Timothy J Wallington

List of Publications by Year
in descending order

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	Atmospheric chemistry of (<i>Z</i>)- and (<i>E</i>)-1,2-dichloroethene: kinetics and mechanisms of the reactions with Cl atoms, OH radicals, and O₃. Physical Chemistry Chemical Physics, 2022, 24, 7356-7373.	2.8	1
2	The role of pickup truck electrification in the decarbonization of light-duty vehicles. Environmental Research Letters, 2022, 17, 034031.	5.2	20
3	Henryâ€™s law constants (IUPAC Recommendations 2021). Pure and Applied Chemistry, 2022, 94, 71-85.	1.9	37
4	Vehicle Emissions and Urban Air Quality: 60 Years of Progress. Atmosphere, 2022, 13, 650.	2.3	21
5	Urbanâ€“Rural Disparities in Air Quality Responses to Traffic Changes in a Megacity of China Revealed Using Machine Learning. Environmental Science and Technology Letters, 2022, 9, 592-598.	8.7	7
6	Review of electrofuel feasibilityâ€”cost and environmental impact. Progress in Energy, 2022, 4, 032010.	10.9	34
7	Variability of NO₂/NO<i>_x</i> Ratios in Multiple Microenvironments from On-Road and Near-Roadway Measurements. ACS ES&T Engineering, 2022, 2, 1599-1610.	7.6	7
8	Review of electrofuel feasibilityâ€”prospects for road, ocean, and air transport. Progress in Energy, 2022, 4, 042007.	10.9	28
9	Understanding Ridesourcing Mobility and the Future of Electrification: A Comparative Study in Beijing. Journal of Urban Technology, 2021, 28, 217-236.	4.7	2
10	The coming wave of aluminum sheet scrap from vehicle recycling in the United States. Resources, Conservation and Recycling, 2021, 164, 105208.	10.8	24
11	Asia Pacific road transportation emissions, 1900â€“2050. Faraday Discussions, 2021, 226, 53-73.	3.2	5
12	Well-to-wheels emissions, costs, and feedstock potentials for light-duty hydrogen fuel cell vehicles in China in 2017 and 2030. Renewable and Sustainable Energy Reviews, 2021, 137, 110477.	16.4	59
13	General discussion: Sources, sinks and mitigation methods; evaluation of health impacts. Faraday Discussions, 2021, 226, 607-616.	3.2	0
14	Evaluated kinetic and photochemical data for atmospheric chemistry: volume VIII â€“ gas-phase reactions of organic species with four, or more, carbon atoms (â€‰â‰¥â€‰â€‰C₄). Atmospheric Chemistry and Physics, 2021, 21, 4797-4808.	4.9	30
15	Life-Cycle Greenhouse Gas Emission Benefits of Natural Gas Vehicles. ACS Sustainable Chemistry and Engineering, 2021, 9, 7813-7823.	6.7	11
16	Life Cycle Greenhouse Gas Emissions for Last-Mile Parcel Delivery by Automated Vehicles and Robots. Environmental Science & Technology, 2021, 55, 11360-11367.	10.0	19
17	Life cycle energy and greenhouse gas emissions implications of using carbon fiber reinforced polymers in automotive components: Front subframe case study. Sustainable Materials and Technologies, 2021, 28, e00263.	3.3	12
18	Characterizing the Changes in Material Use due to Vehicle Electrification. Environmental Science & Technology, 2021, 55, 10097-10107.	10.0	12

#	Article	IF	Citations
19	Seasonal distribution and drivers of surface fine particulate matter and organic aerosol over the Indo-Gangetic Plain. Atmospheric Chemistry and Physics, 2021, 21, 10881-10909.	4.9	15
20	Opinion: The germicidal effect of ambient air (open-air factor) revisited. Atmospheric Chemistry and Physics, 2021, 21, 13011-13018.	4.9	11
21	Outlook for ammonia as a sustainable transportation fuel. Sustainable Energy and Fuels, 2021, 5, 4830-4841.	4.9	36
22	Carbon implications of marginal oils from market-derived demand shocks. Nature, 2021, 599, 80-84.	27.8	15
23	The case for a more precise definition of regulated PFAS. Environmental Sciences: Processes and Impacts, 2021, 23, 1834-1838.	3.5	11
