Barbara Finlayson-Pitts

List of Publications by Year in Descending Order

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	Probing Matrix Effects on the Heterogeneous Photochemistry of Neonicotinoid Pesticides, Dinotefuran and Nitenpyram. *ACS Earth and Space Chemistry*, **2021**, 5, 1196-1209	3.2	0
210	Unexpected formation of oxygen-free products and nitrous acid from the ozonolysis of the neonicotinoid nitenpyram. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11321-11327	11.5	8
209	Integrated experimental and theoretical approach to probe the synergistic effect of ammonia in methanesulfonic acid reactions with small alkylamines. *Environmental Sciences: Processes and Impacts*, **2020**, 22, 305-328	4.3	10
208	Novel ionization reagent for the measurement of gas-phase ammonia and amines using a stand-alone atmospheric pressure gas chromatography (APGC) source. *Rapid Communications in Mass Spectrometry*, **2020**, 34, e8561	2.2	2
207	Evidence for a kinetically controlled burying mechanism for growth of high viscosity secondary organic aerosol. *Environmental Sciences: Processes and Impacts*, **2020**, 22, 66-83	4.3	6
206	Size-Resolved Chemical Composition of Sub-20 nm Particles from Methanesulfonic Acid Reactions with Methylamine and Ammonia. *ACS Earth and Space Chemistry*, **2020**, 4, 1182-1194	3.2	8
205	Enhanced Gas Uptake during □Pinene Ozonolysis Points to a Burying Mechanism. *ACS Earth and Space Chemistry*, **2020**, 4, 1435-1447	3.2	1
204	Experimental and Theoretical Studies of the Environmental Sensitivity of the Absorption Spectra and Photochemistry of Nitenpyram and Analogs. *ACS Earth and Space Chemistry*, **2019**, 3, 2063-2075	3.2	7
203	Probing surfaces of atmospherically relevant organic particles by easy ambient sonic-spray ionization mass spectrometry (EASI-MS). *Chemical Science*, **2019**, 10, 884-897	9.4	7
202	Quantum Yields and NO Formation from Photolysis of Solid Films of Neonicotinoids. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 1638-1646	5.7	7
201	Multiphase chemistry in the troposphere: It all starts □and ends □with gases. *International Journal of Chemical Kinetics*, **2019**, 51, 736-752	1.4	4
200	Role of Gas-Phase Halogen Bonding in Ambient Chemical Ionization Mass Spectrometry Utilizing Iodine. *ACS Earth and Space Chemistry*, **2019**, 3, 1315-1328	3.2	1
199	Photochemistry of Solid Films of the Neonicotinoid Nitenpyram. *Environmental Science & Technology*, **2018**, 52, 2760-2767	10.3	12
198	New Mechanism of Extractive Electrospray Ionization Mass Spectrometry for Heterogeneous Solid Particles. *Analytical Chemistry*, **2018**, 90, 2055-2062	7.8	15
197	Uptake of water by an acid-base nanoparticle: theoretical and experimental studies of the methanesulfonic acid-methylamine system. *Physical Chemistry Chemical Physics*, **2018**, 20, 22249-22259	3.6	12
196	Understanding interactions of organic nitrates with the surface and bulk of organic films: implications for particle growth in the atmosphere. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1593-1610	4.3	11
195	The Role of Oxalic Acid in New Particle Formation from Methanesulfonic Acid, Methylamine, and Water. *Environmental Science & Technology*, **2017**, 51, 2124-2130	10.3	38

194	Kinetics, mechanisms and ionic liquids in the uptake of n-butylamine onto low molecular weight dicarboxylic acids. *Physical Chemistry Chemical Physics*, **2017**, 19, 4827-4839	3.6	9
193	Introductory lecture: atmospheric chemistry in the Anthropocene. *Faraday Discussions*, **2017**, 200, 11-58	3.6	15
192	Proton Transfer in Mixed Clusters of Methanesulfonic Acid, Methylamine, and Oxalic Acid: Implications for Atmospheric Particle Formation. *Journal of Physical Chemistry A*, **2017**, 121, 2377-2385	2.8	29
191	Photochemistry of Thin Solid Films of the Neonicotinoid Imidacloprid on Surfaces. *Environmental Science & Technology*, **2017**, 51, 2660-2668	10.3	26
190	Particle formation and growth from oxalic acid, methanesulfonic acid, trimethylamine and water: a combined experimental and theoretical study. *Physical Chemistry Chemical Physics*, **2017**, 19, 28286-28301	3.6	30
