Barbara Finlayson-Pitts

List of Publications by Year
in descending order

211 papers	13,689 citations	22099 59 h-index	25716 108 g-index
225 all docs	225 docs citations	225 times ranked	8039 citing authors

#	Article	IF	Citations
1	Effects of the VACES particle concentrator on secondary organic aerosol and ambient particle composition. Aerosol Science and Technology, 2022, 56, 785-801.	1.5	0
2	Probing Matrix Effects on the Heterogeneous Photochemistry of Neonicotinoid Pesticides, Dinotefuran and Nitenpyram. ACS Earth and Space Chemistry, 2021, 5, 1196-1209.	1.2	4
3	Novel ionization reagent for the measurement of gasâ€phase ammonia and amines using a standâ€alone atmospheric pressure gas chromatography (APGC) source. Rapid Communications in Mass Spectrometry, 2020, 34, e8561.	0.7	6
4	Evidence for a kinetically controlled burying mechanism for growth of high viscosity secondary organic aerosol. Environmental Sciences: Processes and Impacts, 2020, 22, 66-83.	1.7	14
5	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.	1.2	20
6	Open questions on the chemical composition of airborne particles. Communications Chemistry, 2020, 3, .	2.0	16
7	Enhanced Gas Uptake during Î±-Pinene Ozonolysis Points to a Burying Mechanism. ACS Earth and Space Chemistry, 2020, 4, 1435-1447.	1.2	4
8	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.	3.3	14
9	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.	1.7	18
10	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.	1.2	8
11	Probing surfaces of atmospherically relevant organic particles by easy ambient sonic-spray ionization mass spectrometry (EASI-MS). Chemical Science, 2019, 10, 884-897.	3.7	14
12	Quantum Yields and N₂O Formation from Photolysis of Solid Films of Neonicotinoids. Journal of Agricultural and Food Chemistry, 2019, 67, 1638-1646.	2.4	9
13	Multiphase chemistry in the troposphere: It all starts â€¦ and ends â€¦ with gases. International Journal of Chemical Kinetics, 2019, 51, 736-752.	1.0	6
14	Role of Gas-Phase Halogen Bonding in Ambient Chemical Ionization Mass Spectrometry Utilizing Iodine. ACS Earth and Space Chemistry, 2019, 3, 1315-1328.	1.2	3
15	Photochemistry of Solid Films of the Neonicotinoid Nitenpyram. Environmental Science & Technology, 2018, 52, 2760-2767.	4.6	21
16	New Mechanism of Extractive Electrospray Ionization Mass Spectrometry for Heterogeneous Solid Particles. Analytical Chemistry, 2018, 90, 2055-2062.	3.2	22
17	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.	1.7	12
18	Uptake of water by an acidâ€“base nanoparticle: theoretical and experimental studies of the methanesulfonic acidâ€“methylamine system. Physical Chemistry Chemical Physics, 2018, 20, 22249-22259.	1.3	15

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19	The Role of Oxalic Acid in New Particle Formation from Methanesulfonic Acid, Methylamine, and Water. Environmental Science & Technology, 2017, 51, 2124-2130.	4.6	53
20	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.	1.3	12
21	Introductory lecture: atmospheric chemistry in the Anthropocene. Faraday Discussions, 2017, 200, 11-58.	1.6	17
22	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.	1.1	42
23	Photochemistry of Thin Solid Films of the Neonicotinoid Imidacloprid on Surfaces. Environmental Science & Technology, 2017, 51, 2660-2668.	4.6	37
24	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.	1.3	42
25	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.	0.7	12
26	Knudsen cell studies of the uptake of gaseous ammonia and amines onto C3â€“C7 solid dicarboxylic acids. Physical Chemistry Chemical Physics, 2017, 19, 26296-26309.	1.3	8
27	Nanoparticles grown from methanesulfonic acid and methylamine: microscopic structures and formation mechanism. Physical Chemistry Chemical Physics, 2017, 19, 31949-31957.	1.3	11
28	New Particle Formation from Methanesulfonic Acid and Amines/Ammonia as a Function of Temperature. Environmental Science & Technology, 2017, 51, 243-252.	4.6	76
29	New insights into atmospherically relevant reaction systems using direct analysis in real-time mass spectrometry (DART-MS). Atmospheric Measurement Techniques, 2017, 10, 1373-1386.	1.2	19
30	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.	1.2	27
31	Phase, composition, and growth mechanism for secondary organic aerosol from the ozonolysis of <i>Î±</i>-cedrene. Atmospheric Chemistry and Physics, 2016, 16, 3245-3264.	1.9	33
32	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. Journal of Physical Chemistry B, 2016, 120, 1526-1536.	1.2	115
33	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, 13514-13519.	3.3	76
34	The effect of cations on NO₂ production from the photolysis of aqueous thin water films of nitrate salts. Physical Chemistry Chemical Physics, 2015, 17, 32211-32218.	1.3	16
35	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.	7.6	89
36	Mechanism for formation of atmospheric Cl atom precursors in the reaction of dinitrogen oxides with HCl/Cl^{â˜}on aqueous films. Physical Chemistry Chemical Physics, 2015, 17, 19360-19370.	1.3	20

