D James Donaldson

List of Publications by Year
in descending order

174 papers	8,323 citations	34016 52 h-index	60497 81 g-index
174 all docs	174 docs citations	174 times ranked	5061 citing authors

#	Article	IF	Citations
1	Heterogeneous Photochemistry in the Atmosphere. Chemical Reviews, 2015, 115, 4218-4258.	23.0	497
2	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605.	1.9	352
3	The Influence of Organic Films at the Airâˆ'Aqueous Boundary on Atmospheric Processes. Chemical Reviews, 2006, 106, 1445-1461.	23.0	320
4	Light changes the atmospheric reactivity of soot. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6605-6609.	3.3	252
5	Photolysis of Sulfuric Acid Vapor by Visible Solar Radiation. Science, 2003, 299, 1566-1568.	6.0	155
6	Kinetics and products of the reaction of gas-phase ozone with anthracene adsorbed at the airâ€"aqueous interface. Atmospheric Environment, 2004, 38, 6091-6103.	1.9	151
7	Direct Observation of the Kinetics of an Atmospherically Important Reaction at the Airâˆ'Aqueous Interface. Journal of Physical Chemistry A, 2003, 107, 11038-11042.	1.1	150
8	Adsorption and Reaction of Trace Gas-Phase Organic Compounds on Atmospheric Water Film Surfaces: A Critical Review. Environmental Science & Technology, 2010, 44, 865-873.	4.6	150
9	Adsorption of Atmospheric Gases at the Airâˆ'Water Interface. I. NH3. Journal of Physical Chemistry A, 1999, 103, 62-70.	1.1	140
10	Role of the Aerosol Substrate in the Heterogeneous Ozonation Reactions of Surface-Bound PAHs. Journal of Physical Chemistry A, 2007, 111, 11050-11058.	1.1	138
11	Adsorption of Atmospheric Gases at the Airâˆ'Water Interface. 2. C1âˆ'C4 Alcohols, Acids, and Acetone. Journal of Physical Chemistry A, 1999, 103, 871-876.	1.1	135
12	Atmospheric photochemistry at a fatty acidâ€"coated air-water interface. Science, 2016, 353, 699-702.	6.0	133
13	Heterogeneous ozonation kinetics of polycyclic aromatic hydrocarbons on organic films. Atmospheric Environment, 2006, 40, 3448-3459.	1.9	125
14	Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfaces. Journal of Physical Chemistry A, 2007, 111, 1277-1285.	1.1	120
15	Organics in environmental ices: sources, chemistry, and impacts. Atmospheric Chemistry and Physics, 2012, 12, 9653-9678.	1.9	110
16	Photochemical Renoxification of Nitric Acid on Real Urban Grime. Environmental Science & Technology, 2013, 47, 815-820.	4.6	109
17	Spectroscopic Probes of the Quasi-Liquid Layer on Ice. Journal of Physical Chemistry A, 2007, 111, 11006-11012.	1.1	101
18	Atmospheric Photochemistry via Vibrational Overtone Absorption. Chemical Reviews, 2003, 103, 4717-4730.	23.0	97

#	ARTICLE	IF	CITATIONS
19	Photosensitized Production of Atmospherically Reactive Organic Compounds at the Air/Aqueous Interface. Journal of the American Chemical Society, 2015, 137, 8348-8351.	6.6	97
20	Atmospheric radical production by excitation of vibrational overtonesviaabsorption of visible light. Geophysical Research Letters, 1997, 24, 2651-2654.	1.5	94
21	Twilight observations suggest unknown sources of HOx. Geophysical Research Letters, 1999, 26, 1373-1376.	1.5	85
22	Ultraviolet absorption spectroscopy of dissociating molecules: Effects of cluster formation on the photodissociation of CH3I. Journal of Chemical Physics, 1987, 87, 2522-2530.	1.2	84
23	Evidence for Adsorbed SO2 at the Aqueous-Air Interface. The Journal of Physical Chemistry, 1995, 99, 9313-9315.	2.9	83
24	Vibrational excitation of OH(X2Î) produced in the reaction of O(1D) with H2. Chemical Physics Letters, 1983, 95, 183-188.	1.2	82
25	Direct Experimental Evidence for a Heterogeneous Reaction of Ozone with Bromide at the Airâˆ'Aqueous Interface. Journal of Physical Chemistry A, 2007, 111, 9809-9814.	1.1	80
