

# Timothy J Wallington

## List of Publications by Year in descending order

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343  
papers

20,300  
citations

9786

73  
h-index

17105

122  
g-index

365  
all docs

365  
docs citations

365  
times ranked

12773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation of Fluorotelomer Alcohols: A Likely Atmospheric Source of Perfluorinated Carboxylic Acids. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3316-3321.	10.0	818
2	Evaluating Rare Earth Element Availability: A Case with Revolutionary Demand from Clean Technologies. <i>Environmental Science &amp; Technology</i> , 2012, 46, 3406-3414.	10.0	738
3	Global Lithium Availability. <i>Journal of Industrial Ecology</i> , 2011, 15, 760-775.	5.5	435
4	On-road vehicle emissions and their control in China: A review and outlook. <i>Science of the Total Environment</i> , 2017, 574, 332-349.	8.0	424
5	UV absorption cross sections and reaction kinetics and mechanisms for peroxy radicals in the gas phase. <i>Chemical Reviews</i> , 1992, 92, 667-710.	47.7	416
6	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. <i>Reviews of Geophysics</i> , 2013, 51, 300-378.	23.0	390
7	Atmospheric Chemistry of Oxygenated Volatile Organic Compounds: Impacts on Air Quality and Climate. <i>Chemical Reviews</i> , 2015, 115, 3984-4014.	47.7	374
8	Atmospheric chemistry of small organic peroxy radicals. <i>Journal of Geophysical Research</i> , 2001, 106, 12157-12182.	3.3	326
9	The Atmospheric Chemistry of Alkoxy Radicals. <i>Chemical Reviews</i> , 2003, 103, 4657-4690.	47.7	320
10	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V " heterogeneous reactions on solid substrates. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9059-9223.	4.9	312
11	Radiative forcing of climate by hydrochlorofluorocarbons and hydrofluorocarbons. <i>Journal of Geophysical Research</i> , 1995, 100, 23227.	3.3	308
12	Atmospheric Chemistry of Perfluoroalkanesulfonamides: Kinetic and Product Studies of the OH Radical and Cl Atom Initiated Oxidation of N-Ethyl Perfluorobutanesulfonamide. <i>Environmental Science &amp; Technology</i> , 2006, 40, 864-872.	10.0	291
13	Atmospheric Chemistry of N-methyl Perfluorobutane Sulfonamidoethanol, C <sub>4</sub> F <sub>9</sub> SO <sub>2</sub> N(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>2</sub> OH: Kinetics and Mechanism of Reaction with OH. <i>Environmental Science &amp; Technology</i> , 2006, 40, 1862-1868.	10.0	283
14	Formation of C <sub>7</sub> F <sub>15</sub> COOH (PFOA) and Other Perfluorocarboxylic Acids during the Atmospheric Oxidation of 8:2 Fluorotelomer Alcohol. <i>Environmental Science &amp; Technology</i> , 2006, 40, 924-930.	10.0	258
15	Atmospheric chemistry of CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> : Kinetics and mechanisms of gas-phase reactions with Cl atoms, OH radicals, and O <sub>3</sub> . <i>Chemical Physics Letters</i> , 2007, 439, 18-22.	2.6	223
16	Atmospheric Lifetime of Fluorotelomer Alcohols. <i>Environmental Science &amp; Technology</i> , 2003, 37, 3816-3820.	10.0	221
17	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume IV " gas phase reactions of organic halogen species. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4141-4496.	4.9	221
18	Cradle-to-Gate Emissions from a Commercial Electric Vehicle Li-Ion Battery: A Comparative Analysis. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7715-7722.	10.0	210