24	Life cycle water use of gasoline and electric light-duty vehicles in China. Resources, Conservation and Recycling, 2020, 154, 104628.	10.8	10
25	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. Reviews of Geophysics, 2020, 58, e2019RG000691.	23.0	60
26	Novel Method to Estimate the Octane Ratings of Ethanolâ€"Gasoline Mixtures Using Base Fuel Properties. Energy & Fuels, 2020, 34, 4632-4642.	5.1	15
27	Photochemistry of 2,2-dichloroethanol: kinetics and mechanism of the reaction with Cl atoms and OH radicals. Environmental Sciences: Processes and Impacts, 2020, 22, 719-727.	3.5	0
28	Tropospheric Ozone Assessment Report. Elementa, 2020, 8, .	3.2	52
29	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VII â€" Criegee intermediates. Atmospheric Chemistry and Physics, 2020, 20, 13497-13519.	4.9	55
30	Database for the kinetics of the gas-phase atmospheric reactions of organic compounds. Earth System Science Data, 2020, 12, 1203-1216.	9.9	50
31	Economic and Climate Benefits of Electric Vehicles in China, the United States, and Germany. Environmental Science & Technology, 2019, 53, 11013-11022.	10.0	38
32	Regional Heterogeneity in the Emissions Benefits of Electrified and Lightweighted Light-Duty Vehicles. Environmental Science & Technology, 2019, 53, 10560-10570.	10.0	53
33	Model Reactions Involving Ester Functional Groups during Thermoâ€Oxidative Degradation of Biodiesel. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 1153-1161.	1.9	4
34	A Dynamic Fleet Model of U.S Light-Duty Vehicle Lightweighting and Associated Greenhouse Gas Emissions from 2016 to 2050. Environmental Science & Technology, 2019, 53, 2199-2208.	10.0	48
35	Acceptability, energy consumption, and costs of electric vehicle for ride-hailing drivers in Beijing. Applied Energy, 2019, 250, 147-160.	10.1	59
36	100 Years of Progress in Gas-Phase Atmospheric Chemistry Research. Meteorological Monographs, 2019, 59, 10.1-10.52.	5.0	11

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37	China Electricity Generation Greenhouse Gas Emission Intensity in 2030: Implications for Electric Vehicles. Environmental Science & Technology, 2019, 53, 6063-6072.	10.0	83
38	Role of flying cars in sustainable mobility. Nature Communications, 2019, 10, 1555.	12.8	116
39	Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 172-221.	2.3	41
40	REPRINT OF: Infrared absorption cross-sections in HITRAN2016 and beyond: Expansion for climate, environment, and atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106708.	2.3	3
41	Reaction of Perfluorooctanoic Acid with Criegee Intermediates and Implications for the Atmospheric Fate of Perfluorocarboxylic Acids. Environmental Science & Technology, 2019, 53, 1245-1251.	10.0	21
42	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	3.2	103
43	Greenhouse gas emission benefits of vehicle lightweighting: Monte Carlo probabalistic analysis of the multi material lightweight vehicle glider. Transportation Research, Part D: Transport and Environment, 2018, 62, 1-10.	6.8	23
44	Perspective on Mechanism Development and Structureâ€Activity Relationships for Gasâ€Phase Atmospheric Chemistry. International Journal of Chemical Kinetics, 2018, 50, 435-469.	1.6	45
45	Products and mechanism of the OH-initiated photo-oxidation of perfluoro ethyl vinyl ether, C₂F₅OCFî€CF₂. Physical Chemistry Chemical Physics, 2018, 20, 11306-11316.	2.8	5
46	Life Cycle Assessment of Connected and Automated Vehicles: Sensing and Computing Subsystem and Vehicle Level Effects. Environmental Science & Technology, 2018, 52, 3249-3256.	10.0	141