26	Processing of unsaturated organic acid films and aerosols by ozone. Atmospheric Environment, 2003, 37, 2207-2219.	1.9	78
27	Photoenhanced Reaction of Ozone with Chlorophyll at the Seawater Surface. Journal of Physical Chemistry C, 2009, 113, 2071-2077.	1.5	73
28	Photoenhanced Uptake of NO₂ by Pyrene Solid Films. Journal of Physical Chemistry A, 2008, 112, 9503-9508.	1.1	71
29	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. CheM, 2020, 6, 3203-3218.	5.8	70
30	Organic Aerosols and the Origin of Life: An Hypothesis. Origins of Life and Evolution of Biospheres, 2004, 34, 57-67.	0.8	69
31	Ab Initio Study of SO2+ H2O. Journal of Physical Chemistry A, 1998, 102, 4638-4642.	1.1	68
32	Can We Model Snow Photochemistry? Problems with the Current Approaches. Journal of Physical Chemistry A, 2013, 117, 4733-4749.	1.1	68
33	Photofragmentation dynamics of acetone of 193 nm: State distributions of the CH3and CO fragments by timeâ€•and wavelengthâ€resolved infrared emission. Journal of Chemical Physics, 1986, 85, 817-824.	1.2	66
34	Enhanced uptake of water by oxidatively processed oleic acid. Atmospheric Chemistry and Physics, 2004, 4, 2083-2089.	1.9	66
35	Sea-Surface Chemistry and Its Impact on the Marine Boundary Layer. Environmental Science & Technology, 2012, 46, 10385-10389.	4.6	66
36	Assessing the organic composition of urban surface films using nuclear magnetic resonance spectroscopy. Chemosphere, 2006, 63, 142-152.	4.2	65

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37	Benzene Photolysis on Ice: Implications for the Fate of Organic Contaminants in the Winter. Environmental Science & Technology, 2010, 44, 3819-3824.	4.6	65
38	Mechanistic Insights on the Photosensitized Chemistry of a Fatty Acid at the Air/Water Interface. Environmental Science & Technology, 2016, 50, 11041-11048.	4.6	64
39	Time-resolved FTIR photofragment emission spectroscopy: HCl vibrational distributions from the 193 nm photolysis of chloroethylenes. Chemical Physics Letters, 1986, 132, 240-246.	1.2	63
40	Absolute Intensities of Nitric Acid Overtones. Journal of Physical Chemistry A, 1998, 102, 5171-5174.	1.1	63
41	Organosulfate Formation through the Heterogeneous Reaction of Sulfur Dioxide with Unsaturated Fatty Acids and Longâ€Chain Alkenes. Angewandte Chemie - International Edition, 2016, 55, 10336-10339.	7.2	63
42	Enhanced Uptake of PAHs by Organic-Coated Aqueous Surfaces. Journal of Physical Chemistry A, 2003, 107, 2264-2269.	1.1	61
43	Molecular polarizability as a single-parameter predictor of vapour pressures and octanolâ€“air partitioning coefficients of non-polar compounds: a priori approach and results. Atmospheric Environment, 2004, 38, 213-225.	1.9	60
44	Photochemical Loss of Nitric Acid on Organic Films:Â a Possible Recycling Mechanism for NOx. Environmental Science & Technology, 2007, 41, 3898-3903.	4.6	60
45	Reactive Uptake of Ozone by Chlorophyll at Aqueous Surfaces. Environmental Science & Technology, 2008, 42, 1138-1143.	4.6	60
46	A reinvestigation of the electronic spectra of ozone: condensed-phase effects. The Journal of Physical Chemistry, 1989, 93, 506-508.	2.9	58
47	Uptake and reaction of atmospheric organic vapours on organic films. Faraday Discussions, 2005, 130, 227.	1.6	58
48	Modeâ€specific chemical branching ratios in the photodissociation of OClO. Journal of Chemical Physics, 1993, 99, 3129-3132.	1.2	57
49	Two primary product channels in OClO photodissociation near 360 nm. Journal of Chemical Physics, 1994, 101, 9565-9572.	1.2	57
50	Resonance-enhanced multiphoton ionization (REMPI) measurement of atomic chlorine(2P3/2 and 2P1/2) produced in the photolysis of chlorine dioxide (OClO) from 355 to 370 nm. The Journal of Physical Chemistry, 1991, 95, 2113-2115.	2.9	56
