Vladimir L Orkin

List of Publications by Year
in descending order

22	730	567281 15	677142 22
papers	citations	h-index	g-index

23	23	23	569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rate Constants for the Reactions of OH with HFC-245cb (CH3CF2CF3) and Some Fluoroalkenes (CH2CHCF3, CH2CFCF3, CF2CFCF3, and CF2CF2). Journal of Physical Chemistry A, 1997, 101, 9118-9124.	2.5	116
2	Determination of Atmospheric Lifetimes via the Measurement of OH Radical Kinetics. Chemical Reviews, 2003, 103, 5049-5076.	47.7	109
3	Atmospheric Lifetimes and Global Warming Potentials of Hydrofluoroethers:Â Reactivity toward OH, UV Spectra, and IR Absorption Cross Sections. Journal of Physical Chemistry A, 1999, 103, 9770-9779.	2.5	49
4	High-Accuracy Measurements of OH Reaction Rate Constants and IR Absorption Spectra: CH₂â•CFâ”CF₃ and trans-CHFâ•CHâ”CF₃. Journal of Physical Chemistry A, 2010, 114, 5967-5979.	2.5	48
5	Photochemical Properties of trans-1-Chloro-3,3,3-trifluoropropene (trans-CHClâ•CHCF₃): OH Reaction Rate Constant, UV and IR Absorption Spectra, Global Warming Potential, and Ozone Depletion Potential. Journal of Physical Chemistry A, 2014, 118, 5263-5271.	2.5	48
6	Atmospheric Lifetimes of HFC-143a and HFC-245fa:Â Flash Photolysis Resonance Fluorescence Measurements of the OH Reaction Rate Constants. The Journal of Physical Chemistry, 1996, 100, 8907-8912.	2.9	47
7	Photochemistry of Bromine-Containing Fluorinated Alkenes:â€‰ Reactivity toward OH and UV Spectra. Journal of Physical Chemistry A, 2002, 106, 10195-10199.	2.5	38
8	Rate Constant for the Reaction of OH with H2between 200 and 480 Kâ€. Journal of Physical Chemistry A, 2006, 110, 6978-6985.	2.5	36
9	Atmospheric Fate of Chlorobromomethane:â€‰ Rate Constant for the Reaction with OH, UV Spectrum, and Water Solubility. Journal of Physical Chemistry A, 1997, 101, 174-178.	2.5	35
10	Measurements of the infrared absorption cross-sections of haloalkanes and their use in a simplified calculational approach for estimating direct global warming potentials. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 157, 211-222.	3.9	31
11	OH Reactivity and UV Spectra of Propane,n-Propyl Bromide, and Isopropyl Bromide. Journal of Physical Chemistry A, 2003, 107, 1333-1338.	2.5	31
12	Rate Constants for the Reactions between OH and Perfluorinated Alkenes. Journal of Physical Chemistry A, 2011, 115, 6568-6574.	2.5	29
13	An Investigation of the Reactivity of OH with Fluoroethanes:Â CH3CH2F (HFC-161), CH2FCH2F (HFC-152), and CH3CHF2(HFC-152a). Journal of Physical Chemistry A, 2003, 107, 2239-2246.	2.5	24
14	Determination of rate constants for reactions of some hydrohaloalkanes with OH radicals and their atmospheric lifetimes. Journal of Atmospheric Chemistry, 1993, 16, 157-167.	3.2	23
15	High-Accuracy Measurements of OH^{â€¢} Reaction Rate Constants and IR and UV Absorption Spectra: Ethanol and Partially Fluorinated Ethyl Alcohols. Journal of Physical Chemistry A, 2011, 115, 8656-8668.	2.5	20
16	Measurements of Rate Constants for the OH Reactions with Bromoform (CHBr₃), CHBr₂Cl, CHBrCl₂, and Epichlorohydrin (C₃H₅ClO). Journal of Physical Chemistry A, 2013, 117, 3809-3818.	2.5	15
17	OH reaction rate constant, IR absorption spectrum, ozone depletion potentials and global warming potentials of 2-bromo-3,3,3-trifluoropropene. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
18	High Accuracy Measurements of OH Reaction Rate Constants and IR Absorption Spectra: Substituted 2-Propanols. Journal of Physical Chemistry A, 2012, 116, 6188-6198.	2.5	9

#	Article	IF	Citations
19	Photochemical Properties of Hydrofluoroethers CH₃OCHF₂, CH₃OCF₃, and CHF₂OCH₂CF₃: Reactivity toward OH, IR Absorption Cross Sections, Atmospheric Lifetimes, and Global Warming Potentials. Journal of Physical Chemistry A, 2014, 118, 10770-10777.	2.5	5
20	Photochemical Properties of CH₂â•CH-CFCl-CF₂Br (4-Bromo-3-chloro-3,4,4-trifluoro-1-butene) and CH₃-O-CH(CF₃)₂ (Methyl Hexafluoroisopropyl Ether): OH Reaction Rate Constants and UV and IR Absorption Spectra. Journal of Physical Chemistry A, 2017, 121, 5675-5680.	2.5	2
21	Study of the reactions of OH with HCl, HBr, and HI between 298 K and 460 K. International Journal of Chemical Kinetics, 2020, 52, 852-860.	1.6	1
22	Atmospheric Lifetimes of Halogenated Hydrocarbons: Improved Estimations From an Analysis of Modeling Results. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032243.	3.3	1