

# Timothy J Wallington

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340  
papers

16,326  
citations

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	The role of pickup truck electrification in the decarbonization of light-duty vehicles. <i>Environmental Research Letters</i> , <b>2022</b> , 17, 034031	6.2	3
339	Henry's law constants (IUPAC Recommendations 2021). <i>Pure and Applied Chemistry</i> , <b>2022</b> , 94, 71-85	2.1	3
338	Vehicle Emissions and Urban Air Quality: 60 Years of Progress. <i>Atmosphere</i> , <b>2022</b> , 13, 650	2.7	0
337	Carbon implications of marginal oils from market-derived demand shocks. <i>Nature</i> , <b>2021</b> , 599, 80-84	50.4	3
336	The case for a more precise definition of regulated PFAS. <i>Environmental Sciences: Processes and Impacts</i> , <b>2021</b> ,	4.3	2
335	Evaluated kinetic and photochemical data for atmospheric chemistry: volume VIII (gas-phase reactions of organic species with four, or more, carbon atoms (C <sub>4</sub> )). <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4797-4808	6.8	15
334	Life-Cycle Greenhouse Gas Emission Benefits of Natural Gas Vehicles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7813-7823	8.3	3
333	Life Cycle Greenhouse Gas Emissions for Last-Mile Parcel Delivery by Automated Vehicles and Robots. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	3
332	Life cycle energy and greenhouse gas emissions implications of using carbon fiber reinforced polymers in automotive components: Front subframe case study. <i>Sustainable Materials and Technologies</i> , <b>2021</b> , 28, e00263	5.3	4
331	Characterizing the Changes in Material Use due to Vehicle Electrification. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10097-10107	10.3	2
330	Understanding Ridesourcing Mobility and the Future of Electrification: A Comparative Study in Beijing. <i>Journal of Urban Technology</i> , <b>2021</b> , 28, 217-236	5.9	0
329	The coming wave of aluminum sheet scrap from vehicle recycling in the United States. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 164, 105208	11.9	9
328	Asia Pacific road transportation emissions, 1900-2050. <i>Faraday Discussions</i> , <b>2021</b> , 226, 53-73	3.6	0
327	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> , <b>2021</b> , 137, 110477	16.2	16
326	Seasonal distribution and drivers of surface fine particulate matter and organic aerosol over the Indo-Gangetic Plain. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 10881-10909	6.8	3
325	Opinion: The germicidal effect of ambient air (open-air factor) revisited. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13011-13018	6.8	3
324	Outlook for ammonia as a sustainable transportation fuel. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 4830-4843	8.4	2

323	Novel Method to Estimate the Octane Ratings of Ethanol-Gasoline Mixtures Using Base Fuel Properties. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 4632-4642	4.1	12
322	Photochemistry of 2,2-dichloroethanol: kinetics and mechanism of the reaction with Cl atoms and OH radicals. <i>Environmental Sciences: Processes and Impacts</i> , <b>2020</b> , 22, 719-727	4.3	
321	Tropospheric Ozone Assessment Report. <i>Elementa</i> , <b>2020</b> , 8,	3.6	18
320	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VII [Criegee intermediates. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 13497-13519	6.8	22
319	Database for the kinetics of the gas-phase atmospheric reactions of organic compounds. <i>Earth System Science Data</i> , <b>2020</b> , 12, 1203-1216	10.5	27
318	Life cycle water use of gasoline and electric light-duty vehicles in China. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 154, 104628	11.9	5
317	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. <i>Reviews of Geophysics</i> , <b>2020</b> , 58, e2019RG000691	23.1	13
316	A Dynamic Fleet Model of U.S Light-Duty Vehicle Lightweighting and Associated Greenhouse Gas Emissions from 2016 to 2050. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2199-2208	10.3	24
315	Acceptability, energy consumption, and costs of electric vehicle for ride-hailing drivers in Beijing. <i>Applied Energy</i> , <b>2019</b> , 250, 147-160	10.7	36
314	100 Years of Progress in Gas-Phase Atmospheric Chemistry Research. <i>Meteorological Monographs</i> , <b>2019</b> , 59, 10.1-10.52	5.7	8
313	China Electricity Generation Greenhouse Gas Emission Intensity in 2030: Implications for Electric Vehicles. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 6063-6072	10.3	34
312	Role of flying cars in sustainable mobility. <i>Nature Communications</i> , <b>2019</b> , 10, 1555	17.4	57
311	Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 230, 172-221	2.1	23
310	Economic and Climate Benefits of Electric Vehicles in China, the United States, and Germany. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 11013-11022	10.3	17
309	Regional Heterogeneity in the Emissions Benefits of Electrified and Lightweighted Light-Duty Vehicles. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10560-10570	10.3	25
308	Model Reactions Involving Ester Functional Groups during Thermo-Oxidative Degradation of Biodiesel. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2019</b> , 96, 1153-1161	1.8	2
307	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
306	REPRINT OF: Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 238, 106708	2.1	2