47	Current and Future United States Light-Duty Vehicle Pathways: Cradle-to-Grave Lifecycle Greenhouse Gas Emissions and Economic Assessment. Environmental Science & Technology, 2018, 52, 2392-2399.	10.0	72
48	Oxidation and Polymerization of Soybean Biodiesel/Petroleum Diesel Blends. Energy & Fuels, 2018, 32, 441-449.	5.1	12
49	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aliphatic organic compounds for use in automated mechanism construction. Atmospheric Chemistry and Physics, 2018, 18, 9297-9328.	4.9	48
50	Vehicle criteria pollutant (PM, NOx, CO, HCs) emissions: how low should we go?. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	85
51	Atmospheric chemistry of (Z)-CF3CHî€CHCl: products and mechanisms of the Cl atom, OH radical and O3 reactions, and role of (E)â€"(Z) isomerization. Physical Chemistry Chemical Physics, 2018, 20, 27949-27958.	2.8	4
52	Atmospheric chemistry of hexa- and penta-fluorobenzene: UV photolysis and kinetics and mechanisms of the reactions of Cl atoms and OH radicals. Physical Chemistry Chemical Physics, 2018, 20, 28796-28809.	2.8	6
53	IUPAC in the (real) clouds. Chemistry International, 2018, 40, 10-13.	0.3	1
54	Depolymerization of Polyester Polymers from the Oxidation of Soybean Biodiesel. Energy & Fuels, 2018, 32, 12587-12596.	5.1	10

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55	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aromatic organic compounds for use in automated mechanism construction. Atmospheric Chemistry and Physics, 2018, 18, 9329-9349.	4.9	28
56	Global carbon intensity of crude oil production. Science, 2018, 361, 851-853.	12.6	196
57	Fine-grained vehicle emission management using intelligent transportation system data. Environmental Pollution, 2018, 241, 1027-1037.	7.5	81
58	Towards sustainable hydrocarbon fuels with biomass fast pyrolysis oil and electrocatalytic upgrading. Sustainable Energy and Fuels, 2017, 1, 258-266.	4.9	70
59	Life cycle assessment is the most relevant framework to evaluate biofuel greenhouse gas burdens. Biofuels, Bioproducts and Biorefining, 2017, 11, 407-416.	3.7	5
60	Photochemical ozone creation potentials for volatile organic compounds: Rationalization and estimation. Atmospheric Environment, 2017, 163, 128-137.	4.1	115
61	Vehicle emissions of short-lived and long-lived climate forcers: trends and tradeoffs. Faraday Discussions, 2017, 200, 453-474.	3.2	13
62	Atmospheric Chemistry of Halogenated Organic Compounds. , 2017, , 305-402.		5
63	Products from the Oxidation of n-Butane from 298 to 735 K Using Either Cl Atom or Thermal Initiation: Formation of Acetone and Acetic Acidâ€"Possible Roaming Reactions?. Journal of Physical Chemistry A, 2017, 121, 8543-8560.	2.5	0
64	Commentary on â€œcarbon balance effects of US biofuel production and use,â€•by DeCicco et al. (2016). Climatic Change, 2017, 144, 111-119.	3.6	5
65	Review of the Fuel Saving, Life Cycle GHG Emission, and Ownership Cost Impacts of Lightweighting Vehicles with Different Powertrains. Environmental Science & Technology, 2017, 51, 8215-8228.	10.0	53
66	Atmospheric chemistry and the biosphere: general discussion. Faraday Discussions, 2017, 200, 195-228.	3.2	1
67	The air we breathe: Past, present, and future: general discussion. Faraday Discussions, 2017, 200, 501-527.	3.2	1
68	New tools for atmospheric chemistry: general discussion. Faraday Discussions, 2017, 200, 663-691.	3.2	0
69	Strategic Materials in the Automobile: A Comprehensive Assessment of Strategic and Minor Metals Use in Passenger Cars and Light Trucks. Environmental Science & Technology, 2017, 51, 14436-14444.	10.0	28
70	When Comparing Alternative Fuelâ€Vehicle Systems, Life Cycle Assessment Studies Should Consider Trends in Oil Production. Journal of Industrial Ecology, 2017, 21, 244-248.	5.5	15
