Sasha Madronich

List of Publications by Year
in descending order

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211 papers	17,310 citations	15466 65 h-index	18606 119 g-index
241 all docs	241 docs citations	241 times ranked	12761 citing authors

#	Article	IF	Citations
1	Epidemic influenza and vitamin D. Epidemiology and Infection, 2006, 134, 1129-1140.	1.0	834
2	Changes in biologically active ultraviolet radiation reaching the Earth's surface. Journal of Photochemistry and Photobiology B: Biology, 1998, 46, 5-19.	1.7	796
3	A threeâ€dimensional Eulerian acid deposition model: Physical concepts and formulation. Journal of Geophysical Research, 1987, 92, 14681-14700.	3.3	786
4	Photodissociation in the atmosphere: 1. Actinic flux and the effects of ground reflections and clouds. Journal of Geophysical Research, 1987, 92, 9740-9752.	3.3	731
5	Ozone depletion and climate change: impacts on UV radiation. Photochemical and Photobiological Sciences, 2011, 10, 182-198.	1.6	403
6	An overview of the MILAGRO 2006 Campaign: Mexico City emissions and their transport and transformation. Atmospheric Chemistry and Physics, 2010, 10, 8697-8760.	1.9	349
7	Modeling organic aerosols in a megacity: potential contribution of semi-volatile and intermediate volatility primary organic compounds to secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2010, 10, 5491-5514.	1.9	340
8	The Role of Solar Radiation in Atmospheric Chemistry. Handbook of Environmental Chemistry, 1999, , 1-26.	0.2	338
9	Permutation reactions of organic peroxy radicals in the troposphere. Journal of Geophysical Research, 1990, 95, 5697-5715.	3.3	333
10	Assessment of the global impact of aerosols on tropospheric oxidants. Journal of Geophysical Research, 2005, 110, .	3.3	289
11	Solar ultraviolet radiation in a changing climate. Nature Climate Change, 2014, 4, 434-441.	8.1	277
12	Modelling the evolution of organic carbon during its gas-phase tropospheric oxidation: development of an explicit model based on a self generating approach. Atmospheric Chemistry and Physics, 2005, 5, 2497-2517.	1.9	270
13	Evaluation of recently-proposed secondary organic aerosol models for a case study in Mexico City. Atmospheric Chemistry and Physics, 2009, 9, 5681-5709.	1.9	261
14	Implications of recent total atmospheric ozone measurements for biologically active ultraviolet radiation reaching the Earth's surface. Geophysical Research Letters, 1992, 19, 37-40.	1.5	255
15	Effect of clouds on photolysis and oxidants in the troposphere. Journal of Geophysical Research, 2003, 108, .	3.3	240
16	Ozone depletion and climate change: impacts on UV radiation. Photochemical and Photobiological Sciences, 2014, 14, 19-52.	1.6	227
17	Rethinking the global secondary organic aerosol (SOA) budget: stronger production, faster removal, shorter lifetime. Atmospheric Chemistry and Physics, 2016, 16, 7917-7941.	1.9	216
18	Correspondence. Epidemiology and Infection, 2007, 135, 1095-1098.	1.0	213