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19	High octane number ethanol-gasoline blends: Quantifying the potential benefits in the United States. <i>Fuel</i> , 2012, 97, 585-594.	6.4	197
20	Global carbon intensity of crude oil production. <i>Science</i> , 2018, 361, 851-853.	12.6	196
21	Life-Cycle Energy and Greenhouse Gas Emission Benefits of Lightweighting in Automobiles: Review and Harmonization. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6089-6097.	10.0	177
22	Fourier transform infrared kinetic studies of the reaction of HONO with HNO <sub>3</sub> , NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> at 295 K. <i>Journal of Atmospheric Chemistry</i> , 1989, 9, 399-409.	3.2	172
23	Wintertime aerosol chemistry and haze evolution in an extremely polluted city of the North China Plain: significant contribution from coal and biomass combustion. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4751-4768.	4.9	172
24	Octane Numbers of Ethanol and Methanol Gasoline Blends Estimated from Molar Concentrations. <i>Energy &amp; Fuels</i> , 2010, 24, 6576-6585.	5.1	169
25	The Stratospheric Fate of CF <sub>3</sub> OH. <i>Environmental Science &amp; Technology</i> , 1994, 28, 1198-1200.	10.0	168
26	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VI - heterogeneous reactions with liquid substrates. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8045-8228.	4.9	167
27	Vapor Pressures of Alcohol Gasoline Blends. <i>Energy &amp; Fuels</i> , 2010, 24, 3647-3654.	5.1	157
28	Mechanisms of Atmospheric Oxidation of the Oxygenates. , 2011, , .		156
29	Assessing the Impact on Global Climate from General Anesthetic Gases. <i>Anesthesia and Analgesia</i> , 2012, 114, 1081-1085.	2.2	153
30	Source contributions of urban PM <sub>2.5</sub> in the Beijing-Tianjin-Hebei region: Changes between 2006 and 2013 and relative impacts of emissions and meteorology. <i>Atmospheric Environment</i> , 2015, 123, 229-239.	4.1	152
31	Inhalation anaesthetics and climate change. <i>British Journal of Anaesthesia</i> , 2010, 105, 760-766.	3.4	142
32	Role of Excited CF <sub>3</sub> CFHO Radicals in the Atmospheric Chemistry of HFC-134a. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18116-18122.	2.9	141
33	Life Cycle Assessment of Connected and Automated Vehicles: Sensing and Computing Subsystem and Vehicle Level Effects. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3249-3256.	10.0	141
34	Impact of biofuel production and other supply and demand factors on food price increases in 2008. <i>Biomass and Bioenergy</i> , 2011, 35, 1623-1632.	5.7	139
35	Automotive fuels and internal combustion engines: a chemical perspective. <i>Chemical Society Reviews</i> , 2006, 35, 335.	38.1	135
36	Investigation of the radical product channel of the CH <sub>3</sub> C(O)O <sub>2</sub> + HO <sub>2</sub> reaction in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3149.	2.8	132