71	On-road vehicle emissions and their control in China: A review and outlook. Science of the Total Environment, 2017, 574, 332-349.	8.0	424
72	Wintertime aerosol chemistry and haze evolution in an extremely polluted city of the North China Plain: significant contribution fromÂcoal and biomass combustion. Atmospheric Chemistry and Physics, 2017, 17, 4751-4768.	4.9	172

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73	Impact of Powertrain Type on Potential Life Cycle Greenhouse Gas Emission Reductions from a Real World Lightweight Glider. , 2017, , .		8
74	Atmospheric chemistry of CF3CF2OCH3. Chemical Physics Letters, 2016, 653, 149-154.	2.6	3
75	Life Cycle Assessment of Vehicle Lightweighting: A Physics-Based Model To Estimate Use-Phase Fuel Consumption of Electrified Vehicles. Environmental Science & Technology, 2016, 50, 11226-11233.	10.0	70
76	Individual trip chain distributions for passenger cars: Implications for market acceptance of battery electric vehicles and energy consumption by plug-in hybrid electric vehicles. Applied Energy, 2016, 180, 650-660.	10.1	62
77	Assessing Economic Modulation of Future Critical Materials Use: The Case of Automotive-Related Platinum Group Metals. Environmental Science & Technology, 2016, 50, 7687-7695.	10.0	26
78	Cradle-to-Gate Emissions from a Commercial Electric Vehicle Li-Ion Battery: A Comparative Analysis. Environmental Science & Technology, 2016, 50, 7715-7722.	10.0	210
79	Biofuels, vehicle emissions, and urban air quality. Faraday Discussions, 2016, 189, 121-136.	3.2	14
80	CH3Cl, CH2Cl2, CHCl3, and CCl4: Infrared spectra, radiative efficiencies, and global warming potentials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 174, 56-64.	2.3	21
81	Oxidation Stability of Rapeseed Biodiesel/Petroleum Diesel Blends. Energy & Fuels, 2016, 30, 344-351.	5.1	20
82	Atmospheric chemistry of cis-CF3CH CHCl (HCFO-1233zd(Z)): Kinetics of the gas-phase reactions with Cl atoms, OH radicals, and O3. Chemical Physics Letters, 2015, 639, 289-293.	2.6	17
83	Atmospheric chemistry of short-chain haloolefins: Photochemical ozone creation potentials (POCPs), global warming potentials (GWPs), and ozone depletion potentials (ODPs). Chemosphere, 2015, 129, 135-141.	8.2	85
84	Source contributions of urban PM2.5 in the Beijingâ€"Tianjinâ€"Hebei region: Changes between 2006 and 2013 and relative impacts of emissions and meteorology. Atmospheric Environment, 2015, 123, 229-239.	4.1	152
85	Comment on â€œEnvironmental Fate of the Next Generation Refrigerant 2,3,3,3-Tetrafluoropropene (HFO-1234yf)â€³.. Environmental Science & Technology, 2015, 49, 8263-8264.	10.0	5
86	Atmospheric Chemistry of Oxygenated Volatile Organic Compounds: Impacts on Air Quality and Climate. Chemical Reviews, 2015, 115, 3984-4014.	47.7	374
87	Life Cycle Assessment of Vehicle Lightweighting: Novel Mathematical Methods to Estimate Use-Phase Fuel Consumption. Environmental Science & Technology, 2015, 49, 10209-10216.	10.0	58
88	Smoke Point Measurements of Diesel-Range Hydrocarbonâ€"Oxygenate Blends Using a Novel Approach for Fuel Blend Selection. Energy & Fuels, 2015, 29, 7641-7649.	5.1	21
89	Atmospheric Chemistry of (CF3)2CHOCH3, (CF3)2CHOCHO, and CF3C(O)OCH3. Journal of Physical Chemistry A, 2015, 119, 10540-10552.	2.5	12
90	The Mechanisms of Reactions Influencing Atmospheric Ozone. , 2015, , .		78

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91	Ethanol and Air Quality: Influence of Fuel Ethanol Content on Emissions and Fuel Economy of Flexible Fuel Vehicles. Environmental Science & Technology, 2014, 48, 861-867.	10.0	52
