

# Timothy J Wallington

## List of Publications by Citations

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340  
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16,326  
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67  
h-index

112  
g-index

365  
ext. papers

18,148  
ext. citations

6.1  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
340	Degradation of fluorotelomer alcohols: a likely atmospheric source of perfluorinated carboxylic acids. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3316-21	10.3	711
339	Evaluating rare earth element availability: a case with revolutionary demand from clean technologies. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 3406-14	10.3	579
338	UV absorption cross sections and reaction kinetics and mechanisms for peroxy radicals in the gas phase. <i>Chemical Reviews</i> , <b>1992</b> , 92, 667-710	68.1	395
337	Global Lithium Availability. <i>Journal of Industrial Ecology</i> , <b>2011</b> , 15, 760-775	7.2	326
336	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. <i>Reviews of Geophysics</i> , <b>2013</b> , 51, 300-378	23.1	301
335	The atmospheric chemistry of alkoxy radicals. <i>Chemical Reviews</i> , <b>2003</b> , 103, 4657-90	68.1	292
334	Atmospheric chemistry of small organic peroxy radicals. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 12157-12187	10.2	279
333	On-road vehicle emissions and their control in China: A review and outlook. <i>Science of the Total Environment</i> , <b>2017</b> , 574, 332-349	10.2	278
332	Radiative forcing of climate by hydrochlorofluorocarbons and hydrofluorocarbons. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 23227		263
331	Atmospheric chemistry of oxygenated volatile organic compounds: impacts on air quality and climate. <i>Chemical Reviews</i> , <b>2015</b> , 115, 3984-4014	68.1	258
330	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> , <b>2006</b> , 40, 864-72	10.3	251
329	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> , <b>2006</b> , 40, 1862-8	10.3	250
328	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V [heterogeneous reactions on solid substrates. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9059-9223	6.8	245
327	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> , <b>2006</b> , 40, 924-30	10.3	224
326	Atmospheric lifetime of fluorotelomer alcohols. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 3816-20	10.3	202
325	Atmospheric chemistry of CF <sub>3</sub> CFCH <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> , <b>2007</b> , 439, 18-22	2.5	196
324	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume IV [gas phase reactions of organic halogen species. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4141-4496	6.8	192

323	High octane number ethanol/gasoline blends: Quantifying the potential benefits in the United States. <i>Fuel</i> , <b>2012</b> , 97, 585-594	7.1	169
322	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> , <b>1989</b> , 9, 399-409	3.2	167
321	The Stratospheric Fate of CF <sub>3</sub> OH. <i>Environmental Science &amp; Technology</i> , <b>1994</b> , 28, 1198-200	10.3	158
320	Cradle-to-Gate Emissions from a Commercial Electric Vehicle Li-Ion Battery: A Comparative Analysis. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 7715-22	10.3	147
319	Octane Numbers of Ethanol and Methanol Gasoline Blends Estimated from Molar Concentrations. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 6576-6585	4.1	145
318	Life-cycle energy and greenhouse gas emission benefits of lightweighting in automobiles: review and harmonization. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 6089-97	10.3	139
317	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VI heterogeneous reactions with liquid substrates. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 8045-8228	6.8	127
316	Vapor Pressures of Alcohol Gasoline Blends. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 3647-3654	4.1	123
315	Role of Excited CF <sub>3</sub> CFHO Radicals in the Atmospheric Chemistry of HFC-134a. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 18116-18122		122
314	Mechanisms of Atmospheric Oxidation of the Oxygenates <b>2011</b> ,		121
313	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> , <b>2015</b> , 123, 229-239	5.3	120
312	Investigation of the radical product channel of the CH <sub>3</sub> COO <sub>2</sub> + HO <sub>2</sub> reaction in the gas phase. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 3149-62	3.6	119
311	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> , <b>2017</b> , 17, 4751-4768	6.8	117
310	Organic aerosol formation during the atmospheric degradation of toluene. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 1358-66	10.3	116
309	Automotive fuels and internal combustion engines: a chemical perspective. <i>Chemical Society Reviews</i> , <b>2006</b> , 35, 335-47	58.5	114
308	Gas phase reaction of Cl atoms with a series of oxygenated organic species at 295 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 867-875	1.4	114
307	Atmospheric Chemistry of HFE-7100 (C <sub>4</sub> F <sub>9</sub> OCH <sub>3</sub> ): Reaction with OH Radicals, UV Spectra and Kinetic Data for C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> and C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> O <sub>2</sub> Radicals, and the Atmospheric Fate of C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> O Radicals. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 8264-8274	2.8	110
306	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, CFCl <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> , <b>1992</b> , 189, 437-442	2.5	109