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37	Organic Aerosol Formation during the Atmospheric Degradation of Toluene. <i>Environmental Science &amp; Technology</i> , 2001, 35, 1358-1366.	10.0	128
38	Gas phase reaction of Cl atoms with a series of oxygenated organic species at 295 K. <i>International Journal of Chemical Kinetics</i> , 1988, 20, 867-875.	1.6	125
39	CO <sub>2</sub> Emission Benefit of Diesel (versus Gasoline) Powered Vehicles. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3217-3223.	10.0	125
40	Atmospheric Chemistry of HFE-7100 (C <sub>4</sub> F <sub>9</sub> OCH <sub>3</sub> ): <sup>•</sup> Reaction with OH Radicals, UV Spectra and Kinetic Data for C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> <sup>•</sup> and C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> O <sub>2</sub> <sup>•</sup> Radicals, and the Atmospheric Fate of C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> O <sup>•</sup> Radicals. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8264-8274.	2.5	120
41	Kinetics and mechanisms of the reactions of chlorine atoms with ethane, propane, and n-butane. <i>International Journal of Chemical Kinetics</i> , 1997, 29, 43-55.	1.6	116
42	Role of flying cars in sustainable mobility. <i>Nature Communications</i> , 2019, 10, 1555.	12.8	116
43	A kinetic study of the reaction of chlorine atoms with CF <sub>3</sub> CHCl <sub>2</sub> , CF <sub>3</sub> CH <sub>2</sub> F, CFCI <sub>2</sub> CH <sub>3</sub> , CF <sub>2</sub> ClCH <sub>3</sub> , CHF <sub>2</sub> CH <sub>3</sub> , CH <sub>3</sub> D, CH <sub>2</sub> D <sub>2</sub> , CHD <sub>3</sub> , CD <sub>4</sub> , and CD <sub>3</sub> Cl at 295 ± 2 K. <i>Chemical Physics Letters</i> , 1992, 189, 437-442.	2.6	115
44	Photochemical ozone creation potentials for volatile organic compounds: Rationalization and estimation. <i>Atmospheric Environment</i> , 2017, 163, 128-137.	4.1	115
45	An Overview of the Effects of Ethanol-Gasoline Blends on SI Engine Performance, Fuel Efficiency, and Emissions. <i>SAE International Journal of Engines</i> , 0, 6, 470-487.	0.4	114
46	Atmospheric chemistry of hydrofluorocarbon 134a: fate of the alkoxy radical 1,2,2,2-tetrafluoroethoxy. <i>Environmental Science &amp; Technology</i> , 1992, 26, 1318-1324.	10.0	112
47	Atmospheric Chemistry of the Phenoxy Radical, C <sub>6</sub> H <sub>5</sub> O( <sup>•</sup> ): <sup>•</sup> UV Spectrum and Kinetics of Its Reaction with NO, NO <sub>2</sub> , and O <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 1998, 102, 7964-7974.	2.5	110
48	Distillation Curves for Alcohol-Gasoline Blends. <i>Energy &amp; Fuels</i> , 2010, 24, 2683-2691.	5.1	108
49	The gas phase reactions of hydroxyl radicals with a series of esters over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , 1988, 20, 177-186.	1.6	105
50	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. <i>Elementa</i> , 2019, 7, .	3.2	103
51	The gas phase reactions of hydroxyl radicals with a series of aliphatic ethers over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , 1988, 20, 41-49.	1.6	97
52	Kinetics of the Reactions of Chlorine Atoms with C <sub>2</sub> H <sub>4</sub> (k <sub>1</sub> ) and C <sub>2</sub> H <sub>2</sub> (k <sub>2</sub> ): <sup>•</sup> A Determination of <sup>•</sup> Hf, 298 <sup>•</sup> for C <sub>2</sub> H <sub>3</sub> . <i>The Journal of Physical Chemistry</i> , 1996, 100, 4111-4119.	2.9	95
53	Atmospheric Chemistry of n-C <sub>3</sub> F <sub>7</sub> OCH <sub>3</sub> : <sup>•</sup> Reaction with OH Radicals and Cl Atoms and Atmospheric Fate of n-C <sub>3</sub> F <sub>7</sub> OCH <sub>2</sub> O( <sup>•</sup> ) Radicals. <i>Environmental Science &amp; Technology</i> , 2000, 34, 2973-2978.	10.0	95
54	The gas phase reactions of hydroxyl radicals with a series of aliphatic alcohols over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , 1987, 19, 1015-1023.	1.6	90

