John J Orlando

List of Publications by Year in descending order

98	5,777	74677 40	86272 71
papers	citations	h-index	g-index

104	104	104	5625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of Organized Turbulence on OH Reactivity at a Deciduous Forest. Geophysical Research Letters, 2023, 50, .	4.0	1
2	Contamination of tea leaves by anthraquinone: The atmosphere as a possible source. Ambio, 2023, 52, 1373-1388.	5.8	0
3	Atmospheric Fate of a New Polyfluoroalkyl Building Block, C₃F₇OCHFCF₂SCH₂CH₂OH. Environmental Science & Technology, 2022, 56, 6027-6035.	10.5	12
4	The Role of Snow in Controlling Halogen Chemistry and Boundary Layer Oxidation During Arctic Spring: A 1D Modeling Case Study. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
5	Formation and Evolution of Catechol-Derived SOA Mass, Composition, Volatility, and Light Absorption. ACS Earth and Space Chemistry, 2022, 6, 1067-1079.	2.8	7
6	Upper stratospheric ClO and HOCl trends (2005â€“2020): Aura Microwave Limb Sounder and model results. Atmospheric Chemistry and Physics, 2022, 22, 4779-4799.	5.0	4
7	Large Eddy Simulation for Investigating Coupled Forest Canopy and Turbulence Influences on Atmospheric Chemistry. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.7	5
8	PP266 [Lung Â» Other]: MECHANICAL POWER, NORMALIZED MECHANICAL POWER AND MECHANICAL ENERGY DURING PEDIATRIC MECHANICAL VENTILATION IN PRESSURE-CONTROL AND VOLUME-CONTROL MODES. Pediatric Critical Care Medicine, 2022, 23, .	0.6	0
9	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035203.	3.3	17
10	Evolution of OH reactivity in NO-free volatile organic compound photooxidation investigated by the fully explicit GECKO-A model. Atmospheric Chemistry and Physics, 2021, 21, 14649-14669.	5.0	4
11	Heterogeneous Nucleation Drives Particle Size Segregation in Sequential Ozone and Nitrate Radical Oxidation of Catechol. Environmental Science & Technology, 2021, 55, 15637-15645.	10.5	15
12	Atmospheric Processing of Nitrophenols and Nitrocresols From Biomass Burning Emissions. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033401.	3.3	26
13	Exploration of oxidative chemistry and secondary organic aerosol formation in the Amazon during the wet season: explicit modeling of the Manaus urban plume with GECKO-A. Atmospheric Chemistry and Physics, 2020, 20, 5995-6014.	5.0	9
14	The atmospheric oxidation of hydroxyacetone: Chemistry of activated and stabilized CH₃C(O)CH(OH)OOâ€¢ radicals between 252 and 298 K. International Journal of Chemical Kinetics, 2020, 52, 236-250.	1.7	5
15	The Impact of Ethnicity on Cardiovascular Risk Reduction and Heart Age After Bariatric Surgery. Obesity Surgery, 2020, 30, 1679-1684.	2.4	3
16	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	3.7	222
17	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. Atmospheric Chemistry and Physics, 2020, 20, 3739-3776.	5.0	49
18	Quantifying the nitrogen isotope effects during photochemical equilibrium between NO and NO₂: implications for <i>Î´</i>¹⁵N in tropospheric reactive nitrogen. Atmospheric Chemistry and Physics, 2020, 20, 9805-9819.	5.0	23