305	Kinetics and mechanisms of the reactions of chlorine atoms with ethane, propane, and n-butane. <i>International Journal of Chemical Kinetics</i> , <b>1997</b> , 29, 43-55	1.4	107
304	CO2 emission benefit of diesel (versus gasoline) powered vehicles. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3217-23	10.3	106
303	Impact of biofuel production and other supply and demand factors on food price increases in 2008. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 1623-1632	5.3	104
302	Global carbon intensity of crude oil production. <i>Science</i> , <b>2018</b> , 361, 851-853	33.3	100
301	Inhalation anaesthetics and climate change. <i>British Journal of Anaesthesia</i> , <b>2010</b> , 105, 760-6	5.4	99
300	Atmospheric chemistry of hydrofluorocarbon 134a: fate of the alkoxy radical 1,2,2,2-tetrafluoroethoxy. <i>Environmental Science &amp; Technology</i> , <b>1992</b> , 26, 1318-1324	10.3	99
299	The gas phase reactions of hydroxyl radicals with a series of esters over the temperature range 240-400 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 177-186	1.4	96
298	An Overview of the Effects of Ethanol-Gasoline Blends on SI Engine Performance, Fuel Efficiency, and Emissions. <i>SAE International Journal of Engines</i> , <b>2013</b> , 6, 470-487	2.4	92
297	Life Cycle Assessment of Connected and Automated Vehicles: Sensing and Computing Subsystem and Vehicle Level Effects. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 3249-3256	10.3	91
296	Atmospheric Chemistry of the Phenoxy Radical, C <sub>6</sub> H <sub>5</sub> O: 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> , <b>1998</b> , 102, 7964-7974	2.8	91
295	Distillation Curves for Alcohol-Gasoline Blends. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2683-2691	4.1	89
294	The gas phase reactions of hydroxyl radicals with a series of aliphatic ethers over the temperature range 240-400 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 41-49	1.4	89
293	Atmospheric Chemistry of n-C <sub>3</sub> F <sub>7</sub> OCH <sub>3</sub> : 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 Radicals. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2973-2978	10.3	88
292	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> ): A Determination of $\frac{k_1}{k_2}$ for C <sub>2</sub> H <sub>3</sub> . <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 4111-4119		87
291	Medical intelligence article: assessing the impact on global climate from general anesthetic gases. <i>Anesthesia and Analgesia</i> , <b>2012</b> , 114, 1081-5	3.9	85
290	The gas phase reactions of hydroxyl radicals with a series of aliphatic alcohols over the temperature range 240-400 K. <i>International Journal of Chemical Kinetics</i> , <b>1987</b> , 19, 1015-1023	1.4	84
289	The environmental impact of CFC replacements - HFCs and HCFCs. <i>Environmental Science &amp; Technology</i> , <b>1994</b> , 28, 320A-326A	10.3	82
288	Atmospheric Chemistry of Perfluorinated Carboxylic Acids: Reaction with OH Radicals and Atmospheric Lifetimes. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 615-620	2.8	79