92	Light-Duty Vehicle CO₂ Targets Consistent with 450 ppm CO₂ Stabilization. Environmental Science & Technology, 2014, 48, 6453-6460.	10.0	20
93	Current and Future Greenhouse Gas Emissions Associated with Electricity Generation in China: Implications for Electric Vehicles. Environmental Science & Technology, 2014, 48, 7069-7075.	10.0	52
94	N2O emissions from global transportation. Atmospheric Environment, 2014, 94, 258-263.	4.1	38
95	Atmospheric chemistry of (CF3)2CFOCH3. Chemical Physics Letters, 2014, 607, 5-9.	2.6	8
96	Atmospheric Chemistry of Benzyl Alcohol: Kinetics and Mechanism of Reaction with OH Radicals. Environmental Science & Technology, 2013, 47, 3182-3189.	10.0	18
97	Comment on â€œNatural and Anthropogenic Ethanol Sources in North America and Potential Atmospheric Impacts of Ethanol Fuel Useâ€• Environmental Science & Technology, 2013, 47, 2139-2140.	10.0	1
98	Sustainable Mobility, Future Fuels, and the Periodic Table. Journal of Chemical Education, 2013, 90, 440-445.	2.3	17
99	Life-Cycle Energy and Greenhouse Gas Emission Benefits of Lightweighting in Automobiles: Review and Harmonization. Environmental Science & Technology, 2013, 47, 6089-6097.	10.0	177
100	Life Cycle Assessment of Vehicle Lightweighting: A Physics-Based Model of Mass-Induced Fuel Consumption. Environmental Science & Technology, 2013, 47, 14358-14366.	10.0	53
101	Diesel vehicles and sustainable mobility in the U.S.. Energy Policy, 2013, 54, 47-53.	8.8	47
102	Atmospheric Oxidation of Polyfluorinated Amides: Historical Source of Perfluorinated Carboxylic Acids to the Environment. Environmental Science & Technology, 2013, 47, 4317-4324.	10.0	18
103	Nitrogen Oxides: Vehicle Emissions and Atmospheric Chemistry. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 101-113.	0.2	1
104	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. Reviews of Geophysics, 2013, 51, 300-378.	23.0	390
105	Perfluorotributylamine: A novel long-lived greenhouse gas. Geophysical Research Letters, 2013, 40, 6010-6015.	4.0	18
106	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VI â€“ heterogeneous reactions with liquid substrates. Atmospheric Chemistry and Physics, 2013, 13, 8045-8228.	4.9	167
107	Corrigendum to "Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V â€“ heterogeneous reactions on solid substrates" published in Atmos. Chem. Phys. 10, 9059â€“9223, 2010. Atmospheric Chemistry and Physics, 2013, 13, 7359-7359.	4.9	9
108	Sustainable Mobility: Using a Global Energy Model to Inform Vehicle Technology Choices in a Decarbonized Economy. Sustainability, 2013, 5, 1845-1862.	3.2	10

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109	Sustainable Mobility: Insights from a Global Energy Model. , 2013, , 207-229.		0
110	Assessing the Impact on Global Climate from General Anesthetic Gases. Anesthesia and Analgesia, 2012, 114, 1081-1085.	2.2	153
111	Evaluating Rare Earth Element Availability: A Case with Revolutionary Demand from Clean Technologies. Environmental Science & Technology, 2012, 46, 3406-3414.	10.0	738
112	Atmospheric Chemistry of Isoflurane, Desflurane, and Sevoflurane: Kinetics and Mechanisms of Reactions with Chlorine Atoms and OH Radicals and Global Warming Potentials. Journal of Physical Chemistry A, 2012, 116, 5806-5820.	2.5	89
113	Relative Rate Study of the Kinetics, Mechanism, and Thermodynamics of the Reaction of Chlorine Atoms with CF₃CFâ•CH₂ (HFO-1234yf) in 650â€"950 Torr of N₂ or N₂/O₂Diluent at 296â€"462 K. Journal of Physical Chemistry A, 2012, 116, 5958-5971.	2.5	7
114	Corn Ethanol Production, Food Exports, and Indirect Land Use Change. Environmental Science & Technology, 2012, 46, 6379-6384.	10.0	38
