

# Barbara Finlayson-Pitts

## List of Publications by Citations

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211  
papers

11,923  
citations

55  
h-index

103  
g-index

225  
ext. papers

12,812  
ext. citations

7.3  
avg, IF

6.45  
L-index

#	Paper	IF	Citations
211	Tropospheric air pollution: ozone, airborne toxics, polycyclic aromatic hydrocarbons, and particles. <i>Science</i> , <b>1997</b> , 276, 1045-52	33.3	859
210	Experiments and simulations of ion-enhanced interfacial chemistry on aqueous NaCl aerosols. <i>Science</i> , <b>2000</b> , 288, 301-6	33.3	566
209	Unexpectedly high concentrations of molecular chlorine in coastal air. <i>Nature</i> , <b>1998</b> , 394, 353-356	50.4	520
208	The heterogeneous hydrolysis of NO <sub>2</sub> in laboratory systems and in outdoor and indoor atmospheres: An integrated mechanism. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 223-242	3.6	486
207	Formation of chemically active chlorine compounds by reactions of atmospheric NaCl particles with gaseous N <sub>2</sub> O <sub>5</sub> and ClONO <sub>2</sub> . <i>Nature</i> , <b>1989</b> , 337, 241-244	50.4	349
206	The tropospheric chemistry of sea salt: a molecular-level view of the chemistry of NaCl and NaBr. <i>Chemical Reviews</i> , <b>2003</b> , 103, 4801-22	68.1	342
205	The role of Br <sub>2</sub> and BrCl in surface ozone destruction at polar sunrise. <i>Science</i> , <b>2001</b> , 291, 471-4	33.3	326
204	Formation of molecular chlorine from the photolysis of ozone and aqueous sea-salt particles. <i>Science</i> , <b>1998</b> , 279, 74-7	33.3	262
203	Nonequilibrium atmospheric secondary organic aerosol formation and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2836-41	11.5	234
202	Reactions at interfaces as a source of sulfate formation in sea-salt particles. <i>Science</i> , <b>2003</b> , 301, 340-4	33.3	222
201	Reactions at surfaces in the atmosphere: integration of experiments and theory as necessary (but not necessarily sufficient) for predicting the physical chemistry of aerosols. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 7760-79	3.6	193
200	Physical Chemistry of Airborne Sea Salt Particles and Their Components. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 11463-11477	2.8	190
199	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 604	3.6	182
198	Ozone destruction and bromine photochemistry at ground level in the Arctic spring. <i>Nature</i> , <b>1990</b> , 343, 622-625	50.4	180
197	Adsorption of Atmospherically Relevant Gases at the Air/Water Interface: Free Energy Profiles of Aqueous Solvation of N <sub>2</sub> , O <sub>2</sub> , O <sub>3</sub> , OH, H <sub>2</sub> O, HO <sub>2</sub> , and H <sub>2</sub> O <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 11573-11579	2.8	162
196	Chlorine atoms as a potential tropospheric oxidant in the marine boundary layer. <i>Research on Chemical Intermediates</i> , <b>1993</b> , 19, 235-249	2.8	151
195	Reaction of NO <sub>2</sub> with NaCl and atmospheric implications of NOCl formation. <i>Nature</i> , <b>1983</b> , 306, 676-677	50.4	144