305	Reaction of Perfluorooctanoic Acid with Criegee Intermediates and Implications for the Atmospheric Fate of Perfluorocarboxylic Acids. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 1245-1251	10.3	12
304	Greenhouse gas emission benefits of vehicle lightweighting: Monte Carlo probabilistic analysis of the multi material lightweight vehicle glider. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2018</b> , 62, 1-10	6.4	16
303	Perspective on Mechanism Development and Structure-Activity Relationships for Gas-Phase Atmospheric Chemistry. <i>International Journal of Chemical Kinetics</i> , <b>2018</b> , 50, 435-469	1.4	34
302	Products and mechanism of the OH-initiated photo-oxidation of perfluoro ethyl vinyl ether, CFOCF[double bond, length as m-dash]CF. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 11306-11316	3.6	3
301	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
300	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
299	Fine-grained vehicle emission management using intelligent transportation system data. <i>Environmental Pollution</i> , <b>2018</b> , 241, 1027-1037	9.3	49
298	Oxidation and Polymerization of Soybean Biodiesel/Petroleum Diesel Blends. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 441-449	4.1	9
297	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aliphatic organic compounds for use in automated mechanism construction. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 9297-9328	6.8	30
296	Vehicle criteria pollutant (PM, NO <sub>x</sub> , CO, HCs) emissions: how low should we go?. <i>Npj Climate and Atmospheric Science</i> , <b>2018</b> , 1,	8	35
295	Atmospheric chemistry of (Z)-CFCH[double bond, length as m-dash]CHCl: products and mechanisms of the Cl atom, OH radical and O reactions, and role of (E)-(Z) isomerization. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 27949-27958	3.6	0
294	Atmospheric chemistry of hexa- and penta-fluorobenzene: UV photolysis and kinetics and mechanisms of the reactions of Cl atoms and OH radicals. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 28796-28809	3.6	4
293	IUPAC in the (real) clouds. <i>Chemistry International</i> , <b>2018</b> , 40, 10-13	1.6	1
292	Depolymerization of Polyester Polymers from the Oxidation of Soybean Biodiesel. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 12587-12596	4.1	8
291	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aromatic organic compounds for use in automated mechanism construction. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 9329-9349	6.8	16
290	Global carbon intensity of crude oil production. <i>Science</i> , <b>2018</b> , 361, 851-853	33.3	100
289	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
288	Life cycle assessment is the most relevant framework to evaluate biofuel greenhouse gas burdens. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2017</b> , 11, 407-416	5.3	5

287	Photochemical ozone creation potentials for volatile organic compounds: Rationalization and estimation. <i>Atmospheric Environment</i> , <b>2017</b> , 163, 128-137	5.3	66
286	Vehicle emissions of short-lived and long-lived climate forcers: trends and tradeoffs. <i>Faraday Discussions</i> , <b>2017</b> , 200, 453-474	3.6	9
285	Atmospheric Chemistry of Halogenated Organic Compounds <b>2017</b> , 305-402		2
284	Products from the Oxidation of n-Butane from 298 to 735 K Using Either Cl Atom or Thermal Initiation: Formation of Acetone and Acetic Acid-Possible Roaming Reactions?. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 8543-8560	2.8	
283	Commentary on Carbon balance effects of US biofuel production and use, by DeCicco et al. (2016). <i>Climatic Change</i> , <b>2017</b> , 144, 111-119	4.5	3
282	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> , <b>2017</b> , 51, 8215-8228	10.3	36
281	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 200, 195-228	3.6	1
280	Strategic Materials in the Automobile: A Comprehensive Assessment of Strategic and Minor Metals Use in Passenger Cars and Light Trucks. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 14436-14444	10.3	17
279	When Comparing Alternative Fuel-Vehicle Systems, Life Cycle Assessment Studies Should Consider Trends in Oil Production. <i>Journal of Industrial Ecology</i> , <b>2017</b> , 21, 244-248	7.2	13
278	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
277	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
276	Impact of Powertrain Type on Potential Life Cycle Greenhouse Gas Emission Reductions from a Real World Lightweight Glider <b>2017</b> ,		7
275	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
274	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
273	Assessing Economic Modulation of Future Critical Materials Use: The Case of Automotive-Related Platinum Group Metals. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 7687-95	10.3	22
272	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
271	Biofuels, vehicle emissions, and urban air quality. <i>Faraday Discussions</i> , <b>2016</b> , 189, 121-36	3.6	13
270	CH <sub>3</sub> Cl, CH <sub>2</sub> Cl <sub>2</sub> , CHCl <sub>3</sub> , and CCl <sub>4</sub> : Infrared spectra, radiative efficiencies, and global warming potentials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2016</b> , 174, 56-64	2.1	13