189	New insights into atmospherically relevant reaction systems using direct analysis in real-time mass spectrometry (DART-MS). *Atmospheric Measurement Techniques*, **2017**, 10, 1373-1386	4	15
188	A cautionary note on the effects of laboratory air contaminants on ambient ionization mass spectrometry measurements. *Rapid Communications in Mass Spectrometry*, **2017**, 31, 1659-1668	2.2	10
187	Knudsen cell studies of the uptake of gaseous ammonia and amines onto C3-C7 solid dicarboxylic acids. *Physical Chemistry Chemical Physics*, **2017**, 19, 26296-26309	3.6	4
186	Nanoparticles grown from methanesulfonic acid and methylamine: microscopic structures and formation mechanism. *Physical Chemistry Chemical Physics*, **2017**, 19, 31949-31957	3.6	8
185	New Particle Formation from Methanesulfonic Acid and Amines/Ammonia as a Function of Temperature. *Environmental Science & Technology*, **2017**, 51, 243-252	10.3	57
184	Phase, composition, and growth mechanism for secondary organic aerosol from the ozonolysis of <i></i>-cedrene. *Atmospheric Chemistry and Physics*, **2016**, 16, 3245-3264	6.8	25
183	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. *Journal of Physical Chemistry B*, **2016**, 120, 1526-36	3.4	86
182	Challenges associated with the sampling and analysis of organosulfur compounds in air using real-time PTR-ToF-MS and offline GC-FID. *Atmospheric Measurement Techniques*, **2016**, 9, 1325-1340	4	20
181	Mechanism for formation of atmospheric Cl atom precursors in the reaction of dinitrogen oxides with HCl/Cl(-) on aqueous films. *Physical Chemistry Chemical Physics*, **2015**, 17, 19360-70	3.6	18
180	New particle formation and growth from methanesulfonic acid, trimethylamine and water. *Physical Chemistry Chemical Physics*, **2015**, 17, 13699-709	3.6	67
179	Role of the reaction of stabilized Criegee intermediates with peroxy radicals in particle formation and growth in air. *Physical Chemistry Chemical Physics*, **2015**, 17, 12500-14	3.6	66
178	The future of airborne sulfur-containing particles in the absence of fossil fuel sulfur dioxide emissions. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13514-9	11.5	57
177	The effect of cations on NO2 production from the photolysis of aqueous thin water films of nitrate salts. *Physical Chemistry Chemical Physics*, **2015**, 17, 32211-8	3.6	10

176	Computational studies of atmospherically-relevant chemical reactions in water clusters and on liquid water and ice surfaces. *Accounts of Chemical Research*, **2015**, 48, 399-406	24.3	68
175	Rapid formation of molecular bromine from deliquesced NaBr aerosol in the presence of ozone and UV light. *Atmospheric Environment*, **2014**, 89, 491-506	5.3	12
174	Infrared studies of the reaction of methanesulfonic acid with trimethylamine on surfaces. *Environmental Science & Technology*, **2014**, 48, 323-30	10.3	15
173	Reaction of a charge-separated ONONO2 species with water in the formation of HONO: an MP2 Molecular Dynamics study. *Physical Chemistry Chemical Physics*, **2014**, 16, 4483-7	3.6	24
172	New insights into secondary organic aerosol from the ozonolysis of □pinene from combined infrared spectroscopy and mass spectrometry measurements. *Physical Chemistry Chemical Physics*, **2014**, 16, 22706-16	3.6	24
171	Interactions of gaseous HNO3 and water with individual and mixed alkyl self-assembled monolayers at room temperature. *Physical Chemistry Chemical Physics*, **2014**, 16, 2358-67	3.6	6
170	Aerosol fast flow reactor for laboratory studies of new particle formation. *Journal of Aerosol Science*, **2014**, 78, 30-40	4.3	17
169	Surfactant-free latex spheres for size calibration of mobility particle sizers in atmospheric aerosol applications. *Atmospheric Environment*, **2014**, 82, 56-59	5.3	8
168	Measurement of gas-phase ammonia and amines in air by collection onto an ion exchange resin and analysis by ion chromatography. *Atmospheric Measurement Techniques*, **2014**, 7, 2733-2744	4	40