115	Atmospheric chemistry of t-CF3CHî€CHCl: products and mechanisms of the gas-phase reactions with chlorine atoms and hydroxyl radicals. Physical Chemistry Chemical Physics, 2012, 14, 1735-1748.	2.8	16
116	High octane number ethanolâ€"gasoline blends: Quantifying the potential benefits in the United States. Fuel, 2012, 97, 585-594.	6.4	197
117	Atmospheric chemistry of CF3CH2OCH3: Reaction with chlorine atoms and OH radicals, kinetics, degradation mechanism and global warming potential. Chemical Physics Letters, 2012, 524, 32-37.	2.6	18
118	Atmospheric chemistry of CxF2x+1CHCH2 (x=1, 2, 4, 6 and 8): Radiative efficiencies and global warming potentials. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 233, 50-52.	3.9	16
119	Atmospheric chemistry of C2F5CH2OCH3 (HFE-365mcf). Physical Chemistry Chemical Physics, 2011, 13, 2758-2764.	2.8	9
120	Atmospheric Degradation of Perfluoro-2-methyl-3-pentanone: Photolysis, Hydrolysis and Hydration. Environmental Science & Technology, 2011, 45, 8030-8036.	10.0	38
121	Atmospheric Chemistry of Two Biodiesel Model Compounds: Methyl Propionate and Ethyl Acetate. Journal of Physical Chemistry A, 2011, 115, 8906-8919.	2.5	35
122	Global Lithium Availability. Journal of Industrial Ecology, 2011, 15, 760-775.	5.5	435
123	Impact of biofuel production and other supply and demand factors on food price increases in 2008. Biomass and Bioenergy, 2011, 35, 1623-1632.	5.7	139
124	Temperature (290â€"400K) and pressure (5â€"900Torr) dependence of the kinetics of the reactions of chlorine atoms with propene and 1-butene. Chemical Physics Letters, 2011, 501, 187-192.	2.6	3
125	Atmospheric chemistry of hexafluorocyclobutene, octafluorocyclopentene, and hexafluoro-1,3-butadiene. Chemical Physics Letters, 2011, 507, 19-23.	2.6	18
126	Mechanisms of Atmospheric Oxidation of the Oxygenates. , 2011, , .		156

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127	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V â€“ heterogeneous reactions on solid substrates. Atmospheric Chemistry and Physics, 2010, 10, 9059-9223.	4.9	312
128	PLPâ€“LIF study of the reactions of chlorine atoms with C2H2, C2H4, and C3H6 in 2â€“100 Torr of N2 diluent at 295 K. Chemical Physics Letters, 2010, 494, 174-178.	2.6	4
129	Estimated photochemical ozone creation potentials (POCPs) of CF3CFCH2 (HFO-1234yf) and related hydrofluoroolefins (HFOs). Atmospheric Environment, 2010, 44, 1478-1481.	4.1	44
130	Atmospheric Chemistry of HCF₂O(CF₂CF₂O)_{<i>x</i>}CF₂H (<i>x</i>=2â€“4): Kinetics and Mechanisms of the Chlorineâ€Atomâ€Initiated Oxidation. ChemPhysChem, 2010, 11, 4035-4041.	2.1	10
131	Kinetics and mechanisms of OHâ€Initiated oxidation of small unsaturated alcohols. International Journal of Chemical Kinetics, 2010, 42, 151-158.	1.6	4
132	Relative integrated IR absorption in the atmospheric window is not the same as relative radiative efficiency. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, E178-9; author reply E180.	7.1	4
133	Emissions Omissions. Science, 2010, 327, 268-269.	12.6	0
134	Inhalation anaesthetics and climate change. British Journal of Anaesthesia, 2010, 105, 760-766.	3.4	142
135	Atmospheric Chemistry of<i>n</i>-C₆F₁₃CH₂CHO: Formation from<i>n</i>-C₆F₁₃CH₂CH₂OH, Kinetics, and Mechanisms of Reactions with Chlorine Atoms and OH Radicals. Journal of Physical Chemistry A, 2010, 114, 6131-6137.	2.5	5
136	Infrared absorption spectra, radiative efficiencies, and global warming potentials of perfluorocarbons: Comparison between experiment and theory. Journal of Geophysical Research, 2010, 115, .	3.3	88
137	Distillation Curves for Alcoholâ^'Gasoline Blends. Energy & Fuels, 2010, 24, 2683-2691.	5.1	108