51	Assessing the importance of heterogeneous reactions of polycyclic aromatic hydrocarbons in the urban atmosphere using the Multimedia Urban Model. Atmospheric Environment, 2007, 41, 37-50.	1.9	56
52	The (n0-3s) Rydberg state of acetone: absorption spectroscopy of jet-cooled acetone and acetone-d6. The Journal of Physical Chemistry, 1988, 92, 2762-2766.	2.9	54
53	Ab initio investigation of water complexes of some atmospherically important acids: HONO, HNO3 and HO2NO2. Physical Chemistry Chemical Physics, 2001, 3, 1999-2006.	1.3	54
54	Photooxidation of Halides by Chlorophyll at the Airâ˘’Salt Water Interface. Journal of Physical Chemistry A, 2009, 113, 8591-8595.	1.1	54

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55	Photochemical chlorine and bromine activation from artificial saline snow. Atmospheric Chemistry and Physics, 2013, 13, 9789-9800.	1.9	54
56	Anthracene Photolysis in Aqueous Solution and Ice: Photon Flux Dependence and Comparison of Kinetics in Bulk Ice and at the Airâˆ'Ice Interface. Environmental Science & Technology, 2010, 44, 1302-1306.	4.6	52
57	Detailed Study of HOCl + HCl â†' Cl2+ H2O in Sulfuric Acid. Journal of Physical Chemistry A, 1997, 101, 4717-4725.	1.1	50
58	Spectroscopic probe of intramolecular predissociation dynamics in clusters. The Journal of Physical Chemistry, 1989, 93, 513-520.	2.9	48
59	Uptake of water by organic films: the dependence on the film oxidation state. Atmospheric Environment, 2003, 37, 3529-3537.	1.9	48
60	A twoâ€laser pulseâ€andâ€probe study of Tâ€R, V energy transfer collisions of H+NO at 0.95 and 2.2 eV. Journal of Chemical Physics, 1985, 83, 660-667.	1.2	46
61	Heterogeneous Photooxidation of Fluorotelomer Alcohols: A New Source of Aerosol-Phase Perfluorinated Carboxylic Acids. Environmental Science & Technology, 2013, 47, 6358-6367.	4.6	46
62	Cluster-induced potential shifts as a probe for dissociation dynamics in the (n0-3s) Rydberg state of acetone. The Journal of Physical Chemistry, 1988, 92, 2766-2769.	2.9	45
63	Hydroxyl radical reactivity at the air-ice interface. Atmospheric Chemistry and Physics, 2010, 10, 843-854.	1.9	45
64	Formation of reactive nitrogen oxides from urban grime photochemistry. Atmospheric Chemistry and Physics, 2016, 16, 6355-6363.	1.9	45
65	Photochemistry of alkyl halide dimers. Journal of Chemical Physics, 1993, 98, 4700-4706.	1.2	43
66	Laser induced fluorescence of pyrene at an organic coated airâ€“water interface. Physical Chemistry Chemical Physics, 2002, 4, 4186-4191.	1.3	43
67	Adsorption of Atmospheric Gases at the Airâˆ'Water Interface. 4:Â The Influence of Salts. Journal of Physical Chemistry A, 2002, 106, 982-987.	1.1	43
68	Overtone-Induced Decarboxylation:Â A Potential Sink for Atmospheric Diacids. Journal of Physical Chemistry A, 2005, 109, 597-602.	1.1	43
69	Energy distributions in the HF and CO products of the reaction of F atoms with HCO. Journal of Chemical Physics, 1985, 82, 1873-1882.	1.2	42
70	Self-Association of Naphthalene at the Airâˆ'Ice Interface. Journal of Physical Chemistry A, 2009, 113, 7353-7359.	1.1	42
71	Cavitation-induced polymerization of nitrobenzene. The Journal of Physical Chemistry, 1979, 83, 3130-3135.	2.9	41
72	Adsorption of Atmospheric Gases at the Airâˆ'Water Interface. 3:Â Methylamines. Journal of Physical Chemistry A, 2000, 104, 10789-10793.	1.1	40

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73	A Pinch of Salt Is All It Takes: Chemistry at the Frozen Water Surface. Accounts of Chemical Research, 2014, 47, 1587-1594.	7.6	38
74	Ultraviolet absorption determination of intramolecular predissociation dynamics in methyl iodide dimers ((CH3I)2 and (CD3I)2). The Journal of Physical Chemistry, 1988, 92, 1204-1208.	2.9	37