167	Measurement of gas-phase ammonia and amines in air by collection onto an ion exchange resin and analysis by ion chromatography **2014**,		7
166	Preface of John C. Hemminger Festschrift. *Journal of Physical Chemistry C*, **2014**, 118, 28923-28923	3.8	
165	Amine□Amine Exchange in Aminium□Methanesulfonate Aerosols. *Journal of Physical Chemistry C*, **2014**, 118, 29431-29440	3.8	26
164	Integrating phase and composition of secondary organic aerosol from the ozonolysis of □pinene. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7552-7	11.5	116
163	A semi-blind source separation method for differential optical absorption spectroscopy of atmospheric gas mixtures. *Inverse Problems and Imaging*, **2014**, 8, 587-610	2.1	
162	Chlorine chronicles. *Nature Chemistry*, **2013**, 5, 724	17.6	9
161	Experimental and theoretical studies of the interaction of gas phase nitric acid and water with a self-assembled monolayer. *Physical Chemistry Chemical Physics*, **2013**, 15, 448-58	3.6	15
160	Production of gas phase NO2 and halogens from the photolysis of thin water films containing nitrate, chloride and bromide ions at room temperature. *Physical Chemistry Chemical Physics*, **2013**, 15, 17636-46	3.6	14
159	Nitrogen dioxide at the air-water interface: trapping, absorption, and solvation in the bulk and at the surface. *Physical Chemistry Chemical Physics*, **2013**, 15, 204-12	3.6	30

158	Hydroxyl radical oxidation of phospholipid-coated NaCl particles. *Physical Chemistry Chemical Physics*, **2013**, 15, 9833-44	3.6	15
157	Heterogeneous oxidation of a phosphocholine on synthetic sea salt by ozone at room temperature. *Physical Chemistry Chemical Physics*, **2013**, 15, 1990-2002	3.6	8
156	Isomerization and ionization of N2O4 on model ice and silica surfaces. *Chemical Physics*, **2012**, 405, 52-59	2.3	11
155	Thermal and photochemical reactions of NO2 on chromium(III) oxide surfaces at atmospheric pressure. *Physical Chemistry Chemical Physics*, **2012**, 14, 15840-8	3.6	10
154	Measurement of vapor pressures and heats of sublimation of dicarboxylic acids using atmospheric solids analysis probe mass spectrometry. *Journal of Physical Chemistry A*, **2012**, 116, 5900-9	2.8	23
153	NOx Reactions on Aqueous Surfaces with Gaseous HCl: Formation of a Potential Precursor to Atmospheric Cl Atoms. *Journal of Physical Chemistry Letters*, **2012**, 3, 3405-10	6.4	30
152	Production of gas phase NO□ and halogens from the photochemical oxidation of aqueous mixtures of sea salt and nitrate ions at room temperature. *Environmental Science & Technology*, **2012**, 46, 10447-54	10.3	27
151	Moyers receives Edward A. Flinn III Award: Citation. *Eos*, **2012**, 93, 33-34	1.5	
150	Analysis of secondary organic aerosols in air using extractive electrospray ionization mass spectrometry (EESI-MS). *RSC Advances*, **2012**, 2, 2930	3.7	39
149	Nonequilibrium atmospheric secondary organic aerosol formation and growth. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 2836-41	11.5	234
148	Simplified mechanism for new particle formation from methanesulfonic acid, amines, and water via experiments and ab initio calculations. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18719-24	11.5	131
147	F. Sherwood Rowland: A man of science, vision, integrity, and kindness. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13881-13882	11.5	78
146	Surprising formation of p-cymene in the oxidation of □-pinene in air by the atmospheric oxidants OH, O3, and NO3. *Environmental Science & Technology*, **2011**, 45, 2755-60	10.3	21
145	The impact of organic coatings on light scattering by sodium chloride particles. *Atmospheric Environment*, **2011**, 45, 4123-4132	5.3	14
144	Thermal and photochemical oxidation of self-assembled monolayers on alumina particles exposed to nitrogen dioxide. *Physical Chemistry Chemical Physics*, **2011**, 13, 604-11	3.6	3
143	Nitrate ion photolysis in thin water films in the presence of bromide ions. *Journal of Physical Chemistry A*, **2011**, 115, 5810-21	2.8	44