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55	Atmospheric Chemistry of Perfluorinated Carboxylic Acids: Reaction with OH Radicals and Atmospheric Lifetimes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 615-620.	2.5	90
56	Atmospheric Chemistry of Isoflurane, Desflurane, and Sevoflurane: Kinetics and Mechanisms of Reactions with Chlorine Atoms and OH Radicals and Global Warming Potentials. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5806-5820.	2.5	89
57	Infrared absorption spectra, radiative efficiencies, and global warming potentials of perfluorocarbons: Comparison between experiment and theory. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	88
58	Atmospheric chemistry of trans-CF <sub>3</sub> CHCHF: Kinetics of the gas-phase reactions with Cl atoms, OH radicals, and O <sub>3</sub> . <i>Chemical Physics Letters</i> , 2007, 443, 199-204.	2.6	87
59	The environmental impact of CFC replacements - HFCs and HCFCs. <i>Environmental Science &amp; Technology</i> , 1994, 28, 320A-326A.	10.0	85
60	Atmospheric chemistry of short-chain haloolefins: Photochemical ozone creation potentials (POCPs), global warming potentials (GWPs), and ozone depletion potentials (ODPs). <i>Chemosphere</i> , 2015, 129, 135-141.	8.2	85
61	Vehicle criteria pollutant (PM, NO <sub>x</sub> , CO, HCs) emissions: how low should we go?. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	85
62	Rate constants for the gas phase reactions of OH with C <sub>5</sub> through C <sub>7</sub> aliphatic alcohols and ethers: Predicted and experimental values. <i>International Journal of Chemical Kinetics</i> , 1988, 20, 541-547.	1.6	84
63	Fourier transform infrared study of the self reaction of C <sub>2</sub> H <sub>5</sub> O <sub>2</sub> radicals in air at 295 K. <i>International Journal of Chemical Kinetics</i> , 1989, 21, 1077-1089.	1.6	84
64	Fourier transform infrared studies of the reaction of Cl atoms with PAN, PPN, CH <sub>3</sub> OOH, HCOOH, CH <sub>3</sub> COCH <sub>3</sub> and CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub> at 295 ± 1/2 K. <i>Journal of Atmospheric Chemistry</i> , 1990, 10, 301-313.	3.2	84
65	Pressure dependence of the reaction of chlorine atoms with ethene and acetylene in air at 295 K. <i>The Journal of Physical Chemistry</i> , 1990, 94, 3644-3648.	2.9	84
66	A kinetic study of the reaction of chlorine and fluorine atoms with HC(O)F at 295 ± 1/2 K. <i>International Journal of Chemical Kinetics</i> , 1997, 29, 619-625.	1.6	84
67	Atmospheric Oxidation Mechanism of Methyl Acetate. <i>Journal of Physical Chemistry A</i> , 2000, 104, 345-351.	2.5	83
68	China Electricity Generation Greenhouse Gas Emission Intensity in 2030: Implications for Electric Vehicles. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6063-6072.	10.0	83
69	Atmospheric chemistry of hydrofluorocarbon 134a. Fate of the alkoxy radical trifluoromethoxy. <i>Environmental Science &amp; Technology</i> , 1993, 27, 146-152.	10.0	82
70	Kinetics and Mechanisms of the Self-Reactions of CCl <sub>3</sub> O <sub>2</sub> and CHCl <sub>2</sub> O <sub>2</sub> Radicals and Their Reactions with HO <sub>2</sub> . <i>The Journal of Physical Chemistry</i> , 1996, 100, 14356-14371.	2.9	81
71	Fine-grained vehicle emission management using intelligent transportation system data. <i>Environmental Pollution</i> , 2018, 241, 1027-1037.	7.5	81
72	Atmospheric Degradation Mechanism of CF <sub>3</sub> OCH <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , 1999, 103, 4202-4208.	2.5	80

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73	Nitrous Oxide (N <sub>2</sub> O) Emissions from Vehicles. <i>Environmental Science &amp; Technology</i> , 1999, 33, 4134-4139.	10.0	79
74	The Mechanisms of Reactions Influencing Atmospheric Ozone. , 2015, , .		78
75	Atmospheric Chemistry of Fluorinated Alcohols: A Reaction with Cl Atoms and OH Radicals and Atmospheric Lifetimes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1973-1979.	2.5	77
76	Atmospheric Chemistry of Sulfuryl Fluoride: Reaction with OH Radicals, Cl Atoms and O <sub>3</sub> , Atmospheric Lifetime, IR Spectrum, and Global Warming Potential. <i>Environmental Science &amp; Technology</i> , 2009, 43, 1067-1070.	10.0	76
77	FTIR product study of the reaction of CH <sub>3</sub> OCH <sub>2</sub> O <sub>2</sub> +HO <sub>2</sub> . <i>Chemical Physics Letters</i> , 1993, 211, 41-47.	2.6	74
78	Pressure Dependence of the Reaction Cl + C <sub>3</sub> H <sub>6</sub> . <i>The Journal of Physical Chemistry</i> , 1996, 100, 9788-9793.	2.9	72
79	Fuel and Vehicle Technology Choices for Passenger Vehicles in Achieving Stringent CO <sub>2</sub> Targets: Connections between Transportation and Other Energy Sectors. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3365-3371.	10.0	72
80	Current and Future United States Light-Duty Vehicle Pathways: Cradle-to-Grave Lifecycle Greenhouse Gas Emissions and Economic Assessment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2392-2399.	10.0	72
81	Life Cycle Assessment of Vehicle Lightweighting: A Physics-Based Model To Estimate Use-Phase Fuel Consumption of Electrified Vehicles. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11226-11233.	10.0	70
82	Towards sustainable hydrocarbon fuels with biomass fast pyrolysis oil and electrocatalytic upgrading. <i>Sustainable Energy and Fuels</i> , 2017, 1, 258-266.	4.9	70
83	Atmospheric Chemistry of CF <sub>3</sub> CF=CF <sub>2</sub> : Kinetics and Mechanism of Its Reactions with OH Radicals, Cl Atoms, and Ozone. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7255-7260.	2.5	68
84	A kinetic study of the reaction of fluorine atoms with CH <sub>3</sub> F, CH <sub>3</sub> Cl, CH <sub>3</sub> Br, CF <sub>2</sub> H <sub>2</sub> , CO, CF <sub>3</sub> H, CF <sub>3</sub> CHCl <sub>2</sub> , CF <sub>3</sub> CH <sub>2</sub> F, CHF <sub>2</sub> CHF <sub>2</sub> , CF <sub>2</sub> ClCH <sub>3</sub> , CHF <sub>2</sub> CH <sub>3</sub> , and CF <sub>3</sub> CF <sub>2</sub> H at 295 ± 2 K. <i>International Journal of Chemical Kinetics</i> , 1993, 25, 651-665.	1.6	66
85	Updated radiative forcing estimates of 65 halocarbons and nonmethane hydrocarbons. <i>Journal of Geophysical Research</i> , 2001, 106, 20493-20505.	3.3	65
86	Correlation between gas-phase and solution-phase reactivities of hydroxyl radicals towards saturated organic compounds. <i>The Journal of Physical Chemistry</i> , 1988, 92, 5024-5028.	2.9	63
87	Kinetics of the gas phase reaction of hydroxyl radicals with ethane, benzene, and a series of halogenated benzenes over the temperature range 234-438 K. <i>International Journal of Chemical Kinetics</i> , 1987, 19, 725-739.	1.6	62
88	UV absorption spectra, kinetics, and mechanisms of the self reaction of CF <sub>3</sub> O <sub>2</sub> radicals in the gas phase at 295 K. <i>International Journal of Chemical Kinetics</i> , 1992, 24, 1009-1021.	1.6	62
89	Radiative forcing of climate change by CFC-11 and possible CFC replacements. <i>Journal of Geophysical Research</i> , 1997, 102, 19597-19609.	3.3	62
90	Individual trip chain distributions for passenger cars: Implications for market acceptance of battery electric vehicles and energy consumption by plug-in hybrid electric vehicles. <i>Applied Energy</i> , 2016, 180, 650-660.	10.1	62

