound peptides. Chemical Science, 2018, 9, 4285-4298.	3.7	23
99	Anion Chelation by Amido Acid Functionalized Fused Quartz/Water Interfaces Studied by Nonlinear Optics. Journal of the American Chemical Society, 2007, 129, 7175-7184.	6.6	22
100	Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. Cell Reports Physical Science, 2020, 1, 100256.	2.8	22
101	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. Atmospheric Chemistry and Physics, 2018, 18, 10433-10457.	1.9	22
102	Zinc Interactions with Glucosamine-Functionalized Fused Silica/Water Interfaces. Journal of Physical Chemistry C, 2010, 114, 19483-19488.	1.5	21
103	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. Journal of Chemical Education, 2014, 91, 1600-1605.	1.1	21
104	In Situ Ni ²⁺ Stain for Liposome Imaging by Liquid-Cell Transmission Electron Microscopy. Nano Letters, 2020, 20, 4292-4297.	4.5	21
105	Tracking Oxytetracycline Mobility Across Environmental Interfaces by Second Harmonic Generation. Journal of Physical Chemistry B, 2006, 110, 22577-22585.	1.2	20
106	Hydrocarbon on Carbon: Coherent Vibrational Spectroscopy of Toluene on Graphite. Journal of Physical Chemistry Letters, 2012, 3, 280-282.	2.1	20
107	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
108	Stern and Diffuse Layer Interactions during Ionic Strength Cycling. Journal of Physical Chemistry C, 2021, 125, 18002-18014.	1.5	20

#	ARTICLE	IF	CITATIONS
109	The Hydrolysis of Chlorine Nitrate on Ice Is Autocatalytic. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4940-4945.	1.1	19
110	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> , 2011, 115, 14438-14445.	1.1	19
111	Interfacial electrostatics of poly(vinylamine hydrochloride), poly(diallyldimethylammonium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10846-10856.	1.3	19
112	Polycation Interactions with Zwitterionic Phospholipid Monolayers on Oil Nanodroplet Suspensions in Water (D_2O) Probed by Sum Frequency Scattering. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5049-5056.	1.2	19
113	On molecular chirality within naturally occurring secondary organic aerosol particles from the central Amazon Basin. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12114.	1.3	18
114	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
115	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> , 2014, 118, 7739-7749.	1.2	18
116	Beyond Local Group Modes in Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3407-3414.	1.1	18
117	Method for Evaluating Vibrational Mode Assignments in Surface-Bound Cyclic Hydrocarbons Using Sum-Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18284-18294.	1.5	17
118	Arylsilanated SiO_2 Surfaces for Mild and Simple Two-Step Click Functionalization with Small Molecules and Oligonucleotides. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19886-19892.	1.5	17
119	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> , 2013, 135, 17339-17348.	6.6	17
120	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
121	Perturbation of Hydrogen-Bonding Networks over Supported Lipid Bilayers by Poly(allylamine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10846-10856.	1.2	17
122	Zinc Ion-Hydroxyl Interactions at Undecanol-Functionalized Fused Silica/Water Interfaces Using the Eisenhath $\text{I}^{\text{sup}}(3)$ Technique. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7016-7020.	1.5	15
123	Single-component supported lipid bilayers probed using broadband nonlinear optics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3063-3072.	1.3	15
124	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
125	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
126	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

#	ARTICLE	IF	CITATIONS
127	Second harmonic generation imaging with a kHz amplifier [Invited]. <i>Optical Materials Express</i> , 2011, 1, 57.	1.6	14
128	Climate-relevant physical properties of molecular constituents for isoprene-derived secondary organic aerosol material. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10731-10740.	1.9	14
129	Unanticipated Stickiness of α -Pinene. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3239-3246.	1.1	14
130	A Theoretical Study of the Interaction of HCl with Crystalline NAT. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6972-6981.	1.1	13
131	Interactions of Organic Solvents at Graphene/ Al_2O_3 and Graphene Oxide/ Al_2O_3 Interfaces Studied by Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17745-17755.	1.5	13
132	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
133	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
134	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
135	Precipitates of Al(III), Sc(III), and La(III) at the Muscovite-Water Interface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10974-10981.	1.1	11
136	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
137	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
138	Partially (<i>resp</i>. fully) reversible adsorption of monoterpenes (<i>resp</i>. alkanes and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.2	10
139	Atmospheric α -Caryophyllene-Derived Ozonolysis Products at Interfaces. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 158-169.	1.2	10
140	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> , 2012, 116, 6302-6310.	1.2	9
141	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
142	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
143	Surface-Active α -Caryophyllene Oxidation Products at the Air/Aqueous Interface. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1740-1748.	1.2	8
144	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

#	ARTICLE	IF	CITATIONS
145	Sedimentation Time Measurements of Soil Particles by Light Scattering and Determination of Chromium, Lead, and Iron in Soil Samples via ICP. <i>Journal of Chemical Education</i> , 2005, 82, 1542.	1.1	7
146	Identification of Binding Sites for Acetaldehyde Adsorption on Titania Nanorod Surfaces Using CIMS. <i>Langmuir</i> , 2011, 27, 14842-14848.	1.6	6
147	Synthesis and Characterization of Chemically Pure Nanometer-Thin Zero-Valent Iron Films and Their Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23256-23263.	1.5	6
148	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
149	A General Chemistry Assignment Analyzing Environmental Contamination for the DePue, IL, National Superfund Site. <i>Journal of Chemical Education</i> , 2015, 92, 638-642.	1.1	4
150	Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
151	Y(III) Interactions with Guanine Oligonucleotides Covalently Attached to Aqueous/Solid Interfaces. <i>Journal of Physical Chemistry B</i> , 2013, 117, 825-832.	1.2	3
152	Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	3
153	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
154	Virtual Issue in Atmospheric Chemistry Research. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5697-5699.	1.1	3
155	A Virtual Issue on Aqueous Interfaces. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10401-10403.	1.2	3
156	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> , 2014, 118, 28970-28977.	1.5	2
157	A Tribute to Mario Molina. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4277-4278.	1.1	2
158	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
159	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5837-5848.	1.1	2
160	The <i>JPC</i> Periodic Table. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4051-4062.	2.1	2
161	Bacterial Model Membranes Deform (<i>resp.</i> Persist) upon Ni ²⁺ Binding to Inner Core (<i>resp.</i> O-Antigen) of Lipopolysaccharides. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4258-4270.	1.2	2
162	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

#	ARTICLE	IF	CITATIONS
163	How Open Is Open Access?. Journal of Physical Chemistry Letters, 2015, 6, 1246-1248.	2.1	1
164	Environmental Processes at the Solid–Liquid Interface: What Constitutes New Physical Insights?. Journal of Physical Chemistry C, 2017, 121, 17045-17045.	1.5	1
165	The <i>JPC</i> Periodic Table. Journal of Physical Chemistry B, 2019, 123, 5973-5984.	1.2	1
166	The <i>JPC</i> Periodic Table. Journal of Physical Chemistry C, 2019, 123, 17063-17074.	1.5	1
167	Specifics about Specific Ion Adsorption from Heterodyne-Detected Second Harmonic Generation. Journal of Physical Chemistry C, 0, , .	1.5	1
168	Mario Molina, 1943–2020. Journal of Physical Chemistry A, 2020, 124, 10921-10922.	1.1	1
169	Virtual Issue in Atmospheric Chemistry Research. ACS Earth and Space Chemistry, 2020, 4, 958-960.	1.2	0