194	A Diffuse Reflectance Infrared Fourier Transform Spectroscopic Study of the Surface Reaction of NaCl with Gaseous NO <sub>2</sub> and HNO <sub>3</sub> . <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 3747-3755		139
193	Comparison of FTIR and particle mass spectrometry for the measurement of particulate organic nitrates. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1056-61	10.3	137
192	Simplified mechanism for new particle formation from methanesulfonic acid, amines, and water via experiments and ab initio calculations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 18719-24	11.5	131
191	Sodium nitrate particles: physical and chemical properties during hydration and dehydration, and implications for aged sea salt aerosols. <i>Journal of Aerosol Science</i> , <b>2004</b> , 35, 869-887	4.3	131
190	Formation of Molecular Bromine from the Reaction of Ozone with Deliquesced NaBr Aerosol: Evidence for Interface Chemistry. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 11559-11572	2.8	129
189	Knudsen Cell Studies of the Uptake of Gaseous HNO <sub>3</sub> and Other Oxides of Nitrogen on Solid NaCl: The Role of Surface-Adsorbed Water. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 15218-15228		118
188	Integrating phase and composition of secondary organic aerosol from the ozonolysis of $\alpha$ -pinene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7552-7	11.5	116
187	The photochemical production of HONO during the heterogeneous hydrolysis of NO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3836	3.6	116
186	Interaction of Gas-Phase Ozone at 296 K with Unsaturated Self-Assembled Monolayers: A New Look at an Old System. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 10473-10485	2.8	116
185	Molecular halogens before and during ozone depletion events in the Arctic at polar sunrise: concentrations and sources. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 2721-2731	5.3	108
184	Bromine activation in the troposphere by the dark reaction of O <sub>3</sub> with seawater ice. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3923-3926	4.9	108
183	Kinetics of reactions of chlorine atoms with a series of alkenes at 1 atm and 298 K: structure and reactivity. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 5813-5820	3.6	106
182	New experimental and theoretical approach to the heterogeneous hydrolysis of NO <sub>2</sub> : key role of molecular nitric acid and its complexes. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 6886-97	2.8	103
181	Water-Induced Reorganization of Ultrathin Nitrate Films on NaCl: Implications for the Tropospheric Chemistry of Sea Salt Particles. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 6371-6375		103
180	Chlorine activation indoors and outdoors via surface-mediated reactions of nitrogen oxides with hydrogen chloride. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 13647-54	11.5	96
179	Real-Time Monitoring of the Kinetics and Gas-Phase Products of the Reaction of Ozone with an Unsaturated Phospholipid at the Air-Water Interface. <i>Langmuir</i> , <b>2000</b> , 16, 9321-9330	4	92
178	Kinetics and Mechanism of the Reaction of Cl Atoms with 2-Methyl-1,3-butadiene (Isoprene) at 298 K. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 1509-1517	2.8	91
177	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1526-36	3.4	86

176	F. Sherwood Rowland: A man of science, vision, integrity, and kindness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 13881-13882	11.5	78
175	Reaction of Gaseous Nitric Oxide with Nitric Acid on Silica Surfaces in the Presence of Water at Room Temperature. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 10339-10346	2.8	78
174	Diffuse Reflectance Infrared Studies of the Reaction of Synthetic Sea Salt Mixtures with NO <sub>2</sub> : A Key Role for Hydrates in the Kinetics and Mechanism. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 1277-1286	2.8	76
173	Rate Constants and Kinetic Isotope Effects in the Reactions of Atomic Chlorine with n-Butane and Simple Alkenes at Room Temperature. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 8510-8519	2.8	74
172	Heterogeneous chemistry in the troposphere: Experimental approaches and applications to the chemistry of sea salt particles. <i>International Reviews in Physical Chemistry</i> , <b>1999</b> , 18, 343-385	7	73
171	Photooxidation of Pinene at high relative humidity in the presence of increasing concentrations of NO <sub>x</sub> . <i>Atmospheric Environment</i> , <b>2008</b> , 42, 5044-5060	5.3	70
170	Computational studies of atmospherically-relevant chemical reactions in water clusters and on liquid water and ice surfaces. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 399-406	24.3	68
169	New particle formation and growth from methanesulfonic acid, trimethylamine and water. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13699-709	3.6	67
168	Ionization of N <sub>2</sub> O <sub>4</sub> in contact with water: mechanism, time scales and atmospheric implications. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12180-5	16.4	67
167	Role of the reaction of stabilized Criegee intermediates with peroxy radicals in particle formation and growth in air. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 12500-14	3.6	66
166	Laboratory studies of potential mechanisms of renoxification of tropospheric nitric acid. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 548-54	10.3	65
165	Interactions of monolayers of unsaturated phosphocholines with ozone at the air-water interface. <i>Langmuir</i> , <b>1994</b> , 10, 4637-4644	4	63
164	Enhanced photolysis in aerosols: evidence for important surface effects. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 4700-10	3.6	59
163	The reaction of gaseous N <sub>2</sub> O <sub>5</sub> with solid NaCl at 298 K: Estimated lower limit to the reaction probability and its potential role in tropospheric and stratospheric chemistry. <i>Geophysical Research Letters</i> , <b>1991</b> , 18, 17-20	4.9	59
162	Knudsen Cell Studies of the Reaction of Gaseous Nitric Acid with Synthetic Sea Salt at 298 K. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 9993-9999	2.8	58
161	New Particle Formation from Methanesulfonic Acid and Amines/Ammonia as a Function of Temperature. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 243-252	10.3	57
160	The future of airborne sulfur-containing particles in the absence of fossil fuel sulfur dioxide emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13514-9	11.5	57
159	Analysis of relative rate measurements. <i>International Journal of Chemical Kinetics</i> , <b>1997</b> , 29, 665-672	1.4	57