269	Oxidation Stability of Rapeseed Biodiesel/Petroleum Diesel Blends. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 344-351	11	18
268	Atmospheric chemistry of CF <sub>3</sub> CF <sub>2</sub> OCH <sub>3</sub> . <i>Chemical Physics Letters</i> , <b>2016</b> , 653, 149-154	2.5	3
267	Comment on "Environmental Fate of the Next Generation Refrigerant 2,3,3,3-Tetrafluoropropene (HFO-1234yf)?: <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 8263-4	10.3	2
266	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
265	Life Cycle Assessment of Vehicle Lightweighting: Novel Mathematical Methods to Estimate Use-Phase Fuel Consumption. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10209-16	10.3	39
264	Smoke Point Measurements of Diesel-Range Hydrocarbon/Oxygenate Blends Using a Novel Approach for Fuel Blend Selection. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 7641-7649	4.1	14
263	Atmospheric Chemistry of (CF <sub>3</sub> ) <sub>2</sub> CHOCH <sub>3</sub> , (CF <sub>3</sub> ) <sub>2</sub> CHOCHO, and CF <sub>3</sub> C(O)OCH <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 10540-52	2.8	12
262	Atmospheric chemistry of cis-CF <sub>3</sub> CH=CHCl (HCFO-1233zd(Z)): Kinetics of the gas-phase reactions with Cl atoms, OH radicals, and O <sub>3</sub> . <i>Chemical Physics Letters</i> , <b>2015</b> , 639, 289-293	2.5	13
261	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
260	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
259	The Mechanisms of Reactions Influencing Atmospheric Ozone <b>2015</b> ,		56
258	Ethanol and air quality: influence of fuel ethanol content on emissions and fuel economy of flexible fuel vehicles. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 861-7	10.3	41
257	Light-duty vehicle CO <sub>2</sub> targets consistent with 450 ppm CO <sub>2</sub> stabilization. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6453-60	10.3	19
256	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
255	N <sub>2</sub> O emissions from global transportation. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 258-263	5.3	31
254	Atmospheric chemistry of (CF <sub>3</sub> ) <sub>2</sub> CFOCH <sub>3</sub> . <i>Chemical Physics Letters</i> , <b>2014</b> , 607, 5-9	2.5	8
253	Atmospheric chemistry of benzyl alcohol: kinetics and mechanism of reaction with OH radicals. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3182-9	10.3	13
252	Comment on "Natural and anthropogenic ethanol sources in North America and potential atmospheric impacts of ethanol fuel use". <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2139-40	10.3	1