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37	New particle formation and growth from methanesulfonic acid, trimethylamine and water. Physical Chemistry Chemical Physics, 2015, 17, 13699-13709.	1.3	88
38	Role of the reaction of stabilized Criegee intermediates with peroxy radicals in particle formation and growth in air. Physical Chemistry Chemical Physics, 2015, 17, 12500-12514.	1.3	78
39	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.	1.2	45
40	Preface of John C. Hemminger Festschrift. Journal of Physical Chemistry C, 2014, 118, 28923-28923.	1.5	0
41	Amineâ€“Amine Exchange in Aminiumâ€“Methanesulfonate Aerosols. Journal of Physical Chemistry C, 2014, 118, 29431-29440.	1.5	31
42	Integrating phase and composition of secondary organic aerosol from the ozonolysis of Î±-pinene. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7552-7557.	3.3	130
43	Rapid formation of molecular bromine from deliquesced NaBr aerosol in the presence of ozone and UV light. Atmospheric Environment, 2014, 89, 491-506.	1.9	12
44	Infrared Studies of the Reaction of Methanesulfonic Acid with Trimethylamine on Surfaces. Environmental Science & Technology, 2014, 48, 323-330.	4.6	23
45	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.	1.3	31
46	New insights into secondary organic aerosol from the ozonolysis of Î±-pinene from combined infrared spectroscopy and mass spectrometry measurements. Physical Chemistry Chemical Physics, 2014, 16, 22706-22716.	1.3	24
47	Interactions of gaseous HNO‹sub›3‹/sub›and water with individual and mixed alkyl self-assembled monolayers at room temperature. Physical Chemistry Chemical Physics, 2014, 16, 2358-2367.	1.3	6
48	Aerosol fast flow reactor for laboratory studies of new particle formation. Journal of Aerosol Science, 2014, 78, 30-40.	1.8	21
49	Surfactant-free latex spheres for size calibration of mobility particle sizers in atmospheric aerosol applications. Atmospheric Environment, 2014, 82, 56-59.	1.9	9
50	A semi-blind source separation method for differential optical absorption spectroscopy of atmospheric gas mixtures. Inverse Problems and Imaging, 2014, 8, 587-610.	0.6	0
51	Chlorine chronicles. Nature Chemistry, 2013, 5, 724-724.	6.6	15
52	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, 448-458.	1.3	15
53	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.	1.3	20
54	Nitrogen dioxide at the airâ€“water interface: trapping, absorption, and solvation in the bulk and at the surface. Physical Chemistry Chemical Physics, 2013, 15, 204-212.	1.3	33