75	Glancing-angle Raman study of nitrate and nitric acid at the airâ€"aqueous interface. Chemical Physics Letters, 2012, 522, 1-10.	1.2	37
76	Fatty Acid Surfactant Photochemistry Results in New Particle Formation. Scientific Reports, 2017, 7, 12693.	1.6	37
77	Clusterâ€induced photochemistry of CH3I at 248 nm. Journal of Chemical Physics, 1992, 97, 189-196.	1.2	36
78	Ab Initio and Density Functional Study of Complexes between the Methylamines and Water. Journal of Physical Chemistry A, 2002, 106, 3185-3190.	1.1	36
79	Heterogeneous ozonation kinetics of phenanthrene at the airâ€"ice interface. Environmental Research Letters, 2008, 3, 045006.	2.2	36
80	Red-light initiated atmospheric reactions of vibrationally excited molecules. Physical Chemistry Chemical Physics, 2014, 16, 827-836.	1.3	36
81	Spontaneous fission of atmospheric aerosol particles. Physical Chemistry Chemical Physics, 2001, 3, 5270-5273.	1.3	35
82	Where does acid hydrolysis take place?. Physical Chemistry Chemical Physics, 2009, 11, 857-863.	1.3	35
83	Photoenhanced ozone loss on solid pyrene films. Physical Chemistry Chemical Physics, 2009, 11, 7876.	1.3	35
84	Different photolysis kinetics at the surface of frozen freshwater vs. frozen salt solutions. Atmospheric Chemistry and Physics, 2010, 10, 10917-10922.	1.9	35
85	Influence of water surface properties on the heterogeneous reaction between O3(g) and I(aq)âˆ'. Atmospheric Environment, 2011, 45, 6116-6120.	1.9	35
86	Chemistry of Urban Grime: Inorganic Ion Composition of Grime vs Particles in Leipzig, Germany. Environmental Science & Technology, 2015, 49, 12688-12696.	4.6	35
87	Indoor Lighting Releases Gas Phase Nitrogen Oxides from Indoor Painted Surfaces. Environmental Science and Technology Letters, 2019, 6, 92-97.	3.9	35
88	Exclusion of Nitrate to the Airâ€"Ice Interface During Freezing. Journal of Physical Chemistry Letters, 2011, 2, 1967-1971.	2.1	33
89	Dynamics of CO formation in the reaction O(3P)+C2H3. Chemical Physics, 1995, 193, 37-45.	0.9	30
90	Glancing-angle Raman spectroscopic probe for reaction kinetics at water surfaces. Physical Chemistry Chemical Physics, 2010, 12, 2648.	1.3	30

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91	Heterogeneous Photochemistry of Oxalic Acid on Mauritanian Sand and Icelandic Volcanic Ash. Environmental Science & Technology, 2012, 46, 8756-8763.	4.6	30
92	Detailed energy partitioning in the decomposition of chemically energized C2H3F. Chemical Physics, 1982, 68, 95-107.	0.9	29
93	Energy partitioning in atomâ€“radical reactions: The reaction of F atoms with NH2. Journal of Chemical Physics, 1985, 82, 4524-4536.	1.2	29
94	Surface crossings and predissociation dynamics of methyl iodide Rydberg states. Journal of Chemical Physics, 1988, 88, 7410-7417.	1.2	29
95	Suppression of aqueous surface hydrolysis by monolayers of short chain organic amphiphiles. Physical Chemistry Chemical Physics, 2007, 9, 1362-9.	1.3	29
96	Overtone-Induced Degradation of Perfluorinated Alcohols in the Atmosphere. Journal of Physical Chemistry A, 2007, 111, 13466-13471.	1.1	29
97	Spectroscopic studies of the heterogeneous reaction between O₃(g) and halides at the surface of frozen salt solutions. Journal of Geophysical Research, 2010, 115, .	3.3	29
98	Water uptake by indoor surface films. Scientific Reports, 2019, 9, 11089.	1.6	28
99	Laser-induced fluorescence study of iodine from methyl iodide photodissociation. The Journal of Physical Chemistry, 1992, 96, 19-21.	2.9	27
100	Photooxidation of Atmospheric Alcohols on Laboratory Proxies for Mineral Dust. Environmental Science & Technology, 2011, 45, 10004-10012.	4.6	26