287	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> , <b>2007</b> , 443, 199-204	2.5	78
286	A kinetic study of the reaction of chlorine and fluorine atoms with HC(O)F at 295±2 K. <i>International Journal of Chemical Kinetics</i> , <b>1997</b> , 29, 619-625	1.4	77
285	Atmospheric Degradation Mechanism of CF <sub>3</sub> OCH <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 4202-4208	2.8	77
284	Atmospheric chemistry of hydrofluorocarbon 134a. Fate of the alkoxy radical trifluoromethoxy. <i>Environmental Science &amp; Technology</i> , <b>1993</b> , 27, 146-152	10.3	77
283	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±2 K. <i>Journal of Atmospheric Chemistry</i> , <b>1990</b> , 10, 301-313	3.2	76
282	Atmospheric Oxidation Mechanism of Methyl Acetate. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 345-351	5.8	75
281	Pressure dependence of the reaction of chlorine atoms with ethene and acetylene in air at 295 K. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 3644-3648		75
280	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> , <b>1988</b> , 20, 541-547	1.4	75
279	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> , <b>1996</b> , 100, 14356-14371		73
278	Atmospheric Chemistry of Fluorinated Alcohols: Reaction with Cl Atoms and OH Radicals and Atmospheric Lifetimes. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1973-1979	2.8	73
277	Nitrous Oxide (N <sub>2</sub> O) Emissions from Vehicles. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 4134-4139	4.9	71
276	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> , <b>1989</b> , 21, 1077-1089	1.4	70
275	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> , <b>1993</b> , 211, 41-47	2.5	69
274	Infrared absorption spectra, radiative efficiencies, and global warming potentials of perfluorocarbons: Comparison between experiment and theory. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		68
273	Photochemical ozone creation potentials for volatile organic compounds: Rationalization and estimation. <i>Atmospheric Environment</i> , <b>2017</b> , 163, 128-137	5.3	66
272	Pressure Dependence of the Reaction Cl + C <sub>3</sub> H <sub>6</sub> . <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 9788-9793		66
271	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> , <b>2009</b> , 43, 1067-70	10.3	63
270	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> , <b>2000</b> , 104, 7255-7260	2.8	62

269	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> , <b>1993</b> , 25, 651-665	1.4	61
268	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> , <b>2009</b> , 43, 3365-71	10.3	60
267	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. <i>Elementa</i> , <b>2019</b> , 7,	3.6	60
266	Updated radiative forcing estimates of 65 halocarbons and nonmethane hydrocarbons. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 20493-20505		58
265	Kinetics and Mechanism of the Acetylperoxy + HO <sub>2</sub> Reaction. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 365-378	2.8	58
264	Role of flying cars in sustainable mobility. <i>Nature Communications</i> , <b>2019</b> , 10, 1555	17.4	57
263	Radiative forcing of climate change by CFC-11 and possible CFC replacements. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 19597-19609		57
262	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> , <b>2005</b> , 109, 3926-34	2.8	56
261	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> , <b>1992</b> , 24, 1009-1021	1.4	56
260	The Mechanisms of Reactions Influencing Atmospheric Ozone <b>2015</b> ,		56
259	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> , <b>2012</b> , 116, 5806-20	2.8	55
258	Atmospheric chemistry of the Z and E isomers of CF <sub>3</sub> CF=CHF; 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> , <b>2007</b> , 111, 9789-95	2.8	55
257	Atmospheric chemistry of short-chain haloolefins: photochemical ozone creation potentials (POCPs), global warming potentials (GWPs), and ozone depletion potentials (ODPs). <i>Chemosphere</i> , <b>2015</b> , 129, 135-41	8.4	54
256	Hydrofluorocarbons and stratospheric ozone. <i>Faraday Discussions</i> , <b>1995</b> , 100, 55	3.6	54
255	Kinetics of the gas phase reaction of hydroxyl radicals with ethane, benzene, and a series of halogenated benzenes over the temperature range 234-338 K. <i>International Journal of Chemical Kinetics</i> , <b>1987</b> , 19, 725-739	1.4	54
254	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> , <b>2004</b> , 108, 5635-5642	2.8	53
253	Kinetics and Mechanism of the Gas-Phase Reaction of Cl Atoms with Benzene. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 10671-10681	2.8	53
252	Bond Strength Trends in Halogenated Methanols: Evidence for Negative Hyperconjugation?. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 478-485	16.4	53