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19	A meteorological overview of the MILAGRO field campaigns. Atmospheric Chemistry and Physics, 2007, 7, 2233-2257.	1.9	199
20	Wildfire particulate matter in Europe during summer 2003: meso-scale modeling of smoke emissions, transport and radiative effects. Atmospheric Chemistry and Physics, 2007, 7, 4043-4064.	1.9	198
21	Characterizations of chemical oxidants in Mexico City: A regional chemical dynamical model (WRF-Chem) study. Atmospheric Environment, 2007, 41, 1989-2008.	1.9	198
22	Air quality progress in North American megacities: A review. Atmospheric Environment, 2011, 45, 7015-7025.	1.9	196
23	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. Photochemical and Photobiological Sciences, 2018, 17, 127-179.	1.6	177
24	Association BetweenNRASandBRAFMutational Status and Melanoma-Specific Survival Among Patients With Higher-Risk Primary Melanoma. JAMA Oncology, 2015, 1, 359.	3.4	164
25	Measurements and model simulations of the photostationary state during the Mauna Loa Observatory Photochemistry Experiment: Implications for radical concentrations and ozone production and loss rates. Journal of Geophysical Research, 1992, 97, 10375-10388.	3.3	162
26	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. Nature Sustainability, 2019, 2, 569-579.	11.5	156
27	Effect of anthropogenic aerosols on biologically active ultraviolet radiation. Geophysical Research Letters, 1991, 18, 2265-2268.	1.5	149
28	The influence of aerosols on photochemical smog in Mexico City. Atmospheric Environment, 2001, 35, 1765-1772.	1.9	147
29	Weekly patterns of MÃ©xico City's surface concentrations of CO, NO_x, PM₁₀ and O₃ during 1986â€“2007. Atmospheric Chemistry and Physics, 2008, 8, 5313-5325.	1.9	143
30	Comparison of Clinicopathologic Features and Survival of Histopathologically Amelanotic and Pigmented Melanomas. JAMA Dermatology, 2014, 150, 1306.	2.0	142
31	Theoretical study of the initial products of the atmospheric oxidation of hydrocarbons. Journal of Geophysical Research, 1987, 92, 2211-2220.	3.3	141
32	The SOA/VOC/NO_x system: an explicit model of secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2007, 7, 5599-5610.	1.9	136
33	The Atmosphere and UV-B Radiation at Ground Level. , 1993, , 1-39.		132
34	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. Atmospheric Chemistry and Physics, 2010, 10, 2353-2375.	1.9	131
35	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194.	1.9	121
36	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. Atmospheric Chemistry and Physics, 2009, 9, 6949-6981.	1.9	119

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37	Enhanced absorption of UV radiation due to multiple scattering in clouds: Experimental evidence and theoretical explanation. Journal of Geophysical Research, 1998, 103, 31241-31254.	3.3	116
38	Explicit modelling of SOA formation from Î±-pinene photooxidation: sensitivity to vapour pressure estimation. Atmospheric Chemistry and Physics, 2011, 11, 6895-6910.	1.9	116
39	Sources, fates, toxicity, and risks of trifluoroacetic acid and its salts: Relevance to substances regulated under the Montreal and Kyoto Protocols. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2016, 19, 289-304.	2.9	116
40	Skin cancer and UV radiation. Nature, 1993, 366, 23-23.	13.7	113
41	HNO3/NOxratio in the remote troposphere During MLOPEX 2: Evidence for nitric acid reduction on carbonaceous aerosols?. Geophysical Research Letters, 1996, 23, 2609-2612.	1.5	110
42	Changes in CH4and CO growth rates after the eruption of Mt. Pinatubo and their link with changes in tropical tropospheric UV flux. Geophysical Research Letters, 1996, 23, 2761-2764.	1.5	108
43	Theoretical Estimation of Biologically Effective UV Radiation at the Earthâ€™s Surface. , 1997, , 23-48.		104
44	Meteorological Research Needs for Improved Air Quality Forecasting: Report of the 11th Prospectus Development Team of the U.S. Weather Research Program*. Bulletin of the American Meteorological Society, 2004, 85, 563-586.	1.7	104
45	Effect of hydrophobic primary organic aerosols on secondary organic aerosol formation from ozonolysis of Î±â€pinene. Geophysical Research Letters, 2007, 34, .	1.5	104
46	Visibleâ€ultraviolet absorption cross sections for NO₂ as a function of temperature. Journal of Geophysical Research, 1988, 93, 7105-7112.	3.3	103
47	Satellite retrievals of erythemal UV dose compared with ground-based measurements at northern and southern midlatitudes. Journal of Geophysical Research, 2001, 106, 24051-24062.	3.3	101
48	The behavior of some organic nitrates at Boulder and Niwot Ridge, Colorado. Journal of Geophysical Research, 1990, 95, 13949-13961.	3.3	100
49	Intercomparison of NO2 photodissociation and U.V. Radiometer Measurements. Atmospheric Environment, 1987, 21, 569-578.	1.1	98
50	Impact of recent total ozone changes on tropospheric ozone photodissociation, hydroxyl radicals, and methane trends. Geophysical Research Letters, 1992, 19, 465-467.	1.5	98
51	Airborne measurements of the photolysis frequency of NO2. Journal of Geophysical Research, 1996, 101, 18613-18627.	3.3	95
52	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. Photochemical and Photobiological Sciences, 2021, 20, 1-67.	1.6	93
53	Influence of the choice of gas-phase mechanism on predictions of key gaseous pollutants during the AQMEII phase-2 intercomparison. Atmospheric Environment, 2015, 115, 553-568.	1.9	92
54	PALEOCLIMATE: Toward Solving the UV Puzzle. Science, 2002, 296, 1621-1622.	6.0	91