251	Sustainable Mobility, Future Fuels, and the Periodic Table. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 440-445	4.5	16
250	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
249	Life cycle assessment of vehicle lightweighting: a physics-based model of mass-induced fuel consumption. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 14358-66	10.3	41
248	Diesel vehicles and sustainable mobility in the U.S.. <i>Energy Policy</i> , <b>2013</b> , 54, 47-53	7.2	36
247	Atmospheric oxidation of polyfluorinated amides: historical source of perfluorinated carboxylic acids to the environment. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 4317-24	10.3	16
246	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
245	Nitrogen Oxides: Vehicle Emissions and Atmospheric Chemistry. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , <b>2013</b> , 101-113	0.3	0
244	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
243	Perfluorotributylamine: A novel long-lived greenhouse gas. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6010-6015	4.0	15
242	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
241	Corrigendum to "Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V [heterogeneous reactions on solid substrates" published in <i>Atmos. Chem. Phys.</i> 10, 9059-9223, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 7359-7359	6.8	7
240	Sustainable Mobility: Using a Global Energy Model to Inform Vehicle Technology Choices in a Decarbonized Economy. <i>Sustainability</i> , <b>2013</b> , 5, 1845-1862	3.6	4
239	Sustainable Mobility: Insights from a Global Energy Model <b>2013</b> , 207-229		
238	Atmospheric chemistry of CF <sub>3</sub> CH <sub>2</sub> OCH <sub>3</sub> : Reaction with chlorine atoms and OH radicals, kinetics, degradation mechanism and global warming potential. <i>Chemical Physics Letters</i> , <b>2012</b> , 524, 32-37	2.5	17
237	Atmospheric chemistry of C <sub>x</sub> F <sub>2x+1</sub> CHCH <sub>2</sub> (x=1, 2, 4, 6 and 8): Radiative efficiencies and global warming potentials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2012</b> , 233, 50-52	4.7	14
236	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
235	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
234	Relative rate study of the kinetics, mechanism, and thermodynamics of the reaction of chlorine atoms with CF <sub>3</sub> CF <sub>2</sub> CH <sub>2</sub> (HFO-1234yf) in 650-950 Torr of N <sub>2</sub> or N <sub>2</sub> /O <sub>2</sub> diluent at 296-462 K. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 5958-71	2.8	5

233	Corn ethanol production, food exports, and indirect land use change. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6379-84	10.3	36
232	Atmospheric chemistry of t-CF <sub>3</sub> CH=CHCl: products and mechanisms of the gas-phase reactions with chlorine atoms and hydroxyl radicals. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 1735-48	3.6	15
231	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
230	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
229	Atmospheric chemistry of two biodiesel model compounds: methyl propionate and ethyl acetate. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 8906-19	2.8	29
228	Global Lithium Availability. <i>Journal of Industrial Ecology</i> , <b>2011</b> , 15, 760-775	7.2	326
227	Atmospheric chemistry of C <sub>2</sub> F <sub>5</sub> CH <sub>2</sub> OCH <sub>3</sub> (HFE-365mcf). <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 2758-64	3.6	7
226	Atmospheric degradation of perfluoro-2-methyl-3-pentanone: photolysis, hydrolysis and hydration. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 8030-6	10.3	28
225	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
224	Temperature (290–300K) and pressure (500Torr) dependence of the kinetics of the reactions of chlorine atoms with propene and 1-butene. <i>Chemical Physics Letters</i> , <b>2011</b> , 501, 187-192	2.5	3
223	Atmospheric chemistry of hexafluorocyclobutene, octafluorocyclopentene, and hexafluoro-1,3-butadiene. <i>Chemical Physics Letters</i> , <b>2011</b> , 507, 19-23	2.5	17
222	Mechanisms of Atmospheric Oxidation of the Oxygenates <b>2011</b> ,		121
221	Relative integrated IR absorption in the atmospheric window is not the same as relative radiative efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, E178-9; author reply E180	11.5	4
220	Emissions omissions. <i>Science</i> , <b>2010</b> , 327, 268-9; author reply 269	33.3	
219	Inhalation anaesthetics and climate change. <i>British Journal of Anaesthesia</i> , <b>2010</b> , 105, 760-6	5.4	99
218	Atmospheric chemistry of n-C <sub>6</sub> F <sub>13</sub> CH <sub>2</sub> CHO: formation from n-C <sub>6</sub> F <sub>13</sub> CH <sub>2</sub> CH <sub>2</sub> OH, kinetics, and mechanisms of reactions with chlorine atoms and OH radicals. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 6131-7	2.8	4
217	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
216	Distillation Curves for Alcohol-Gasoline Blends. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2683-2691	4.1	89