138	Atmospheric Chemistry of <i>i</i>-Butanol. Journal of Physical Chemistry A, 2010, 114, 12462-12469.	2.5	19
139	Products and Mechanism of the Reaction of Chlorine Atoms with 3-Pentanone in 700â^'950 Torr of N₂/O₂ Diluent at 297â^'515 K. Journal of Physical Chemistry A, 2010, 114, 343-354.	2.5	19
140	Vapor Pressures of Alcoholâ^'Gasoline Blends. Energy & Fuels, 2010, 24, 3647-3654.	5.1	157
141	Kinetics and Mechanism of Chlorine-Atom-Initiated Oxidation of Allyl Alcohol, 3-Buten-2-ol, and 2-Methyl-3-buten-2-ol. Journal of Physical Chemistry A, 2010, 114, 4224-4231.	2.5	17
142	CHF₂OCHF₂ (HFE-134): IR Spectrum and Kinetics and Products of the Chlorine-Atom-Initiated Oxidation. Journal of Physical Chemistry A, 2010, 114, 4963-4967.	2.5	9
143	Octane Numbers of Ethanolâ^' and Methanolâ^'Gasoline Blends Estimated from Molar Concentrations. Energy & Fuels, 2010, 24, 6576-6585.	5.1	169
144	Low-CO₂ Electricity and Hydrogen: A Help or Hindrance for Electric and Hydrogen Vehicles?. Environmental Science & Technology, 2010, 44, 2702-2708.	10.0	13

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145	Investigation of the Radical Product Channel of the CH₃OCH₂O₂ + HO₂ Reaction in the Gas Phase. Journal of Physical Chemistry A, 2010, 114, 408-416.	2.5	45
146	Cost-Effective Vehicle and Fuel Technology Choices in a Carbon-Constrained World. , 2010, , 91-111.		1
147	Kinetics and Mechanism of the Reaction of Methacrolein with Chlorine Atoms in 1â˜950 Torr of N₂or N₂/O₂Diluent at 297 K. Journal of Physical Chemistry A, 2010, 114, 6850-6860.	2.5	17
148	Atmospheric chemistry of perfluorobutenes (CF3CFCFCF3 and CF3CF2CFCF2): Kinetics and mechanisms of reactions with OH radicals and chlorine atoms, IR spectra, global warming potentials, and oxidation to perfluorocarboxylic acids. Atmospheric Environment, 2009, 43, 3717-3724.	4.1	26
149	The radiative efficiency of HCF2OCF2OCF2CF2OCF2H (H-Galden 1040x) revisited. Atmospheric Environment, 2009, 43, 4247-4249.	4.1	8
150	Kinetics of the gasâ€phase reactions of chlorine atoms with CH₂F₂, CH₃CCl₃, and CF₃CFH₂ over the temperature range 253â€"553 K. International Journal of Chemical Kinetics, 2009, 41, 401-406.	1.6	5
151	Kinetics of the gas phase reactions of chlorine atoms and OH radicals with CF3CBrCH2 and CF3CF2CBrCH2. Chemical Physics Letters, 2009, 482, 20-23.	2.6	3
152	Comment on â€œKinetics of the reactions of Cl atoms with 2-buten-1-ol, 2-methyl-2-propen-1-ol, and 3-methyl-2-buten-1-ol as a function of temperatureâ€•by Rodriguez et al. (J. Atmos. Chem. (2008)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	3
153	Kinetics of the reaction of chlorine atoms with isoprene (2-methyl 1,3-butadiene, CH2C(CH3)CH CH2) at 297 Â± 2 K. Chemical Physics Letters, 2009, 472, 39-43.	2.6	11
154	Atmospheric chemistry of cis-CF3CHCHF: Kinetics of reactions with OH radicals and O3 and products of OH radical initiated oxidation. Chemical Physics Letters, 2009, 473, 233-237.	2.6	35
155	Atmospheric chemistry of CF3CF2H and CF3CF2CF2CF2H: Kinetics and products of gas-phase reactions with Cl atoms and OH radicals, infrared spectra, and formation of perfluorocarboxylic acids. Chemical Physics Letters, 2009, 473, 251-256.	2.6	21
156	Kinetics of the reactions of chlorine atoms with a series of acetates. Chemical Physics Letters, 2009, 474, 268-272.	2.6	25
157	Fuel and Vehicle Technology Choices for Passenger Vehicles in Achieving Stringent CO₂ Targets: Connections between Transportation and Other Energy Sectors. Environmental Science & Technology, 2009, 43, 3365-3371.	10.0	72
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