142	Atmospheric chemistry. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6566-7	11.5	29
141	A New Aerosol Flow System for Photochemical and Thermal Studies of Tropospheric Aerosols. *Aerosol Science and Technology*, **2010**, 44, 329-338	3.4	31

140	Catalytic role for water in the atmospheric production of ClNO. *Journal of Physical Chemistry A*, **2010**, 114, 4609-18	2.8	38
139	Hydroxyl radical quantum yields from isopropyl nitrite photolysis in air. *Environmental Science & Technology*, **2010**, 44, 8150-5	10.3	17
138	Halogens in the troposphere. *Analytical Chemistry*, **2010**, 82, 770-6	7.8	55
137	Identification of organic nitrates in the NO3 radical initiated oxidation of alpha-pinene by atmospheric pressure chemical ionization mass spectrometry. *Environmental Science & Technology*, **2010**, 44, 5887-93	10.3	49
136	Identification of Fatty Acids, Phospholipids, and Their Oxidation Products Using Matrix-Assisted Laser Desorption Ionization Mass Spectrometry and Electrospray Ionization Mass Spectrometry. *Journal of Chemical Education*, **2010**, 87, 186-189	2.4	12
135	Comparison of FTIR and particle mass spectrometry for the measurement of particulate organic nitrates. *Environmental Science & Technology*, **2010**, 44, 1056-61	10.3	137
134	Atmospheric solids analysis probe mass spectrometry: a new approach for airborne particle analysis. *Analytical Chemistry*, **2010**, 82, 5922-7	7.8	35
133	Reaction of gas phase OH with unsaturated self-assembled monolayers and relevance to atmospheric organic oxidations. *Physical Chemistry Chemical Physics*, **2010**, 12, 9419-28	3.6	27
132	Characterization of organic coatings on hygroscopic salt particles and their atmospheric impacts. *Atmospheric Environment*, **2010**, 44, 1209-1218	5.3	27
131	Chlorine activation indoors and outdoors via surface-mediated reactions of nitrogen oxides with hydrogen chloride. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13647-54	11.5	96
130	Contamination from electrically conductive silicone tubing during aerosol chemical analysis. *Atmospheric Environment*, **2009**, 43, 2836-2839	5.3	20
129	Probing the sensitivity of gaseous Br2 production from the oxidation of aqueous bromide-containing aerosols and atmospheric implications. *Atmospheric Environment*, **2009**, 43, 3951-3962	5.3	15
128	Reactions at surfaces in the atmosphere: integration of experiments and theory as necessary (but not necessarily sufficient) for predicting the physical chemistry of aerosols. *Physical Chemistry Chemical Physics*, **2009**, 11, 7760-79	3.6	193
127	Structure of large nitrate-water clusters at ambient temperatures: simulations with effective fragment potentials and force fields with implications for atmospheric chemistry. *Journal of Physical Chemistry A*, **2009**, 113, 12805-14	2.8	44
126	Nitrite-induced oxidation of organic coatings on models for airborne particles. *Journal of Physical Chemistry A*, **2009**, 113, 7205-12	2.8	12
125	Ionization of N2O4 in contact with water: mechanism, time scales and atmospheric implications. *Journal of the American Chemical Society*, **2009**, 131, 12180-5	16.4	67
124	Experimental and theoretical characterization of adsorbed water on self-assembled monolayers: understanding the interaction of water with atmospherically relevant surfaces. *Journal of Physical Chemistry A*, **2009**, 113, 2060-9	2.8	51
123	Secondary Ozonide Formation from the Ozone Oxidation of Unsaturated Self-Assembled Monolayers on Zinc Selenide Attenuated Total Reflectance Crystals. *Journal of Physical Chemistry C*, **2009**, 113, 11060-11065	3.8	18

122	Photooxidation of □pinene at high relative humidity in the presence of increasing concentrations of NOx. *Atmospheric Environment*, **2008**, 42, 5044-5060	5.3	70
121	Sensitivity and uncertainty analysis of the mechanism of gas-phase chlorine production from NaCl aerosols in the MAGIC model. *Atmospheric Environment*, **2008**, 42, 6934-6941	5.3	7