215	Atmospheric chemistry of i-butanol. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 12462-9	2.8	17
214	Products and mechanism of the reaction of chlorine atoms with 3-pentanone in 700-950 torr of N(2)/O(2) diluent at 297-515 K. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 343-54	2.8	16
213	Vapor Pressures of Alcohol-Gasoline Blends. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 3647-3654	4.1	123
212	Kinetics and mechanism of chlorine-atom-initiated oxidation of allyl alcohol, 3-buten-2-ol, and 2-methyl-3-buten-2-ol. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 4224-31	2.8	15
211	CHF <sub>2</sub> OCHF <sub>2</sub> (HFE-134): IR spectrum and kinetics and products of the chlorine-atom-initiated oxidation. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 4963-7	2.8	8
210	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
209	Low-CO(2) electricity and hydrogen: a help or hindrance for electric and hydrogen vehicles?. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2702-8	10.3	12
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207	Cost-Effective Vehicle and Fuel Technology Choices in a Carbon-Constrained World: Insights from Global Energy Systems Modeling <b>2010</b> , 91-111		1
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205	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
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201	Kinetics and mechanisms of OH-initiated oxidation of small unsaturated alcohols. <i>International Journal of Chemical Kinetics</i> , <b>2010</b> , 42, 151-158	1.4	4
200	Implications of the Energy Independence and Security Act of 2007 for the US Light-Duty Vehicle Fleet <b>2009</b> ,		17
199	Atmospheric chemistry of perfluorobutenes (CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> and CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> ): Kinetics and mechanisms of reactions with OH radicals and chlorine atoms, IR spectra, global warming potentials, and oxidation to perfluorocarboxylic acids. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3717-3724	5.3	21
198	The radiative efficiency of HCF <sub>2</sub> OCF <sub>2</sub> O(CF <sub>2</sub> CF <sub>2</sub> O) <sub>x</sub> CF <sub>2</sub> H (H-Galden 1040x) revisited. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 4247-4249	5.3	8

197	Kinetics of the gas-phase reactions of chlorine atoms with CH <sub>2</sub> F <sub>2</sub> , CH <sub>3</sub> CCl <sub>3</sub> , and CF <sub>3</sub> CFH <sub>2</sub> over the temperature range 253–53 K. <i>International Journal of Chemical Kinetics</i> , <b>2009</b> , 41, 401-406	1.4	5
196	Kinetics of the gas phase reactions of chlorine atoms and OH radicals with CF <sub>3</sub> CBrCH <sub>2</sub> and CF <sub>3</sub> CF <sub>2</sub> CBrCH <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>2009</b> , 482, 20-23	2.5	3
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185	Atmospheric chemistry of 4:2 fluorotelomer acrylate [C <sub>4</sub> F <sub>9</sub> CH <sub>2</sub> CH <sub>2</sub> OC(O)CH=CH <sub>2</sub> ]: kinetics, mechanisms, and products of chlorine-atom- and OH-radical-initiated oxidation. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 3155-61	2.8	39
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178	Atmospheric chemistry of cyclohexanone: UV spectrum and kinetics of reaction with chlorine atoms. <i>International Journal of Chemical Kinetics</i> , <b>2008</b> , 40, 223-229	1.4	5
177	Kinetics and products of chlorine atom initiated oxidation of HCF <sub>2</sub> OCF <sub>2</sub> OCF <sub>2</sub> CF <sub>2</sub> OCF <sub>2</sub> H and HCF <sub>2</sub> O(CF <sub>2</sub> O) <sub>n</sub> -(CF <sub>2</sub> CF <sub>2</sub> O) <sub>m</sub> CF <sub>2</sub> H. <i>International Journal of Chemical Kinetics</i> , <b>2008</b> , 40, 819-825	1.4	11
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127	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
126	Atmospheric Chemistry of n-C <sub>x</sub> F <sub>2x+1</sub> CHO (x = 1, 3, 4): Reaction with Cl Atoms, OH Radicals and IR Spectra of C <sub>x</sub> F <sub>2x+1</sub> C(O)O <sub>2</sub> NO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 5189-5196	2.8	41

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22	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
21	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
20	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
19	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
18	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

17	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
16	A relative rate study of the reaction of chlorine atoms with a series of chloroalkanes at 295 K. <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 3649-3651		27
15	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> , <b>1988</b> , 20, 41-49	1.4	89
14	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> , <b>1988</b> , 20, 177-186	1.4	96
13	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
12	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
11	The UV absorption spectra and kinetics of the self reactions of CH <sub>2</sub> ClO <sub>2</sub> and CH <sub>2</sub> FO <sub>2</sub> radicals in the gas phase. <i>International Journal of Chemical Kinetics</i> , <b>1988</b> , 20, 815-826	1.4	19
10	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
9	Measurements of the gas phase UV absorption spectrum of C <sub>2</sub> H <sub>5</sub> O <sub>2</sub> radicals and of the temperature dependence of the rate constant for their self-reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1988</b> , 42, 173-185	4.7	22
8	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
7	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
6	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> , <b>1987</b> , 19, 1015-1023	1.4	84
5	Cradle-to-Grave Lifecycle Analysis of U.S. Light Duty Vehicle-Fuel Pathways: A Greenhouse Gas Emissions and Economic Assessment of Current (2015) and Future (2025-2030) Technologies		23
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