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55	Hydroxyl radical oxidation of phospholipid-coated NaCl particles. Physical Chemistry Chemical Physics, 2013, 15, 9833.	1.3	17
56	Heterogeneous oxidation of a phosphocholine on synthetic sea salt by ozone at room temperature. Physical Chemistry Chemical Physics, 2013, 15, 1990-2002.	1.3	8
57	Nonequilibrium atmospheric secondary organic aerosol formation and growth. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2836-2841.	3.3	261
58	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, 18719-18724.	3.3	173
59	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.	3.3	0
60	Isomerization and ionization of N2O4 on model ice and silica surfaces. Chemical Physics, 2012, 405, 52-59.	0.9	13
61	Thermal and photochemical reactions of NO2 on chromium(iii) oxide surfaces at atmospheric pressure. Physical Chemistry Chemical Physics, 2012, 14, 15840.	1.3	10
62	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, 5900-5909.	1.1	26
63	NO_x Reactions on Aqueous Surfaces with Gaseous HCl: Formation of a Potential Precursor to Atmospheric Cl Atoms. Journal of Physical Chemistry Letters, 2012, 3, 3405-3410.	2.1	34
64	Production of Gas Phase NO₂ and Halogens from the Photochemical Oxidation of Aqueous Mixtures of Sea Salt and Nitrate Ions at Room Temperature. Environmental Science & Technology, 2012, 46, 10447-10454.	4.6	35
65	Moyers receives Edward A. Flinn III Award: Citation. Eos, 2012, 93, 33-34.	0.1	2
66	Analysis of secondary organic aerosols in air using extractive electrospray ionization mass spectrometry (EESI-MS). RSC Advances, 2012, 2, 2930.	1.7	44
67	Thermal and photochemical oxidation of self-assembled monolayers on alumina particles exposed to nitrogen dioxide. Physical Chemistry Chemical Physics, 2011, 13, 604-611.	1.3	4
68	Nitrate Ion Photolysis in Thin Water Films in the Presence of Bromide Ions. Journal of Physical Chemistry A, 2011, 115, 5810-5821.	1.1	54
69	Surprising Formation of p-Cymene in the Oxidation of Î±-Pinene in Air by the Atmospheric Oxidants OH, O₃, and NO₃. Environmental Science & Technology, 2011, 45, 2755-2760.	4.6	26
70	The impact of organic coatings on light scattering by sodium chloride particles. Atmospheric Environment, 2011, 45, 4123-4132.	1.9	18
71	Characterization of organic coatings on hygroscopic salt particles and their atmospheric impacts. Atmospheric Environment, 2010, 44, 1209-1218.	1.9	29
72	Atmospheric Chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6566-6567.	3.3	33

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73	A New Aerosol Flow System for Photochemical and Thermal Studies of Tropospheric Aerosols. Aerosol Science and Technology, 2010, 44, 329-338.	1.5	34
74	Catalytic Role for Water in the Atmospheric Production of ClNO. Journal of Physical Chemistry A, 2010, 114, 4609-4618.	1.1	40
75	Hydroxyl Radical Quantum Yields from Isopropyl Nitrite Photolysis in Air. Environmental Science & Technology, 2010, 44, 8150-8155.	4.6	23
76	Halogens in the Troposphere. Analytical Chemistry, 2010, 82, 770-776.	3.2	63
77	Identification of Organic Nitrates in the NO₃Radical Initiated Oxidation of Î±-Pinene by Atmospheric Pressure Chemical Ionization Mass Spectrometry. Environmental Science & Technology, 2010, 44, 5887-5893.	4.6	63
78	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.	1.1	13
79	Comparison of FTIR and Particle Mass Spectrometry for the Measurement of Particulate Organic Nitrates. Environmental Science & Technology, 2010, 44, 1056-1061.	4.6	155
80	Atmospheric Solids Analysis Probe Mass Spectrometry: A New Approach for Airborne Particle Analysis. Analytical Chemistry, 2010, 82, 5922-5927.	3.2	39
81	Reaction of gas phase OH with unsaturated self-assembled monolayers and relevance to atmospheric organic oxidations. Physical Chemistry Chemical Physics, 2010, 12, 9419.	1.3	29
82	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, 13647-13654.	3.3	107
83	Contamination from electrically conductive silicone tubing during aerosol chemical analysis. Atmospheric Environment, 2009, 43, 2836-2839.	1.9	22
84	Probing the sensitivity of gaseous Br2 production from the oxidation of aqueous bromide-containing aerosols and atmospheric implications. Atmospheric Environment, 2009, 43, 3951-3962.	1.9	15
85	Reactions at surfaces in the atmosphere: integration of experiments and theory as necessary (but not) Tj ETQq1 1 0.784314 rgBT /Over Physics, 2009, 11, 7760.	1.3	217
86	Structure of Large Nitrateâ^'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, 12805-12814.	1.1	47
87	Nitrite-Induced Oxidation of Organic Coatings on Models for Airborne Particles. Journal of Physical Chemistry A, 2009, 113, 7205-7212.	1.1	12
88	Ionization of N₂O₄ in Contact with Water: Mechanism, Time Scales and Atmospheric Implications. Journal of the American Chemical Society, 2009, 131, 12180-12185.	6.6	72
89	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, 2060-2069.	1.1	56
90	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.	1.5	18