120	Complexes of HNO3 and NO3 - with NO2 and N2O4, and their potential role in atmospheric HONO formation. *Physical Chemistry Chemical Physics*, **2008**, 10, 6019-32	3.6	36
119	Enhanced surface photochemistry in chloride-nitrate ion mixtures. *Physical Chemistry Chemical Physics*, **2008**, 10, 5668-77	3.6	51
118	Unusual oxidation of organics at interfaces from the bottom up and atmospheric implications. *Journal of the American Chemical Society*, **2008**, 130, 11272-3	16.4	17
117	A new mechanism for ozonolysis of unsaturated organics on solids: phosphocholines on NaCl as a model for sea salt particles. *Physical Chemistry Chemical Physics*, **2008**, 10, 528-41	3.6	37
116	Nitrate ion photochemistry at interfaces: a new mechanism for oxidation of alpha-pinene. *Physical Chemistry Chemical Physics*, **2008**, 10, 3063-71	3.6	24
115	A new approach to studying aqueous reactions using diffuse reflectance infrared Fourier transform spectrometry: application to the uptake and oxidation of SO2 on OH-processed model sea salt aerosol. *Physical Chemistry Chemical Physics*, **2007**, 9, 1980-90	3.6	22
114	Enhanced photolysis in aerosols: evidence for important surface effects. *Physical Chemistry Chemical Physics*, **2006**, 8, 4700-10	3.6	59
113	Substrate changes associated with the chemistry of self-assembled monolayers on silicon. *Langmuir* , **2006**, 22, 5617-24	4	17
112	Gas-phase molecular halogen formation from NaCl and NaBr aerosols: when are interface reactions important?. *Journal of Physical Chemistry A*, **2006**, 110, 1859-67	2.8	47
111	Photochemical processes induced by vibrational overtone excitations: dynamics simulations for cis-HONO, trans-HONO, HNO3, and HNO3-H2O. *Journal of Physical Chemistry A*, **2006**, 110, 5342-54	2.8	47
110	New experimental and theoretical approach to the heterogeneous hydrolysis of NO2: key role of molecular nitric acid and its complexes. *Journal of Physical Chemistry A*, **2006**, 110, 6886-97	2.8	103
109	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. *Journal of Physical Chemistry A*, **2006**, 110, 10619-27	2.8	55
108	Unusual aggregates from the oxidation of alkene self-assembled monolayers: a previously unrecognized mechanism for SAM ozonolysis?. *Physical Chemistry Chemical Physics*, **2005**, 7, 3605-9	3.6	41
107	Response to Comments on "Reactions at Interfaces As a Source of Sulfate Formation in Sea-Salt Particles". *Science*, **2004**, 303, 628d-628	33.3	3
106	The photochemical production of HONO during the heterogeneous hydrolysis of NO2. *Physical Chemistry Chemical Physics*, **2004**, 6, 3836	3.6	116
105	Interactions of gaseous nitric acid with surfaces of environmental interest. *Physical Chemistry Chemical Physics*, **2004**, 6, 3879	3.6	28

104	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. *Physical Chemistry Chemical Physics*, **2004**, 6, 604	3.6	182
103	Adsorption of Atmospherically Relevant Gases at the Air/Water Interface: Free Energy Profiles of Aqueous Solvation of N2, O2, O3, OH, H2O, HO2, and H2O2. *Journal of Physical Chemistry A*, **2004**, 108, 11573-11579	2.8	162
102	Interaction of Gas-Phase Ozone at 296 K with Unsaturated Self-Assembled Monolayers:A New Look at an Old System. *Journal of Physical Chemistry A*, **2004**, 108, 10473-10485	2.8	116
101	Formation of Molecular Bromine from the Reaction of Ozone with Deliquesced NaBr Aerosol: Evidence for Interface Chemistry. *Journal of Physical Chemistry A*, **2004**, 108, 11559-11572	2.8	129
100	Sodium nitrate particles: physical and chemical properties during hydration and dehydration, and implications for aged sea salt aerosols. *Journal of Aerosol Science*, **2004**, 35, 869-887	4.3	131
99	Fluorescence, Absorption, and Excitation Spectra of Polycyclic Aromatic Hydrocarbons as a Tool for Quantitative Analysis. *Journal of Chemical Education*, **2004**, 81, 242	2.4	46
98	Measurement of Trace Metals in Tobacco and Cigarette Ash by Inductively Coupled Plasma-Atomic Emission Spectroscopy. *Journal of Chemical Education*, **2003**, 80, 83	2.4	15