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55	Modeling the Multiday Evolution and Aging of Secondary Organic Aerosol During MILAGRO 2006. Environmental Science & Technology, 2011, 45, 3496-3503.	4.6	90
56	Impact of chamber wall loss of gaseous organic compounds on secondary organic aerosol formation: explicit modeling of SOA formation from alkane and alkene oxidation. Atmospheric Chemistry and Physics, 2016, 16, 1417-1431.	1.9	87
57	Modeling SOA formation from the oxidation of intermediate volatility <i>n</i>-alkanes. Atmospheric Chemistry and Physics, 2012, 12, 7577-7589.	1.9	85
58	Changes in tropospheric composition and air quality. Journal of Photochemistry and Photobiology B: Biology, 1998, 46, 83-95.	1.7	84
59	A photochemical origin of acetic acid in the troposphere. Geophysical Research Letters, 1990, 17, 2361-2364.	1.5	82
60	STRATOSPHERIC OZONE DEPLETION BETWEEN 1979 and 1992: IMPLICATIONS FOR BIOLOGICALLY ACTIVE ULTRAVIOLETâ€B RADIATION and NONâ€MELANOMA SKIN CANCER INCIDENCE. Photochemistry and Photobiology, 1994, 59, 541-546.	1.3	82
61	Calculation of actinic fluxes with a coupled atmosphereâ€“snow radiative transfer model. Journal of Geophysical Research, 2002, 107, ACH 22-1.	3.3	82
62	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?. Atmospheric Chemistry and Physics, 2010, 10, 10997-11016.	1.9	80
63	Seasonal variability of secondary organic aerosol: A global modeling study. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	78
64	Aircraft measurements of NO_x over the eastern Pacific and continental United States and implications for ozone production. Journal of Geophysical Research, 1990, 95, 10205-10233.	3.3	77
65	On the NO2+ soot reaction in the atmosphere. Journal of Geophysical Research, 1999, 104, 1729-1736.	3.3	76
66	Chemical evolution of gaseous air pollutants down-wind of tropical megacities: Mexico City case study. Atmospheric Environment, 2006, 40, 6012-6018.	1.9	76
67	Simulation of Mexico City plumes during the MIRAGE-Mex field campaign using the WRF-Chem model. Atmospheric Chemistry and Physics, 2009, 9, 4621-4638.	1.9	76
68	Title is missing!. Journal of Atmospheric Chemistry, 2000, 35, 59-75.	1.4	75
69	Aerosol single scattering albedo retrieved from measurements of surface UV irradiance and a radiative transfer model. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	74
70	Organic photolysis reactions in tropospheric aerosols: effect on secondary organic aerosol formation and lifetime. Atmospheric Chemistry and Physics, 2015, 15, 9253-9269.	1.9	74
71	Altitude effects on UV spectral irradiance deduced from measurements at Lauder, New Zealand, and at Mauna Loa Observatory, Hawaii. Journal of Geophysical Research, 2001, 106, 22845-22860.	3.3	73
72	Effect of sulfate aerosol on tropospheric NOxand ozone budgets: Model simulations and TOPSE evidence. Journal of Geophysical Research, 2003, 108, .	3.3	70