101	Laboratory Study of pH at the Airâ€“Ice Interface. Journal of Physical Chemistry C, 2012, 116, 10171-10180.	1.5	26
102	Laser photolysis, infrared fluorescence determination of methyl(.nu.3) vibrational deactivation by helium, argon, nitrogen, carbon monoxide, sulfur hexafluoride, and acetone. The Journal of Physical Chemistry, 1987, 91, 3128-3131.	2.9	25
103	MRDâ€CI potential surfaces using balanced basis sets. II. O+H2 and F+H2. Journal of Chemical Physics, 1984, 81, 397-406.	1.2	23
104	OH production from the reaction of vibrationally excited H2in the mesosphere. Geophysical Research Letters, 2001, 28, 2157-2160.	1.5	23
105	Red sky at night: Long-wavelength photochemistry in the atmosphere. Environmental Science & Technology, 2010, 44, 5321-5326.	4.6	23
106	Water Evaporation from Acoustically Levitated Aqueous Solution Droplets. Journal of Physical Chemistry A, 2017, 121, 7197-7204.	1.1	23
107	OH overtone spectra and intensities of pernitric acid. Chemical Physics Letters, 1999, 311, 131-138.	1.2	22
108	The asymmetry of organic aerosol fission and prebiotic chemistry. Origins of Life and Evolution of Biospheres, 2002, 32, 237-245.	0.8	22

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109	Oneâ€•and twoâ€photonâ€resonant multiphoton ionization spectra of CS2 from 45â€‰500 to 48â€‰100 cmâˆ'1. Journal of Chemical Physics, 1989, 91, 7455-7460.	1.2	21
110	Does molecular HNO3adsorb onto sulfuric acid droplet surfaces?. Geophysical Research Letters, 1999, 26, 3625-3628.	1.5	21
111	How does deposition of gas phase species affect pH at frozen salty interfaces?. Atmospheric Chemistry and Physics, 2012, 12, 10065-10073.	1.9	21
112	Influence of Organic Coatings on Pyrene Ozonolysis at the Airâ€"Aqueous Interface. Journal of Physical Chemistry A, 2012, 116, 423-429.	1.1	21
113	Gas-phase hydrolysis of triplet SO2: A possible direct route to atmospheric acid formation. Scientific Reports, 2016, 6, 30000.	1.6	21
114	Seasonality of the Water-Soluble Inorganic Ion Composition and Water Uptake Behavior of Urban Grime. Environmental Science & Technology, 2019, 53, 5671-5677.	4.6	20
115	Potential energy and vibrational levels for local modes in water and acetylene. Chemical Physics, 1985, 94, 15-23.	0.9	19
116	Two-photon photochemistry of carbon disulfide: formation of sulfur (S2)(v.ltoreq.2) and carbon monosulfide(v.ltoreq.10) at 308 nm. The Journal of Physical Chemistry, 1990, 94, 8918-8921.	2.9	19
117	Product energy disposal in the nonadiabatic reaction S(1D)+CS2â†'S2 (Xâ€‰3Î£âˆ'g)+CS (Xâ€‰1Î£+). Journal of Chemical Physics, 1991, 95, 1738-1745.	1.2	19
118	Substrate effects in the photoenhanced ozonation of pyrene. Atmospheric Chemistry and Physics, 2011, 11, 1243-1253.	1.9	19
119	Organic Composition, Chemistry, and Photochemistry of Urban Film in Leipzig, Germany. ACS Earth and Space Chemistry, 2018, 2, 935-945.	1.2	19
120	Spectroscopy of the (no-3s) Rydberg state of isolated and clustered acetaldehyde. The Journal of Physical Chemistry, 1988, 92, 5514-5517.	2.9	18
121	Thermodynamics of heterogeneous binary condensation on insoluble nuclei. Journal of Geophysical Research, 1999, 104, 14283-14292.	3.3	18
122	Emerging Areas in Atmospheric Photochemistry. Topics in Current Chemistry, 2012, 339, 1-53.	4.0	18
123	Standard States and Thermochemical Kinetics in Heterogeneous Atmospheric Chemistry. Journal of Physical Chemistry A, 2012, 116, 6312-6316.	1.1	18
124	Enhanced Surface Partitioning of Nitrate Anion in Aqueous Bromide Solutions. Journal of Physical Chemistry Letters, 2013, 4, 2994-2998.	2.1	18
125	Real-Time Measurements of pH Changes in Single, Acoustically Levitated Droplets Due to Atmospheric Multiphase Chemistry. ACS Earth and Space Chemistry, 2020, 4, 854-861.	1.2	18