97	Measurement of Organics Using Three FTIR Techniques: Absorption, Attenuated Total Reflectance, and Diffuse Reflectance. *Journal of Chemical Education*, **2003**, 80, 672	2.4	6
96	Knudsen Cell Studies of the Reaction of Gaseous HNO3with NaCl Using Less than a Single Layer of Particles at 298 K:A Modified Mechanism. *Journal of Physical Chemistry A*, **2003**, 107, 7818-7826	2.8	38
95	The tropospheric chemistry of sea salt: a molecular-level view of the chemistry of NaCl and NaBr. *Chemical Reviews*, **2003**, 103, 4801-22	68.1	342
94	The heterogeneous hydrolysis of NO2 in laboratory systems and in outdoor and indoor atmospheres: An integrated mechanism. *Physical Chemistry Chemical Physics*, **2003**, 5, 223-242	3.6	486
93	Laboratory studies of potential mechanisms of renoxification of tropospheric nitric acid. *Environmental Science & Technology*, **2003**, 37, 548-54	10.3	65
92	HONO decomposition on borosilicate glass surfaces: implications for environmental chamber studies and field experiments. *Physical Chemistry Chemical Physics*, **2003**, 5, 5236	3.6	46
91	Knudsen cell studies of the reactions of N2O5 and ClONO2 with NaCl: development and application of a model for estimating available surface areas and corrected uptake coefficients. *Physical Chemistry Chemical Physics*, **2003**, 5, 1780-1789	3.6	44
90	Reactions at interfaces as a source of sulfate formation in sea-salt particles. *Science*, **2003**, 301, 340-4	33.3	222
89	Molecular halogens before and during ozone depletion events in the Arctic at polar sunrise: concentrations and sources. *Atmospheric Environment*, **2002**, 36, 2721-2731	5.3	108
88	Kinetics of reactions of chlorine atoms with a series of alkenes at 1 atm and 298 K: structure and reactivity. *Physical Chemistry Chemical Physics*, **2002**, 4, 5813-5820	3.6	106
87	An upper limit to the concentration of an SO2 complex at the airwater interface at 298 K: infrared experiments and ab initio calculations. *Physical Chemistry Chemical Physics*, **2002**, 4, 1832-1838	3.6	19

86	Rate constants for the reactions of chlorine atoms with a series of unsaturated aldehydes and ketones at 298 K: structure and reactivity. *Physical Chemistry Chemical Physics*, **2002**, 4, 1824-1831	3.6	37
85	The role of Br2 and BrCl in surface ozone destruction at polar sunrise. *Science*, **2001**, 291, 471-4	33.3	326
84	Unique markers of chlorine atom chemistry in coastal urban areas: The reaction with 1,3-butadiene in air at room temperature. *Journal of Geophysical Research*, **2001**, 106, 4939-4958		10
83	Reaction of Gaseous Nitric Oxide with Nitric Acid on Silica Surfaces in the Presence of Water at Room Temperature. *Journal of Physical Chemistry A*, **2001**, 105, 10339-10346	2.8	78
82	Uptake and Reaction of ClONO2on NaCl and Synthetic Sea Salt. *Journal of Physical Chemistry A*, **2001**, 105, 5178-5187	2.8	34
81	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. *Journal of Physical Chemistry A*, **2001**, 105, 1890-1896	2.8	42
80	The Atmospheric System **2000**, 15-42		6
79	Photochemistry of Important Atmospheric Species **2000**, 86-129		10
78	Kinetics and Atmospheric Chemistry **2000**, 130-178		37
77	Rates and Mechanisms of Gas-Phase Reactions in Irradiated Organic NOx Air Mixtures **2000**, 179-263		18
76	Chemistry of Inorganic Nitrogen Compounds **2000**, 264-293		10
75	Acid Deposition: Formation and Fates of Inorganic and Organic Acids in the Troposphere **2000**, 294-348		15
74	Homogeneous and Heterogeneous Chemistry in the Stratosphere **2000**, 657-726		5
73	Global Tropospheric Chemistry and Climate Change **2000**, 762-843		3
72	Particles in the Troposphere **2000**, 349-435		13
71	Airborne Polycyclic Aromatic Hydrocarbons and Their Derivatives: Atmospheric Chemistry and Toxicological Implications **2000**, 436-546		11
70	Analytical Methods and Typical Atmospheric Concentrations for Gases and Particles **2000**, 547-656		7
69	Experiments and simulations of ion-enhanced interfacial chemistry on aqueous NaCl aerosols. *Science*, **2000**, 288, 301-6	33.3	566