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91	Methane Emissions from Vehicles. <i>Environmental Science &amp; Technology</i> , 2004, 38, 2005-2010.	10.0	61
92	Kinetics and Mechanism of the Acetylperoxy + HO <sub>2</sub> Reaction. <i>Journal of Physical Chemistry A</i> , 1999, 103, 365-378.	2.5	60
93	Atmospheric Chemistry of the Z and E Isomers of CF <sub>3</sub> CFCHF; Kinetics, Mechanisms, and Products of Gas-Phase Reactions with Cl Atoms, OH Radicals, and O <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , 2007, 111, 9789-9795.	2.5	60
94	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000691.	23.0	60
95	Bond Strength Trends in Halogenated Methanols: Evidence for Negative Hyperconjugation?. <i>Journal of the American Chemical Society</i> , 1995, 117, 478-485.	13.7	59
96	Hydrofluorocarbons and stratospheric ozone. <i>Faraday Discussions</i> , 1995, 100, 55.	3.2	59
97	Atmospheric Chemistry of CF <sub>3</sub> OCF <sub>2</sub> CF <sub>2</sub> H and CF <sub>3</sub> OC(CF <sub>3</sub> ) <sub>2</sub> H: Reaction with Cl Atoms and OH Radicals, Degradation Mechanism, Global Warming Potentials, and Empirical Relationship between k(OH) and k(Cl) for Organic Compounds. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3926-3934.	2.5	59
98	Acceptability, energy consumption, and costs of electric vehicle for ride-hailing drivers in Beijing. <i>Applied Energy</i> , 2019, 250, 147-160.	10.1	59
99	Well-to-wheels emissions, costs, and feedstock potentials for light-duty hydrogen fuel cell vehicles in China in 2017 and 2030. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110477.	16.4	59
100	Kinetics and Mechanism of the Gas-Phase Reaction of Cl Atoms with Benzene. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10671-10681.	2.5	58
101	Life Cycle Assessment of Vehicle Lightweighting: Novel Mathematical Methods to Estimate Use-Phase Fuel Consumption. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10209-10216.	10.0	58
102	Kinetic and mechanistic studies of the reactions of cyclopentylperoxy and cyclohexylperoxy radicals with hydroperoxy radical. <i>The Journal of Physical Chemistry</i> , 1992, 96, 4889-4894.	2.9	57
103	UV absorption spectrum, and kinetics and mechanism of the self reaction of CF <sub>3</sub> CF <sub>2</sub> O <sub>2</sub> radicals in the gas phase at 295 K. <i>International Journal of Chemical Kinetics</i> , 1993, 25, 701-717.	1.6	57
104	Atmospheric Chemistry of 4:2 Fluorotelomer Alcohol (CF <sub>3</sub> (CF <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH): Products and Mechanism of Cl Atom Initiated Oxidation. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5635-5642.	2.5	55
105	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VII "Criegee intermediates. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13497-13519.	4.9	55
106	Cavity Ring-down Study of the Visible Absorption Spectrum of the Phenyl Radical and Kinetics of Its Reactions with Cl, Br, Cl <sub>2</sub> , and O <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2002, 106, 5908-5917.	2.5	54
107	Atmospheric chemistry of CF <sub>3</sub> CFCH <sub>2</sub> : Products and mechanisms of Cl atom and OH radical initiated oxidation. <i>Chemical Physics Letters</i> , 2008, 450, 263-267.	2.6	54
108	Atmospheric Chemistry of Cyclohexane: UV Spectra of c-C <sub>6</sub> H <sub>11</sub> and (c-C <sub>6</sub> H <sub>11</sub> )O <sub>2</sub> Radicals, Kinetics of the Reactions of (c-C <sub>6</sub> H <sub>11</sub> )O <sub>2</sub> Radicals with NO and NO <sub>2</sub> , and the Fate of the Alkoxy Radical (c-C <sub>6</sub> H <sub>11</sub> )O. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2688-2695.	2.5	53