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73	Global methane emission estimates from ultraviolet irradiation of terrestrial plant foliage. New Phytologist, 2010, 187, 417-425.	3.5	69
74	Secondary organic aerosol formation from semiâ€•and intermediateâ€volatility organic compounds and glyoxal: Relevance of O/C as a tracer for aqueous multiphase chemistry. Geophysical Research Letters, 2013, 40, 978-982.	1.5	69
75	Observations of peroxyacetyl nitrate, peroxypropionyl nitrate, methyl nitrate and ozone during the Mauna Loa Observatory photochemistry experiment. Journal of Geophysical Research, 1992, 97, 10311-10330.	3.3	68
76	Actinometric and radiometric measurement and modeling of the photolysis rate coefficient of ozone to O(1D) during Mauna Loa Observatory Photochemistry Experiment 2. Journal of Geophysical Research, 1996, 101, 14631-14642.	3.3	68
77	Retrieval of aerosol single scattering albedo at ultraviolet wavelengths at the T1 site during MILAGRO. Atmospheric Chemistry and Physics, 2009, 9, 5813-5827.	1.9	68
78	Effects of dust aerosols on tropospheric chemistry during a typical pre-monsoon season dust storm in northern India. Atmospheric Chemistry and Physics, 2014, 14, 6813-6834.	1.9	68
79	Nighttime chemical evolution of aerosol and trace gases in a power plant plume: Implications for secondary organic nitrate and organosulfate aerosol formation, NO₃ radical chemistry, and N₂O₅ heterogeneous hydrolysis. Journal of Geophysical Research, 2010, 115, .	3.3	67
80	Volatility dependence of Henry's law constants of condensable organics: Application to estimate depositional loss of secondary organic aerosols. Geophysical Research Letters, 2014, 41, 4795-4804.	1.5	67
81	Effects of snow cover on UV irradiance and surface albedo: A case study. Journal of Geophysical Research, 1998, 103, 28785-28792.	3.3	66
82	Actinometer and Eppley radiometer measurements of the NO₂ photolysis rate coefficient during the Mauna Loa Observatory photochemistry experiment. Journal of Geophysical Research, 1992, 97, 10349-10359.	3.3	65
83	Biogenic emissions of isoprenoids and NO in China and comparison to anthropogenic emissions. Science of the Total Environment, 2006, 371, 238-251.	3.9	65
84	Explicit modeling of organic chemistry and secondary organic aerosol partitioning for Mexico City and its outflow plume. Atmospheric Chemistry and Physics, 2011, 11, 13219-13241.	1.9	65
85	Theoretical, actinometric, and radiometric determinations of the photolysis rate coefficient of NO2during the Mauna Loa Observatory Photochemistry Experiment 2. Journal of Geophysical Research, 1996, 101, 14613-14630.	3.3	63
86	A photostationary state analysis of the NO₂â€NO system based on airborne observations from the subtropical/tropical North and South Atlantic. Journal of Geophysical Research, 1993, 98, 23501-23523.	3.3	62
87	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2016. Photochemical and Photobiological Sciences, 2017, 16, 107-145.	1.6	62
88	Climate change-induced increases in precipitation are reducing the potential for solar ultraviolet radiation to inactivate pathogens in surface waters. Scientific Reports, 2017, 7, 13033.	1.6	62
89	Vitamin D receptor polymorphisms in patients with cutaneous melanoma. International Journal of Cancer, 2012, 130, 405-418.	2.3	61
90	New insights on OH: Measurements around and in clouds. Geophysical Research Letters, 1997, 24, 3033-3036.	1.5	60

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91	Observed and model-calculated photostationary state at Mauna Loa Observatory during MLOPEX 2. Journal of Geophysical Research, 1996, 101, 14681-14696.	3.3	59
92	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. Photochemical and Photobiological Sciences, 2020, 19, 542-584.	1.6	59
93	Numerical integration errors in calculated tropospheric photodissociation rate coefficients. Journal of Atmospheric Chemistry, 1990, 10, 289-300.	1.4	55
94	Radiation amplification factors: Improved formulation accounts for large increases in ultraviolet radiation associated with Antarctic ozone depletion. Antarctic Research Series, 1994, , 39-42.	0.2	55
95	Photochemistry in the arctic free troposphere: NOx budget and the role of odd nitrogen reservoir recycling. Atmospheric Environment, 2003, 37, 3351-3364.	1.9	55
96	Kinetics and mechanism of the reaction of hydroxyl with benzene. The Journal of Physical Chemistry, 1985, 89, 3556-3561.	2.9	54
97	Vitamin D receptor polymorphisms and survival in patients with cutaneous melanoma: a population-based study. Carcinogenesis, 2016, 37, 30-38.	1.3	54
98	Observed and modelâ€calculated NO₂/NO ratios in tropospheric air sampled during the NASA GTE/CITEâ€2 field study. Journal of Geophysical Research, 1990, 95, 10235-10247.	3.3	53
99	Cloud impacts on UV spectral actinic flux observed during the International Photolysis Frequency Measurement and Model Intercomparison (IPMMI). Journal of Geophysical Research, 2003, 108, .	3.3	53
100	Analytic Formula for the Clearâ€sky UV Index. Photochemistry and Photobiology, 2007, 83, 1537-1538.	1.3	53
101	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere. Atmospheric Chemistry and Physics, 2012, 12, 10945-10955.	1.9	53
102	Changes in air quality and tropospheric composition due to depletion of stratospheric ozone and interactions with changing climate: implications for human and environmental health. Photochemical and Photobiological Sciences, 2014, 14, 149-169.	1.6	53
103	Biogenic volatile organic compound emissions in central Africa during the Experiment for the Regional Sources and Sinks of Oxidants (EXPRESSO) biomass burning season. Journal of Geophysical Research, 1999, 104, 30659-30671.	3.3	52
104	Photolysis frequency of NO2: Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). Journal of Geophysical Research, 2003, 108, .	3.3	52
105	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2015. Photochemical and Photobiological Sciences, 2016, 15, 141-174.	1.6	48
106	International Photolysis Frequency Measurement and Model Intercomparison (IPMMI): Spectral actinic solar flux measurements and modeling. Journal of Geophysical Research, 2003, 108, .	3.3	47
107	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. Photochemical and Photobiological Sciences, 2012, 11, 13-27.	1.6	47
108	Associations of Cumulative Sun Exposure and Phenotypic Characteristics with Histologic Solar Elastosis. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 2932-2941.	1.1	45