158	Halogens in the troposphere. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 770-6	7.8	55
157	A new approach to determining gas-particle reaction probabilities and application to the heterogeneous reaction of deliquesced sodium chloride particles with gas-phase hydroxyl radicals. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 10619-27	2.8	55
156	FTIR Studies of the Reaction of Gaseous NO with HNO <sub>3</sub> on Porous Glass: Implications for Conversion of HNO <sub>3</sub> to Photochemically Active NO <sub>x</sub> in the Atmosphere. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 9705-9711	2.8	54
155	X-ray photoelectron spectroscopic studies of the heterogenous reaction of gaseous nitric acid with sodium chloride: Kinetics and contribution to the chemistry of the marine troposphere. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 1623-1626	4.9	54
154	Rate Constants for the Reactions of Chlorine Atoms with Some Simple Alkanes at 298 K: Measurement of a Self-Consistent Set Using Both Absolute and Relative Rate Methods. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 13156-13162		53
153	Experimental and theoretical characterization of adsorbed water on self-assembled monolayers: understanding the interaction of water with atmospherically relevant surfaces. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 2060-9	2.8	51
152	Enhanced surface photochemistry in chloride-nitrate ion mixtures. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 5668-77	3.6	51
151	Kinetics of reaction of chlorine atoms with some biogenic organics. <i>International Journal of Chemical Kinetics</i> , <b>1999</b> , 31, 491-499	1.4	51
150	X-ray Photoelectron Spectroscopy Studies of the Effects of Water Vapor on Ultrathin Nitrate Layers on NaCl. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 19891-19897		51
149	Identification of organic nitrates in the NO <sub>3</sub> radical initiated oxidation of alpha-pinene by atmospheric pressure chemical ionization mass spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 5887-93	10.3	49
148	Enhancement of N <sub>2</sub> O <sub>4</sub> on Porous Glass at Room Temperature: A Key Intermediate in the Heterogeneous Hydrolysis of NO <sub>2</sub> ?. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 171-175	2.8	48
147	Gas-phase molecular halogen formation from NaCl and NaBr aerosols: when are interface reactions important?. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 1859-67	2.8	47
146	Photochemical processes induced by vibrational overtone excitations: dynamics simulations for cis-HONO, trans-HONO, HNO <sub>3</sub> , and HNO <sub>3</sub> -H <sub>2</sub> O. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 5342-54	2.8	47
145	Infrared Absorption Cross-Section Measurements for Nitrous Acid (HONO) at Room Temperature. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 1692-1699	2.8	47
144	HONO decomposition on borosilicate glass surfaces: implications for environmental chamber studies and field experiments. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 5236	3.6	46
143	Fluorescence, Absorption, and Excitation Spectra of Polycyclic Aromatic Hydrocarbons as a Tool for Quantitative Analysis. <i>Journal of Chemical Education</i> , <b>2004</b> , 81, 242	2.4	46
142	Laboratory studies of sources of HONO in polluted urban atmospheres. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3229-3232	4.9	46
141	Nitrate ion photolysis in thin water films in the presence of bromide ions. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 5810-21	2.8	44