251	Kinetic and mechanistic studies of the reactions of cyclopentylperoxy and cyclohexylperoxy radicals with hydroperoxy radical. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 4889-4894		53
250	Atmospheric Chemistry of Cyclohexane: UV Spectra of $c\text{-C}_6\text{H}_{11}\dot{\text{C}}\text{H}$ and $(c\text{-C}_6\text{H}_{11})\text{O}_2\dot{\text{C}}\text{H}$ Radicals, Kinetics of the Reactions of $(c\text{-C}_6\text{H}_{11})\text{O}_2\dot{\text{C}}\text{H}$ Radicals with NO and NO <sub>2</sub> , and the Fate of the Alkoxy Radical $(c\text{-C}_6\text{H}_{11})\text{O}\dot{\text{C}}\text{H}$ . <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 2688-2695	2.8	52
249	Kinetics of the reaction of OH radicals with acetylene in 258000 torr of air at 296 K. <i>International Journal of Chemical Kinetics</i> , <b>2003</b> , 35, 191-197	1.4	50
248	Towards sustainable hydrocarbon fuels with biomass fast pyrolysis oil and electrocatalytic upgrading. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 258-266	5.8	49
247	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> , <b>2016</b> , 180, 650-660	10.7	49
246	Fine-grained vehicle emission management using intelligent transportation system data. <i>Environmental Pollution</i> , <b>2018</b> , 241, 1027-1037	9.3	49
245	Methane emissions from vehicles. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 2005-10	10.3	49
244	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> , <b>2002</b> , 106, 5908-5917	2.8	49
243	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> , <b>2018</b> , 52, 2392-2399	10.3	48
242	Atmospheric chemistry of CH <sub>3</sub> Cl: mechanistic study of the reaction of CH <sub>2</sub> ClO <sub>2</sub> radicals with HO <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>1996</b> , 251, 164-173	2.5	48
241	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> , <b>1993</b> , 25, 701-717	1.4	48
240	Atmospheric Chemistry of HFE-7200 (C <sub>4</sub> F <sub>9</sub> OC <sub>2</sub> H <sub>5</sub> ): Reaction with OH Radicals and Fate of C <sub>4</sub> F <sub>9</sub> OCH <sub>2</sub> CH <sub>2</sub> O $\dot{\text{C}}\text{H}$ and C <sub>4</sub> F <sub>9</sub> OCHO $\dot{\text{C}}\text{H}$ Radicals. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 4839-4845	2.8	47
239	Atmospheric chemistry of CF <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH: kinetics, mechanisms and products of Cl atom and OH radical initiated oxidation in the presence and absence of NO <sub>x</sub> . <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 9816-26	2.8	46
238	Correlation between gas-phase and solution-phase reactivities of hydroxyl radicals towards saturated organic compounds. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 5024-5028		46
237	Atmospheric chemistry of trifluoromethoxy radicals: reaction with water. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 7606-7611		45
236	Current and future greenhouse gas emissions associated with electricity generation in China: implications for electric vehicles. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7069-75	10.3	44
235	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> , <b>1990</b> , 167, 513-518	2.5	44
234	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> , <b>2008</b> , 450, 263-267	2.5	43

233	Stability and infrared spectra of mono-, di-, and trichloromethanol. <i>Chemical Physics Letters</i> , <b>2000</b> , 322, 97-102	2.5	43
232	Absolute UV cross sections of methyl and ethyl peroxy radicals. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 986-992		43
231	The gas phase reactions of hydroxyl radicals with a series of carboxylic acids over the temperature range 240-440 K. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 331-338	1.4	43
230	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> , <b>2016</b> , 50, 11226-11233	10.3	42
229	Energetics and Mechanism of Decomposition of CF <sub>3</sub> OH. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 6097-6103		42
228	Mechanistic study of the gas-phase reaction of CH <sub>2</sub> FO <sub>2</sub> radicals with HO <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>1994</b> , 218, 34-42	2.5	42
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