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19	Database for the kinetics of the gas-phase atmospheric reactions of organic compounds. Earth System Science Data, 2020, 12, 1203-1216.	8.9	63
20	Organic peroxy radical chemistry in oxidation flow reactors and environmental chambers and their atmospheric relevance. Atmospheric Chemistry and Physics, 2019, 19, 813-834.	5.0	40
21	Atmospheric Acetaldehyde: Importance of Airâ€Sea Exchange and a Missing Source in the Remote Troposphere. Geophysical Research Letters, 2019, 46, 5601-5613.	4.0	42
22	Molecular characterization of alkyl nitrates in atmospheric aerosols by ion mobility mass spectrometry. Atmospheric Measurement Techniques, 2019, 12, 5535-5545.	3.1	15
23	The chemistryâ€“climate model ECHAM6.3-HAM2.3-MOZ1.0. Geoscientific Model Development, 2018, 11, 1695-1723.	3.7	57
24	AÂsteady-state continuous flow chamber for the study of daytime and nighttime chemistry under atmospherically relevant NO levels. Atmospheric Measurement Techniques, 2018, 11, 2537-2551.	3.1	15
25	The Essential Role for Laboratory Studies in Atmospheric Chemistry. Environmental Science & Technology, 2017, 51, 2519-2528.	10.5	80
26	Multi-instrument comparison and compilation of non-methane organic gas emissions from biomass burning and implications for smoke-derived secondary organic aerosol precursors. Atmospheric Chemistry and Physics, 2017, 17, 1471-1489.	5.0	125
27	Bromine atom production and chain propagation during springtime Arctic ozone depletion events in Barrow, Alaska. Atmospheric Chemistry and Physics, 2017, 17, 3401-3421.	5.0	11
28	Experimentally Determined Site-Specific Reactivity of the Gas-Phase OH and Cl + i-Butanol Reactions Between 251 and 340 K. Journal of Physical Chemistry A, 2016, 120, 9968-9981.	2.6	9
29	Arctic springtime observations of volatile organic compounds during the OASISâ€2009 campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9789-9813.	3.3	20
30	High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94.	11.9	107
31	Rate Constants and Kinetic Isotope Effects for Methoxy Radical Reacting with NO₂ and O₂. Journal of Physical Chemistry A, 2014, 118, 3552-3563.	2.6	19
32	Branching Ratios for the Reaction of Selected Carbonyl-Containing Peroxy Radicals with Hydroperoxy Radicals. Journal of Physical Chemistry A, 2012, 116, 6264-6281.	2.6	45
33	Temperature-Dependent Branching Ratios of Deuterated Methoxy Radicals (CH2DOâ€¢) Reacting With O2. Journal of Physical Chemistry A, 2012, 116, 6295-6302.	2.6	7
34	Laboratory studies of organic peroxy radical chemistry: an overview with emphasis on recent issues of atmospheric significance. Chemical Society Reviews, 2012, 41, 6294.	40.3	426
35	Ozone dynamics and snowâ€atmosphere exchanges during ozone depletion events at Barrow, Alaska. Journal of Geophysical Research, 2012, 117, .	3.3	53
36	The atmospheric oxidation of ethyl formate and ethyl acetate over a range of temperatures and oxygen partial pressures. International Journal of Chemical Kinetics, 2010, 42, 397-413.	1.7	26

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37	Atmospheric chemistry of isopropyl formate and tertâ€butyl formate. International Journal of Chemical Kinetics, 2010, 42, 479-498.	1.7	19
38	Spectroscopic and Kinetic Properties of HO₂ Radicals and the Enhancement of the HO₂ Self Reaction by CH₃OH and H₂O. Journal of Physical Chemistry A, 2010, 114, 369-378.	2.6	59
39	LesÃ£o complexa da traqueia: correÃ§Ã£o com retalho pediculado de mÃºsculo intercostal. Jornal Brasileiro De Pneumologia, 2009, 35, 1250-1253.	0.8	1
40	Unique isoprene oxidation products demonstrate chlorine atom chemistry occurs in the Houston, Texas urban area. Journal of Atmospheric Chemistry, 2008, 61, 227-242.	3.2	16
41	EGF receptor-independent action of TGF-Î± protects Naked2 from AO7-mediated ubiquitylation and proteasomal degradation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13433-13438.	7.6	19
42	The atmospheric oxidation of diethyl ether: chemistry of the C2H5â€“Oâ€“CH(OË™)CH3 radical between 218 and 335 K. Physical Chemistry Chemical Physics, 2007, 9, 4189.	2.9	29
43	Rediscovery of Cerebrosterol. Lipids, 2007, 42, 5-14.	1.8	52
44	An FT-IR study of the isomerization of 1-butoxy radicals under atmospheric conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 177, 109-115.	4.0	10
45	Atmospheric Chemistry of Hydrazoic Acid (HN3):â€‰ UV Absorption Spectrum, HOâ€¢ Reaction Rate, and Reactions of the â€¢N3 Radical. Environmental Science & Technology, 2005, 39, 1632-1640.	10.5	15
46	Rates and Mechanisms for the Reactions of Chlorine Atoms with Iodoethane and 2-Iodopropane. Journal of Physical Chemistry A, 2005, 109, 6659-6675.	2.6	24
47	Rate coefficients and production of vibrationally excited HCl from the reactions of chlorine atoms with methanol, ethanol, acetaldehyde and formaldehyde. Physical Chemistry Chemical Physics, 2004, 6, 2224.	2.9	22
48	A Product Yield Study of the Reaction of HO2Radicals with Ethyl Peroxy (C2H5O2), Acetyl Peroxy (CH3C(O)O2), and Acetonyl Peroxy (CH3C(O)CH2O2) Radicals. Journal of Physical Chemistry A, 2004, 108, 5979-5989.	2.6	215
49	Rate coefficients and mechanisms of the reaction of cl-atoms with a series of unsaturated hydrocarbons under atmospheric conditions. International Journal of Chemical Kinetics, 2003, 35, 334-353.	1.7	91
50	Gas phase UV absorption spectra for peracetic acid, and for acetic acid monomers and dimers. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 157, 161-166.	4.0	44
51	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	866
52	The Atmospheric Chemistry of Alkoxy Radicals. Chemical Reviews, 2003, 103, 4657-4690.	51.4	332
53	Oxidation Mechanisms for Ethyl Chloride and Ethyl Bromide under Atmospheric Conditions. Journal of Physical Chemistry A, 2002, 106, 312-319.	2.6	17
54	Mechanisms for the Reactions of OH with Two Unsaturated Aldehydes:Â Crotonaldehyde and Acrolein. Journal of Physical Chemistry A, 2002, 106, 12252-12259.	2.6	56