140	Structure of large nitrate-water clusters at ambient temperatures: simulations with effective fragment potentials and force fields with implications for atmospheric chemistry. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 12805-14	2.8	44
139	Knudsen cell studies of the reactions of N <sub>2</sub> O <sub>5</sub> and ClONO <sub>2</sub> with NaCl: development and application of a model for estimating available surface areas and corrected uptake coefficients. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 1780-1789	3.6	44
138	Infrared Spectroscopic Studies of Binary Solutions of Nitric Acid and Water and Ternary Solutions of Nitric Acid, Sulfuric Acid, and Water at Room Temperature: Evidence for Molecular Nitric Acid at the Surface. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 1890-1896	2.8	42
137	Unusual aggregates from the oxidation of alkene self-assembled monolayers: a previously unrecognized mechanism for SAM ozonolysis?. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 3605-9	3.6	41
136	Measurement of gas-phase ammonia and amines in air by collection onto an ion exchange resin and analysis by ion chromatography. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2733-2744	4	40
135	Analysis of secondary organic aerosols in air using extractive electrospray ionization mass spectrometry (EESI-MS). <i>RSC Advances</i> , <b>2012</b> , 2, 2930	3.7	39
134	The Role of Oxalic Acid in New Particle Formation from Methanesulfonic Acid, Methylamine, and Water. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2124-2130	10.3	38
133	Catalytic role for water in the atmospheric production of ClNO. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 4609-18	2.8	38
132	Knudsen Cell Studies of the Reaction of Gaseous HNO <sub>3</sub> with NaCl Using Less than a Single Layer of Particles at 298 K: A Modified Mechanism. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 7818-7826	2.8	38
131	Unique products of the reaction of isoprene with atomic chlorine: Potential markers of chlorine atom chemistry. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1615-1618	4.9	37
130	A new mechanism for ozonolysis of unsaturated organics on solids: phosphocholines on NaCl as a model for sea salt particles. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 528-41	3.6	37
129	Rate constants for the reactions of chlorine atoms with a series of unsaturated aldehydes and ketones at 298 K: structure and reactivity. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 1824-1831	3.6	37
128	Kinetics and Atmospheric Chemistry <b>2000</b> , 130-178		37
127	Complexes of HNO <sub>3</sub> and NO <sub>3</sub> - with NO <sub>2</sub> and N <sub>2</sub> O <sub>4</sub> , and their potential role in atmospheric HONO formation. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 6019-32	3.6	36
126	Atmospheric solids analysis probe mass spectrometry: a new approach for airborne particle analysis. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5922-7	7.8	35
125	Synthesis and identification by infrared spectroscopy of gaseous nitryl bromide, BrNO <sub>2</sub> . <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 4397-4400		35
124	The uptake of SO <sub>2</sub> on synthetic sea salt and some of its components. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 887-890	4.9	34
123	Uptake and Reaction of ClONO <sub>2</sub> on NaCl and Synthetic Sea Salt. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5178-5187	2.8	34

122	Comment on Indications of photochemical histories of Pacific air masses from measurements of atmospheric trace species at Point Arena, California by D. D. Parrish et al.. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 14991		33
121	A new dark source of the gaseous hydroxyl radical for relative rate measurements. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 1172-1177		33
120	Formation of secondary ozonides from the reaction of an unsaturated phosphatidylcholine with ozone. <i>Chemical Research in Toxicology</i> , <b>1990</b> , 3, 517-23	4	33
119	Absorption cross sections for gaseous ClNO <sub>2</sub> and Cl <sub>2</sub> at 298 K: Potential organic oxidant source in the marine troposphere. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 7651		32
118	A New Aerosol Flow System for Photochemical and Thermal Studies of Tropospheric Aerosols. <i>Aerosol Science and Technology</i> , <b>2010</b> , 44, 329-338	3-4	31
117	Particle formation and growth from oxalic acid, methanesulfonic acid, trimethylamine and water: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 28286-28301	3,6	30
116	Nitrogen dioxide at the air-water interface: trapping, absorption, and solvation in the bulk and at the surface. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 204-12	3.6	30
115	NO <sub>x</sub> Reactions on Aqueous Surfaces with Gaseous HCl: Formation of a Potential Precursor to Atmospheric Cl Atoms. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3405-10	6.4	30
114	Proton Transfer in Mixed Clusters of Methanesulfonic Acid, Methylamine, and Oxalic Acid: Implications for Atmospheric Particle Formation. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 2377-2385	2.8	29
113	Atmospheric chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6566-7	11.5	29
112	Interactions of gaseous nitric acid with surfaces of environmental interest. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3879	3.6	28
111	Production of gas phase NO <sub>2</sub> and halogens from the photochemical oxidation of aqueous mixtures of sea salt and nitrate ions at room temperature. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 10447-54	10.3	27
110	Reaction of gas phase OH with unsaturated self-assembled monolayers and relevance to atmospheric organic oxidations. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9419-28	3.6	27
109	Characterization of organic coatings on hygroscopic salt particles and their atmospheric impacts. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 1209-1218	5.3	27
108	Kinetics of the reactions of OH with methyl chloroform and methane: Implications for global tropospheric OH and the methane budget. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 1371-1374	4.9	27
107	Photochemistry of Thin Solid Films of the Neonicotinoid Imidacloprid on Surfaces. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2660-2668	10.3	26
106	Amine-Amine Exchange in Aminium-Methanesulfonate Aerosols. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29431-29440	3.8	26
105	Phase, composition, and growth mechanism for secondary organic aerosol from the ozonolysis of $\alpha$ -cedrene. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3245-3264	6.8	25