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91	Photooxidation of Î±-pinene at high relative humidity in the presence of increasing concentrations of NOx. Atmospheric Environment, 2008, 42, 5044-5060.	1.9	78
92	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.	1.9	8
93	Complexes of HNO3 and NO3â¯ with NO2 and N2O4, and their potential role in atmospheric HONO formation. Physical Chemistry Chemical Physics, 2008, 10, 6019.	1.3	39
94	Enhanced surface photochemistry in chlorideâ€“nitrate ion mixtures. Physical Chemistry Chemical Physics, 2008, 10, 5668.	1.3	69
95	Unusual Oxidation of Organics at Interfaces from the Bottom Up and Atmospheric Implications. Journal of the American Chemical Society, 2008, 130, 11272-11273.	6.6	19
96	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, 528-541.	1.3	43
97	Nitrate ion photochemistry at interfaces: a new mechanism for oxidation of Î±-pinene. Physical Chemistry Chemical Physics, 2008, 10, 3063.	1.3	27
98	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.	1.3	26
99	Enhanced photolysis in aerosols: evidence for important surface effects. Physical Chemistry Chemical Physics, 2006, 8, 4700.	1.3	72
100	Introduction:â€‰ Structure and Chemistry at Aqueous Interfaces. Chemical Reviews, 2006, 106, 1137-1139.	23.0	102
101	Substrate Changes Associated with the Chemistry of Self-Assembled Monolayers on Silicon. Langmuir, 2006, 22, 5617-5624.	1.6	19
102	Gas-Phase Molecular Halogen Formation from NaCl and NaBr Aerosols:â€‰ When Are Interface Reactions Important?. Journal of Physical Chemistry A, 2006, 110, 1859-1867.	1.1	50
103	Photochemical Processes Induced by Vibrational Overtone Excitations:Â Dynamics Simulations forcis-HONO,trans-HONO, HNO3, and HNO3â¯H2Oâ€. Journal of Physical Chemistry A, 2006, 110, 5342-5354.	1.1	49
104	New Experimental and Theoretical Approach to the Heterogeneous Hydrolysis of NO2:Â Key Role of Molecular Nitric Acid and Its Complexesâ€. Journal of Physical Chemistry A, 2006, 110, 6886-6897.	1.1	113
105	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, 10619-10627.	1.1	60
106	Unusual aggregates from the oxidation of alkene self-assembled monolayers: a previously unrecognized mechanism for SAM ozonolysis?. Physical Chemistry Chemical Physics, 2005, 7, 3605.	1.3	42
107	Response to Comments on "Reactions at Interfaces As a Source of Sulfate Formation in Sea-Salt Particles". Science, 2004, 303, 628d-628.	6.0	3
108	The photochemical production of HONO during the heterogeneous hydrolysis of NO2. Physical Chemistry Chemical Physics, 2004, 6, 3836.	1.3	136