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55	Mechanism of the reaction of OH radicals with acetone and acetaldehyde at 251 and 296 K. Physical Chemistry Chemical Physics, 2002, 4, 2189-2193.	2.9	60
56	Rate Coefficients and Product Yields from Reaction of OH with 1-Penten-3-ol, (Z)-2-Penten-1-ol, and Allyl Alcohol (2-Propen-1-ol). Journal of Physical Chemistry A, 2001, 105, 3564-3569.	2.6	72
57	The atmospheric chemistry of the HC(O)CO radical. International Journal of Chemical Kinetics, 2001, 33, 149-156.	1.7	55
58	Temperature-dependent rate coefficient measurements for the reaction of bromine atoms with trichloroethene, ethene, acetylene, and tetrachloroethene in air. International Journal of Chemical Kinetics, 2001, 33, 198-211.	1.7	19
59	The Atmospheric Chemistry of Glycolaldehyde. Journal of Atmospheric Chemistry, 2001, 39, 171-189.	3.2	82
60	UV absorption cross-sections of cis-BrONO. Chemical Physics Letters, 2000, 317, 603-608.	2.7	8
61	UV absorption spectrum of BrOCl. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 134, 133-137.	4.0	2
62	Product studies of the OH- and ozone-initiated oxidation of some monoterpenes. Journal of Geophysical Research, 2000, 105, 11561-11572.	3.3	109
63	Chemistry of the Cyclopentoxy and Cyclohexoxy Radicals at Subambient Temperatures. Journal of Physical Chemistry A, 2000, 104, 5072-5079.	2.6	56
64	The Atmospheric Chemistry of the Acetonoxy Radical. Journal of Physical Chemistry A, 2000, 104, 11578-11588.	2.6	75
65	Identification of BrONO as the Major Product in the Gas-Phase Reaction of Br with NO2. Journal of Physical Chemistry A, 2000, 104, 2048-2053.	2.6	18
66	Upper limits for the rate coefficients for reactions of BrO with formaldehyde and HBr. Geophysical Research Letters, 2000, 27, 2633-2636.	4.0	12
67	Title is missing!. Journal of Atmospheric Chemistry, 1999, 33, 321-330.	3.2	56
68	The rate and mechanism of the gas-phase oxidation of hydroxyacetone. Atmospheric Environment, 1999, 33, 1621-1629.	4.2	65
69	Temperature dependence of the rate coefficients for the reaction of chlorine atoms with chloromethanes. International Journal of Chemical Kinetics, 1999, 31, 515-524.	1.7	32
70	Mechanism of the OH-initiated oxidation of methacrolein. Geophysical Research Letters, 1999, 26, 2191-2194.	4.0	89
71	FT-IR Product Studies of the Cl-Initiated Oxidation of CH3Cl in the Presence of NO. Journal of Physical Chemistry A, 1999, 103, 3963-3968.	2.6	28
72	Decomposition of Î²-Hydroxypropoxy Radicals in the OH-Initiated Oxidation of Propene. A Theoretical and Experimental Study. Journal of Physical Chemistry A, 1999, 103, 4693-4702.	2.6	57