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109	Clinicopathologic Features of Incident and Subsequent Tumors in Patients with Multiple Primary Cutaneous Melanomas. Annals of Surgical Oncology, 2012, 19, 1024-1033.	0.7	45
110	Perspective on Mechanism Development and Structureâ€Activity Relationships for Gasâ€Phase Atmospheric Chemistry. International Journal of Chemical Kinetics, 2018, 50, 435-469.	1.0	45
111	Interactive effects of changing stratospheric ozone and climate on tropospheric composition and air quality, and the consequences for human and ecosystem health. Photochemical and Photobiological Sciences, 2019, 18, 775-803.	1.6	45
112	Possible causes for the 1990â€“1993 decrease in the global tropospheric co abundances: A three-dimensional sensitivity study. Atmospheric Environment, 1996, 30, 1673-1682.	1.9	44
113	Changes in air quality and tropospheric composition due to depletion of stratospheric ozone and interactions with climate. Photochemical and Photobiological Sciences, 2011, 10, 280-291.	1.6	43
114	Comparison of airborne measured and calculated spectral actinic flux and derived photolysis frequencies during the PEM Tropics B mission. Journal of Geophysical Research, 2003, 108, PEM 6-1.	3.3	42
115	Sensitivity of Biologically Active UV Radiation to Stratospheric Ozone Changes: Effects of Action Spectrum Shape and Wavelength RangeÂ¶. Photochemistry and Photobiology, 2003, 78, 456.	1.3	41
116	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. Photochemical and Photobiological Sciences, 2022, 21, 275-301.	1.6	40
117	Explicit modeling of volatile organic compounds partitioning in the atmospheric aqueous phase. Atmospheric Chemistry and Physics, 2013, 13, 1023-1037.	1.9	38
118	The Montreal Protocol protects the terrestrial carbon sink. Nature, 2021, 596, 384-388.	13.7	38
119	Observations of methyl nitrate in the lower stratosphere during STRAT: Implications for its gas phase production mechanisms. Geophysical Research Letters, 1998, 25, 1891-1894.	1.5	36
120	Photochemistry and budget of ozone during the Mauna Loa Observatory Photochemistry Experiment (MLOPEX 2). Journal of Geophysical Research, 1999, 104, 30275-30307.	3.3	36
121	Assessment of the reduction methods used to develop chemical schemes: building of a new chemical scheme for VOC oxidation suited to three-dimensional multiscale HO_x-NO_x-VOC chemistry simulations. Atmospheric Chemistry and Physics, 2005, 5, 2519-2538.	1.9	36
122	Inherited Genetic Variants Associated with Occurrence of Multiple Primary Melanoma. Cancer Epidemiology Biomarkers and Prevention, 2015, 24, 992-997.	1.1	36
123	HERBIVORE-INDUCED MONOTERPENE EMISSIONS FROM CONIFEROUS FORESTS: POTENTIAL IMPACT ON LOCAL TROPOSPHERIC CHEMISTRY. , 1999, 9, 1147-1159.		35
124	<scp>MITF</scp> E318K's effect on melanoma risk independent of, but modified by, other risk factors. Pigment Cell and Melanoma Research, 2014, 27, 485-488.	1.5	35
125	Measurement of the photodissociation coefficient of NO2 in the atmosphere: I. Method and surface measurements. Journal of Atmospheric Chemistry, 1983, 1, 3-25.	1.4	34
126	Episodic modeling of the chemical structure of the troposphere as revealed during the spring MLOPEX 2 intensive. Journal of Geophysical Research, 2000, 105, 26809-26839.	3.3	34