104	Reaction of a charge-separated ONONO <sub>2</sub> species with water in the formation of HONO: an MP2 Molecular Dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4483-7	3.6	24
103	New insights into secondary organic aerosol from the ozonolysis of $\alpha$ -pinene from combined infrared spectroscopy and mass spectrometry measurements. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 22706-16	3.6	24
102	Nitrate ion photochemistry at interfaces: a new mechanism for oxidation of $\alpha$ -pinene. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3063-71	3.6	24
101	Measurement of vapor pressures and heats of sublimation of dicarboxylic acids using atmospheric solids analysis probe mass spectrometry. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 5900-9	2.8	23
100	Inverse Kinetic Isotope Effect in the Reaction of Atomic Chlorine with C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> D <sub>4</sub> . <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 9187-9190	2.8	23
99	A new approach to studying aqueous reactions using diffuse reflectance infrared Fourier transform spectrometry: application to the uptake and oxidation of SO <sub>2</sub> on OH-processed model sea salt aerosol. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1980-90	3.6	22
98	Surprising formation of p-cymene in the oxidation of $\alpha$ -pinene in air by the atmospheric oxidants OH, O <sub>3</sub> , and NO <sub>3</sub> . <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 2755-60	10.3	21
97	Formation of gas-phase bromine compounds by reaction of solid sodium bromide with gaseous nitryl hypochlorite, chlorine and chlorine bromide at 298 K. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 6951-6958		21
96	Contamination from electrically conductive silicone tubing during aerosol chemical analysis. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 2836-2839	5.3	20
95	Characterization of HOCl Using Atmospheric Pressure Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 8231-8238	2.8	20
94	Challenges associated with the sampling and analysis of organosulfur compounds in air using real-time PTR-ToF-MS and offline GC-FID. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 1325-1340	4	20
93	An upper limit to the concentration of an SO <sub>2</sub> complex at the air/water interface at 298 K: infrared experiments and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 1832-1838	3.6	19
92	Reactions of dinitrogen pentoxide and nitrogen dioxide with 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine. <i>Lipids</i> , <b>1991</b> , 26, 306-14	1.6	19
91	Mechanism for formation of atmospheric Cl atom precursors in the reaction of dinitrogen oxides with HCl/Cl(-) on aqueous films. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19360-70	3.6	18
90	Secondary Ozonide Formation from the Ozone Oxidation of Unsaturated Self-Assembled Monolayers on Zinc Selenide Attenuated Total Reflectance Crystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11060-11065	3.8	18
89	Rates and Mechanisms of Gas-Phase Reactions in Irradiated Organic [NO <sub>x</sub> ] Air Mixtures <b>2000</b> , 179-263		18
88	Unique Photochemistry of Surface Nitrate. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 17269-17272		18
87	Aerosol fast flow reactor for laboratory studies of new particle formation. <i>Journal of Aerosol Science</i> , <b>2014</b> , 78, 30-40	4.3	17



86	Hydroxyl radical quantum yields from isopropyl nitrite photolysis in air. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 8150-5	10.3	17
85	Unusual oxidation of organics at interfaces from the bottom up and atmospheric implications. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11272-3	16.4	17
84	Substrate changes associated with the chemistry of self-assembled monolayers on silicon. <i>Langmuir</i> , <b>2006</b> , 22, 5617-24	4	17
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