126	Vibrational energy partitioning in the reaction of F atoms with NH3 and ND3. Chemical Physics, 1984, 85, 47-62.	0.9	17

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127	Primary energy distribution in the products of the reaction F + HBr .fwdarw. HF(v') + Br. The Journal of Physical Chemistry, 1986, 90, 3110-3116.	2.9	17
128	Bimolecular reaction of molecular oxygen with overtone excited HOOH: Implications for recycling HO2 in the atmosphere. Physical Chemistry Chemical Physics, 2003, 5, 3183.	1.3	17
129	On geoengineering with sulphate aerosols in the tropical upper troposphere and lower stratosphere. Climatic Change, 2008, 90, 315-331.	1.7	17
130	Chemical Morphology of Frozen Mixed Nitrateâ€“Salt Solutions. Journal of Physical Chemistry A, 2017, 121, 2166-2171.	1.1	16
131	The reaction between oxygen and vinyl radicals. Journal of Chemical Physics, 1982, 77, 4777-4779.	1.2	15
132	Absolute rate coefficients for methyl radical reactions by laser photolysis/time-resolved infrared chemiluminescence: methyl-d3 + HX .fwdarw. methane-d3 + X (X = Br, I). The Journal of Physical Chemistry, 1986, 90, 936-941.	2.9	15
133	Hydrogen bonded complexes and the HF vibrational energy distributions from the reaction of F atoms with NH2 and NH3. Chemical Physics, 1987, 114, 321-329.	0.9	15
134	Thermodynamics of heterogeneous multicomponent condensation on mixed nuclei. Journal of Chemical Physics, 2000, 113, 6822-6830.	1.2	15
135	Effect of Organic Coatings on Gas-Phase Nitrogen Dioxide Production from Aqueous Nitrate Photolysis. Journal of Physical Chemistry C, 2013, 117, 22260-22267.	1.5	15
136	Prediction of Subcooled Vapor Pressures of Nonpolar Organic Compounds Using a One-Parameter QSPR. Journal of Chemical & Engineering Data, 2005, 50, 438-443.	1.0	14
137	Spectroscopic and photochemical perturbations of weak interactions on electronic surfaces of methyl iodide. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2043.	1.7	13
138	Evidence for a Four-Center Mechanism in the Photoreaction of HI Clusters. The Journal of Physical Chemistry, 1995, 99, 6763-6766.	2.9	13
139	Photodissociation of acrylonitrile at 193 nm: the CN-producing channel. Chemical Physics Letters, 1996, 249, 40-45.	1.2	13
140	Photochemical Aging of Levitated Aqueous Brown Carbon Droplets. ACS Earth and Space Chemistry, 2021, 5, 749-754.	1.2	13
141	Fourier transform UV/VIS emission spectroscopy of jet-cooled CN(B 2Î£+). Chemical Physics Letters, 1989, 157, 295-299.	1.2	12
142	A REMPI investigation of methyl iodide Rydberg state predissociation. Chemical Physics Letters, 1990, 173, 257-264.	1.2	12
143	Differences in photochemistry between seawater and freshwater for two natural organic matter samples. Environmental Sciences: Processes and Impacts, 2019, 21, 28-39.	1.7	12
144	Absorption spectroscopy of jet-cooled CS2: the linear excited state at 55741 to 60241 cmâˆ'1. Chemical Physics Letters, 1991, 184, 152-158.	1.2	10

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145	Vibrational energy disposal in the CS(1Î£+) product of the two-photon, 308 nm photodissociation of CS2. Chemical Physics Letters, 1992, 198, 341-346.	1.2	10
146	Photophysics and photochemistry of I2 (D, Dâ€²) in rare gas clusters. Chemical Physics, 1996, 211, 377-386.	0.9	10
147	Activation barrier for multicomponent droplet formation on partially soluble nuclei. Journal of Geophysical Research, 2001, 106, 14447-14463.	3.3	10
148	Nitrate Photolysis in Salty Snow. Journal of Physical Chemistry A, 2016, 120, 7902-7908.	1.1	10
149	Singletâ€“triplet surface crossings and lowâ€temperature rate enhancement for O(3P)+H2â†’OH+H. Journal of Chemical Physics, 1984, 80, 221-231.	1.2	9