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109	Interactions of gaseous nitric acid with surfaces of environmental interest. Physical Chemistry Chemical Physics, 2004, 6, 3879.	1.3	31
110	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. Physical Chemistry Chemical Physics, 2004, 6, 604.	1.3	214
111	Adsorption of Atmospherically Relevant Gases at the Air/Water Interface:â€‰ Free Energy Profiles of Aqueous Solvation of N2, O2, O3, OH, H2O, HO2, and H2O2. Journal of Physical Chemistry A, 2004, 108, 11573-11579.	1.1	195
112	Interaction of Gas-Phase Ozone at 296 K with Unsaturated Self-Assembled Monolayers:Â A New Look at an Old System. Journal of Physical Chemistry A, 2004, 108, 10473-10485.	1.1	123
113	Formation of Molecular Bromine from the Reaction of Ozone with Deliquesced NaBr Aerosol:â€‰ Evidence for Interface Chemistry. Journal of Physical Chemistry A, 2004, 108, 11559-11572.	1.1	138
114	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.	1.8	147
115	Fluorescence, Absorption, and Excitation Spectra of Polycyclic Aromatic Hydrocarbons as a Tool for Quantitative Analysis. Journal of Chemical Education, 2004, 81, 242.	1.1	49
116	Measurement of Trace Metals in Tobacco and Cigarette Ash by Inductively Coupled Plasma-Atomic Emission Spectroscopy. Journal of Chemical Education, 2003, 80, 83.	1.1	17
117	Measurement of Organics Using Three FTIR Techniques: Absorption, Attenuated Total Reflectance, and Diffuse Reflectance. Journal of Chemical Education, 2003, 80, 672.	1.1	9
118	Knudsen Cell Studies of the Reaction of Gaseous HNO3with NaCl Using Less than a Single Layer of Particles at 298 K:Â A Modified Mechanism. Journal of Physical Chemistry A, 2003, 107, 7818-7826.	1.1	43
119	The Tropospheric Chemistry of Sea Salt:â€‰ A Molecular-Level View of the Chemistry of NaCl and NaBr. Chemical Reviews, 2003, 103, 4801-4822.	23.0	374
120	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.	1.3	577
121	Laboratory Studies of Potential Mechanisms of Renoxification of Tropospheric Nitric Acid. Environmental Science & Technology, 2003, 37, 548-554.	4.6	77
122	HONO decomposition on borosilicate glass surfaces: implications for environmental chamber studies and field experiments. Physical Chemistry Chemical Physics, 2003, 5, 5236.	1.3	52
123	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.	1.3	49
124	Reactions at Interfaces As a Source of Sulfate Formation in Sea-Salt Particles. Science, 2003, 301, 340-344.	6.0	254
125	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.	1.3	117
126	An upper limit to the concentration of an SO2 complex at the airâ€“water interface at 298 K: infrared experiments and ab initio calculations. Physical Chemistry Chemical Physics, 2002, 4, 1832-1838.	1.3	23

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127	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.	1.3	41
128	Molecular halogens before and during ozone depletion events in the Arctic at polar sunrise: concentrations and sources. Atmospheric Environment, 2002, 36, 2721-2731.	1.9	113
129	The Role of Br2 and BrCl in Surface Ozone Destruction at Polar Sunrise. Science, 2001, 291, 471-474.	6.0	353
130	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.	3.3	14
131	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.	1.1	98
132	Uptake and Reaction of ClONO2on NaCl and Synthetic Sea Salt. Journal of Physical Chemistry A, 2001, 105, 5178-5187.	1.1	39
133	Infrared Spectroscopic Studies of Binary Solutions of Nitric Acid and Water and Ternary Solutions of Nitric Acid, Sulfuric Acid, and Water at Room Temperature:â€‰ Evidence for Molecular Nitric Acid at the Surface. Journal of Physical Chemistry A, 2001, 105, 1890-1896.	1.1	48
134	The Atmospheric System. , 2000, , 15-42.		7
135	Photochemistry of Important Atmospheric Species. , 2000, , 86-129.		14
136	Kinetics and Atmospheric Chemistry. , 2000, , 130-178.		43
137	Rates and Mechanisms of Gas-Phase Reactions in Irradiated Organic â€“ NOx â€“ Air Mixtures. , 2000, , 179-263.		22
138	Chemistry of Inorganic Nitrogen Compounds. , 2000, , 264-293.		14
139	Acid Deposition. , 2000, , 294-348.		19
140	Homogeneous and Heterogeneous Chemistry in the Stratosphere. , 2000, , 657-726.		5
141	Global Tropospheric Chemistry and Climate Change. , 2000, , 762-843.		6
142	Particles in the Troposphere. , 2000, , 349-435.		16
143	Airborne Polycyclic Aromatic Hydrocarbons and Their Derivatives. , 2000, , 436-546.		12
144	Analytical Methods and Typical Atmospheric Concentrations for Gases and Particles. , 2000, , 547-656.		11