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109	Life Cycle Assessment of Vehicle Lightweighting: A Physics-Based Model of Mass-Induced Fuel Consumption. <i>Environmental Science &amp; Technology</i> , 2013, 47, 14358-14366.	10.0	53
110	Review of the Fuel Saving, Life Cycle GHG Emission, and Ownership Cost Impacts of Lightweighting Vehicles with Different Powertrains. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8215-8228.	10.0	53
111	Regional Heterogeneity in the Emissions Benefits of Electrified and Lightweighted Light-Duty Vehicles. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10560-10570.	10.0	53
112	The Environmental Impact of CFC Replacements HFCs and HCFCs. <i>Environmental Science &amp; Technology</i> , 1994, 28, 320A-326A.	10.0	52
113	Kinetics of the reaction of OH radicals with acetylene in 25-8000 torr of air at 296 K. <i>International Journal of Chemical Kinetics</i> , 2003, 35, 191-197.	1.6	52
114	Ethanol and Air Quality: Influence of Fuel Ethanol Content on Emissions and Fuel Economy of Flexible Fuel Vehicles. <i>Environmental Science &amp; Technology</i> , 2014, 48, 861-867.	10.0	52
115	Current and Future Greenhouse Gas Emissions Associated with Electricity Generation in China: Implications for Electric Vehicles. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7069-7075.	10.0	52
116	Tropospheric Ozone Assessment Report. <i>Elementa</i> , 2020, 8, .	3.2	52
117	Atmospheric Chemistry of HFE-7200 (C <sub>4</sub> F <sub>9</sub> OC <sub>2</sub> H <sub>5</sub> ): A Reaction with OH Radicals and Fate of C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> CH <sub>2</sub> O and C <sub>4</sub> F <sub>9</sub> OCHO Radicals. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4839-4845.	2.5	51
118	Reaction of CH <sub>3</sub> O <sub>2</sub> +HO <sub>2</sub> in air at 295 K: A product study. <i>Chemical Physics Letters</i> , 1990, 167, 513-518.	2.6	50
119	Emissions of CO <sub>2</sub> , CO, NO <sub>x</sub> , HC, PM, HFC-134a, N <sub>2</sub> O and CH <sub>4</sub> from the global light duty vehicle fleet. <i>Meteorologische Zeitschrift</i> , 2008, 17, 109-116.	1.0	50
120	Database for the kinetics of the gas-phase atmospheric reactions of organic compounds. <i>Earth System Science Data</i> , 2020, 12, 1203-1216.	9.9	50
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