150	Interfacial Photochemistry. , 2018, , 435-457.		9
151	Differences in Photosensitized Release of VOCs from Illuminated Seawater versus Freshwater Surfaces. ACS Earth and Space Chemistry, 2021, 5, 2233-2242.	1.2	9
152	Laboratory simulation of polar stratospheric clouds. Geophysical Research Letters, 1994, 21, 373-376.	1.5	8
153	Modeling the Removal of Water-Soluble Trace Gases from Indoor Air via Air Conditioner Condensate. Environmental Science & Technology, 2021, 55, 10987-10993.	4.6	8
154	Water complexes as catalysts in atmospheric reactions. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2001, 26, 473-478.	0.2	7
155	Loss of NO(g) to painted surfaces and its reâ€emission with indoor illumination. Indoor Air, 2021, 31, 566-573.	2.0	7
156	Energy partitioning in some atom/radical reactions found in atmospheric pollution systems. Canadian Journal of Chemistry, 1983, 61, 906-911.	0.6	6
157	Photooxidation of CS2in the near-ultraviolet and its atmospheric implications. Geophysical Research Letters, 1995, 22, 2609-2612.	1.5	6
158	Mechanism of Aqueous-Phase Ozonation of S(IV). Journal of Physical Chemistry A, 2010, 114, 2164-2170.	1.1	6
159	Inelastic scattering of atoms and molecules from liquid crystal surfaces. Journal of Chemical Physics, 1999, 110, 8098-8103.	1.2	4
160	Reagent and product energy distributions for the reaction Fâ€‚+â€‚OH (Î½)â€‚â†’â€‚HF(Î½â€²)â€‚+â€‚O. Canadian Journal of Chemistry, 1983, 61, 912-915.	0.6	3
161	Surface-Mediated Disorder in Aligned Liquid Crystal Films Caused by Collisions with He. Physical Review Letters, 1996, 77, 310-313.	2.9	3
162	Reply to comments on "Rydberg state dynamics of methyl iodide dimers and clusters revisited". The Journal of Physical Chemistry, 1990, 94, 7740-7741.	2.9	2

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163	Scattering of gases from aligned liquid crystals: Collisionâ€induced loss of order at the gasâ€“liquid interface. Journal of Chemical Physics, 1996, 105, 9574-9579.	1.2	2
164	Introduction to the Focus Issue on Marine Boundary Layer: Ocean Atmosphere Interactions Processes. Environmental Science & Technology, 2012, 46, 10383-10384.	4.6	2
165	Organosulfate Formation through the Heterogeneous Reaction of Sulfur Dioxide with Unsaturated Fatty Acids and Longâ€Chain Alkenes. Angewandte Chemie, 2016, 128, 10492-10495.	1.6	2
166	Chemical Morphology and Reactivity at Environmental Interfaces. ACS Symposium Series, 2018, , 193-207.	0.5	2
167	Chemical Morphology Controls Reactivity of OH Radicals at the Airâ€“Ice Interface. Journal of Physical Chemistry A, 2021, 125, 8925-8932.	1.1	2
168	Relating natural organic matter conformation, metal complexation, and photophysics. Canadian Journal of Chemistry, 2021, 99, 787-794.	0.6	2
169	Enhancement of HOX at high solar zenith angles by overtone-induced dissociation of HNO3 and HNO4. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2000, 25, 223-227.	0.2	1
170	Reply to â€œComment on â€˜Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfacesâ€™ and on â€˜Nonchromophoric Organic Matter Suppresses Polycyclic Aromatic Hydrocarbon Photolysis in Ice and at Ice Surfacesâ€™â€. Journal of Physical Chemistry A, 2015, 119, 10764-10765.	1.1	1
171	Fluorescence Quenching of Chlorophyll by Sea Water Components. ACS Earth and Space Chemistry, 2020, 4, 2378-2383.	1.2	1
172	Some speculations on the role of excited electronic states in nitrogen-oxygen atmospheric chemistry. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2000, 25, 183-188.	0.2	0
173	Tribute to Veronica Vaida. Journal of Physical Chemistry A, 2018, 122, 1157-1158.	1.1	0
174	Itâ€™s Different at the Top: Airâ€“Ice Interface Chemistry in the Cryosphere. , 2021, , 259-290.		0