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145	Experiments and Simulations of Ion-Enhanced Interfacial Chemistry on Aqueous NaCl Aerosols. Science, 2000, 288, 301-306.	6.0	615
146	Infrared Absorption Cross-Section Measurements for Nitrous Acid (HONO) at Room Temperature. Journal of Physical Chemistry A, 2000, 104, 1692-1699.	1.1	61
147	FTIR Studies of the Reaction of Gaseous NO with HNO3 on Porous Glass:â€‰ Implications for Conversion of HNO3 to Photochemically Active NOx in the Atmosphere. Journal of Physical Chemistry A, 2000, 104, 9705-9711.	1.1	70
148	A Unique Method for Laboratory Quantification of Gaseous Nitrous Acid (HONO) Using the Reaction HONO + HCl â† ClNO + H2O. Journal of Physical Chemistry A, 2000, 104, 329-335.	1.1	21
149	Enhancement of N2O4on Porous Glass at Room Temperature:Â A Key Intermediate in the Heterogeneous Hydrolysis of NO2?. Journal of Physical Chemistry A, 2000, 104, 171-175.	1.1	59
150	Real-Time Monitoring of the Kinetics and Gas-Phase Products of the Reaction of Ozone with an Unsaturated Phospholipid at the Airâ^'Water Interface. Langmuir, 2000, 16, 9321-9330.	1.6	101
151	Physical Chemistry of Airborne Sea Salt Particles and Their Components. Journal of Physical Chemistry A, 2000, 104, 11463-11477.	1.1	217
152	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.	1.5	10
153	The uptake of SO2on synthetic sea salt and some of its components. Geophysical Research Letters, 2000, 27, 887-890.	1.5	39
154	Laboratory studies of sources of HONO in polluted urban atmospheres. Geophysical Research Letters, 2000, 27, 3229-3232.	1.5	56
155	FTIR Study of N2O3on Porous Glass at Room Temperature. Journal of Physical Chemistry A, 2000, 104, 8038-8044.	1.1	10
156	Kinetics of reaction of chlorine atoms with some biogenic organics. International Journal of Chemical Kinetics, 1999, 31, 491-499.	1.0	60
157	Techniques for quantifying gaseous HOCl using atmospheric pressure ionization mass spectrometry. Physical Chemistry Chemical Physics, 1999, 1, 5615-5621.	1.3	18
158	Characterization of HOCl Using Atmospheric Pressure Ionization Mass Spectrometry. Journal of Physical Chemistry A, 1999, 103, 8231-8238.	1.1	28
159	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.	0.9	97
160	Kinetics of reaction of chlorine atoms with some biogenic organics. , 1999, 31, 491.		1
161	Unexpectedly high concentrations of molecular chlorine in coastal air. Nature, 1998, 394, 353-356.	13.7	584
162	Reply to Comment on â€œInverse Kinetic Isotope Effect in the Reaction of Atomic Chlorine with C2H4and C2D4â€• Journal of Physical Chemistry A, 1998, 102, 6056-6056.	1.1	1

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163	Bromine activation in the troposphere by the dark reaction of O3with seawater ice. Geophysical Research Letters, 1998, 25, 3923-3926.	1.5	130
164	An upper limit on the production of N2O from the reaction of O(Â¹D) With CO2in the presence of N2. Geophysical Research Letters, 1998, 25, 517-520.	1.5	7
165	Rate Constants and Kinetic Isotope Effects in the Reactions of Atomic Chlorine withn-Butane and Simple Alkenes at Room Temperature. Journal of Physical Chemistry A, 1998, 102, 8510-8519.	1.1	81
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