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73	Atmospheric chemistry of acetone: Kinetic study of the CH3C(O)CH2O2+NO/NO2 reactions and decomposition of CH3C(O)CH2O2NO2. International Journal of Chemical Kinetics, 1998, 30, 475-489.	1.7	32
74	Laboratory and Theoretical Study of the Oxy Radicals in the OH- and Cl-Initiated Oxidation of Ethene. Journal of Physical Chemistry A, 1998, 102, 8116-8123.	2.6	148
75	Rate coefficient upper limits for the BrONO2and ClONO2+ O3reactions. Geophysical Research Letters, 1998, 25, 3567-3569.	4.0	1
76	Quantum yields for Cl(2P3/2,1/2), ClO and O(3P) in the photolysis of chlorine nitrate at 308 nm. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2675-2682.	1.8	9
77	Atmospheric Chemistry of HFC-236cb:â€‰ Fate of the Alkoxy Radical CF3CF2CFHO. Journal of Physical Chemistry A, 1997, 101, 2828-2832.	2.6	17
78	Photolysis of ozone at 308 and 248 nm: Quantum yield of O(Â¹D) as a function of temperature. Geophysical Research Letters, 1997, 24, 1091-1094.	4.0	34
79	Pressure dependence of the rate coefficients and product yields for the reaction of CH3CO radicals with O2. International Journal of Chemical Kinetics, 1997, 29, 655-663.	1.7	66
80	The reactions of ozone with alkenes: An important source of HOxin the boundary layer. Geophysical Research Letters, 1996, 23, 3727-3730.	4.0	255
81	Atmospheric chemistry of CH2BR2: Rate coefficients for its reaction with Cl atoms and OH and the chemistry of the CHBr2O radical. International Journal of Chemical Kinetics, 1996, 28, 433-442.	1.7	44
82	High-Resolution Infrared Spectrum of the Î½1and Î½3Bands of Dichlorine Monoxide, Cl2O. Journal of Molecular Spectroscopy, 1996, 175, 68-72.	1.3	18
83	Modeling the Fractionation Process in TREF Systems. III. Model Validation With Low Molecular Weight Homopolymers. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 1147-1154.	2.4	12
84	Atmospheric Oxidation of CH3Br:Â Chemistry of the CH2BrO Radical. The Journal of Physical Chemistry, 1996, 100, 7026-7033.	2.9	47
85	Rate Coefficients for the Thermal Decomposition of BrONO2and the Heat of Formation of BrONO2. The Journal of Physical Chemistry, 1996, 100, 19398-19405.	2.9	57
86	Rate coefficients for the reactions of O(3P) with selected biogenic Hydrocarbons. International Journal of Chemical Kinetics, 1995, 27, 997-1008.	1.7	20
87	Rate coefficients for the reactions of OH radicals with Methylglyoxal and Acetaldehyde. International Journal of Chemical Kinetics, 1995, 27, 1009-1020.	1.7	67
88	Upper Limit for the Rate Coefficient for the Reaction HO2 + NO2 .fwdarw. HONO + O2. Environmental Science & Technology, 1995, 29, 202-206.	10.5	45
89	The UV-visible absorption spectrum and photolysis quantum yields of methylglyoxal. Journal of Geophysical Research, 1995, 100, 14189.	3.3	56
90	Rate coefficients for quenching of Cl(2P1/2) by various atmospheric gases. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3055.	1.8	49

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91	Thermal decomposition pathways for peroxyacetyl nitrate (PAN): Implications for atmospheric methyl nitrate levels. Atmospheric Environment Part A General Topics, 1992, 26, 3111-3118.	1.3	61
92	Temperature dependence of the infrared absorption cross sections of carbon tetrachloride. Geophysical Research Letters, 1992, 19, 1005-1008.	4.0	16
93	The temperature dependence of the UVâ€"visible absorption cross-sections of NOCl. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 69, 1-5.	4.0	18
94	Temperature and pressure dependence of the rate coefficient for the reaction NO3+ NO2+ N2? N2O5+ N2. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2345.	1.8	10
95	Atmospheric fate of CF₃Br, CF₂Br₂, CF₂ClBr, and CF₂BrCF₂BR. Journal of Geophysical Research, 1991, 96, 5025-5043.	3.3	54
96	Infrared measurements of BrO (X2Î32). Journal of Molecular Spectroscopy, 1991, 145, 278-289.	1.3	29
97	H+O3 Fourierâ€transform infrared emission and laser absorption studies of OH (Xâ€‰2Î) radical: An experimental dipole moment function and stateâ€toâ€state Einstein A coefficients. Journal of Chemical Physics, 1990, 93, 7003-7019.	3.1	123
98	Fourier transform infrared spectrum of the Î½3 band of HCO. Journal of Molecular Spectroscopy, 1988, 130, 445-453.	1.3	18