68	Infrared Absorption Cross-Section Measurements for Nitrous Acid (HONO) at Room Temperature. *Journal of Physical Chemistry A*, **2000**, 104, 1692-1699	2.8	47
67	FTIR Studies of the Reaction of Gaseous NO with HNO3 on Porous Glass: Implications for Conversion of HNO3 to Photochemically Active NOx in the Atmosphere. *Journal of Physical Chemistry A*, **2000**, 104, 9705-9711	2.8	54
66	A Unique Method for Laboratory Quantification of Gaseous Nitrous Acid (HONO) Using the Reaction HONO + HCl -iClNO + H2O. *Journal of Physical Chemistry A*, **2000**, 104, 329-335	2.8	16
65	Enhancement of N2O4 on Porous Glass at Room Temperature: A Key Intermediate in the Heterogeneous Hydrolysis of NO2?. *Journal of Physical Chemistry A*, **2000**, 104, 171-175	2.8	48
64	Real-Time Monitoring of the Kinetics and Gas-Phase Products of the Reaction of Ozone with an Unsaturated Phospholipid at the Air□Water Interface. *Langmuir*, **2000**, 16, 9321-9330	4	92
63	Physical Chemistry of Airborne Sea Salt Particles and Their Components. *Journal of Physical Chemistry A*, **2000**, 104, 11463-11477	2.8	190
62	4-Chlorocrotonaldehyde as a unique chlorine-containing compound from the reaction of atomic chlorine with 1,3-butadiene in air at room temperature. *Geophysical Research Letters*, **2000**, 27, 947-950	4.9	7
61	The uptake of SO2 on synthetic sea salt and some of its components. *Geophysical Research Letters*, **2000**, 27, 887-890	4.9	34
60	Laboratory studies of sources of HONO in polluted urban atmospheres. *Geophysical Research Letters*, **2000**, 27, 3229-3232	4.9	46
59	FTIR Study of N2O3on Porous Glass at Room Temperature. *Journal of Physical Chemistry A*, **2000**, 104, 8038-8044	2.8	7
58	Kinetics of reaction of chlorine atoms with some biogenic organics. *International Journal of Chemical Kinetics*, **1999**, 31, 491-499	1.4	51
57	Techniques for quantifying gaseous HOCl using atmospheric pressure ionization mass spectrometry. *Physical Chemistry Chemical Physics*, **1999**, 1, 5615-5621	3.6	14
56	Characterization of HOCl Using Atmospheric Pressure Ionization Mass Spectrometry. *Journal of Physical Chemistry A*, **1999**, 103, 8231-8238	2.8	20
55	Heterogeneous chemistry in the troposphere: Experimental approaches and applications to the chemistry of sea salt particles. *International Reviews in Physical Chemistry*, **1999**, 18, 343-385	7	73
54	Kinetics of reaction of chlorine atoms with some biogenic organics **1999**, 31, 491		1
53	Unexpectedly high concentrations of molecular chlorine in coastal air. *Nature*, **1998**, 394, 353-356	50.4	520
52	Reply to Comment on □nverse Kinetic Isotope Effect in the Reaction of Atomic Chlorine with C2H4 and C2D4□*Journal of Physical Chemistry A*, **1998**, 102, 6056-6056	2.8	
51	Bromine activation in the troposphere by the dark reaction of O3 with seawater ice. *Geophysical Research Letters*, **1998**, 25, 3923-3926	4.9	108

50	An upper limit on the production of N2O from the reaction of O(□D) With CO2 in the presence of N2. *Geophysical Research Letters*, **1998**, 25, 517-520	4.9	6
49	Rate Constants and Kinetic Isotope Effects in the Reactions of Atomic Chlorine with n-Butane and Simple Alkenes at Room Temperature. *Journal of Physical Chemistry A*, **1998**, 102, 8510-8519	2.8	74
48	A New GC-MS Experiment for the Undergraduate Instrumental Analysis Laboratory in Environmental Chemistry: Methyl-t-butyl Ether and Benzene in Gasoline. *Journal of Chemical Education*, **1998**, 75, 1595	2.4	14
47	Formation of molecular chlorine from the photolysis of ozone and aqueous sea-salt particles. *Science*, **1998**, 279, 74-7	33.3	262
46	Chromatography, Absorption, and Fluorescence: A New Instrumental Analysis Experiment on the Measurement of Polycyclic Aromatic Hydrocarbons in Cigarette Smoke. *Journal of Chemical Education*, **1998**, 75, 1599	2.4	12
45	Inverse Kinetic Isotope Effect in the Reaction of Atomic Chlorine with C2H4 and C2D4. *Journal of Physical Chemistry A*, **1997**, 101, 9187-9190	2.8	23
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