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127	Are current guidelines for sun protection optimal for health? Exploring the evidence. Photochemical and Photobiological Sciences, 2018, 17, 1956-1963.	1.6	34
128	Photolysis frequency of O3to O(1D): Measurements and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). Journal of Geophysical Research, 2004, 109, .	3.3	33
129	Characteristics of the NO-NO₂-O₃ system in different chemical regimes during the MIRAGE-Mex field campaign. Atmospheric Chemistry and Physics, 2008, 8, 7153-7164.	1.9	32
130	Ethanol and ozone. Nature Geoscience, 2014, 7, 395-397.	5.4	32
131	Measurement of the photodissociation coefficient of NO2 in the atmosphere: II, stratospheric measurements. Journal of Atmospheric Chemistry, 1985, 3, 233-245.	1.4	31
132	Photochemical modeling of OH levels during the First Aerosol Characterization Experiment (ACE 1). Journal of Geophysical Research, 1999, 104, 16041-16052.	3.3	30
133	Simultaneous retrievals of column ozone and aerosol optical properties from direct and diffuse solar irradiance measurements. Journal of Geophysical Research, 2005, 110, .	3.3	30
134	Relationship between photolysis frequencies derived from spectroscopic measurements of actinic fluxes and irradiances during the IPMMI campaign. Journal of Geophysical Research, 2002, 107, ACH 1-1-ACH 1-16.	3.3	29
135	Modeling the influence of alkane molecular structure on secondary organic aerosol formation. Faraday Discussions, 2013, 165, 105.	1.6	29
136	Multiday production of condensing organic aerosol mass in urban and forest outflow. Atmospheric Chemistry and Physics, 2015, 15, 595-615.	1.9	27
137	Actinic flux and photolysis in water droplets: Mie calculations and geometrical optics limit. Atmospheric Chemistry and Physics, 2004, 4, 2241-2250.	1.9	26
138	Ultraviolet actinic flux in clear and cloudy atmospheres: model calculations and aircraft-based measurements. Atmospheric Chemistry and Physics, 2011, 11, 5457-5469.	1.9	26
139	On the discrepancy of HCl processing in the core of the wintertime polar vortices. Atmospheric Chemistry and Physics, 2018, 18, 8647-8666.	1.9	26
140	Effect of marine boundary layer clouds on tropospheric chemistry as analyzed in a regional chemistry transport model. Journal of Geophysical Research, 2002, 107, AAC 7-1-AAC 7-12.	3.3	25
141	Long-range pollution transport during the MILAGRO-2006 campaign: a case study of a major Mexico City outflow event using free-floating altitude-controlled balloons. Atmospheric Chemistry and Physics, 2010, 10, 7137-7159.	1.9	25
142	The effect of temperature on soot formation in premixed flames. Combustion and Flame, 1985, 60, 203-213.	2.8	24
143	Exploration of the influence of environmental conditions on secondary organic aerosol formation and organic species properties using explicit simulations: development of the VBS-GECKO parameterization. Atmospheric Chemistry and Physics, 2018, 18, 13411-13428.	1.9	24
144	Ozone photolysis: Strong isotopologue/isotopomer selectivity in the stratosphere. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4286-4302.	1.2	23

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145	Variants in autophagyâ€related genes and clinical characteristics in melanoma: a populationâ€based study. Cancer Medicine, 2016, 5, 3336-3345.	1.3	23
146	Estimation of surface actinic flux from satellite (TOMS) ozone and cloud reflectivity measurements. Geophysical Research Letters, 1998, 25, 4321-4324.	1.5	22
147	On tropospheric chemical oscillations. Journal of Geophysical Research, 1997, 102, 15949-15965.	3.3	21
148	Three-dimensional modeling of transport of chemical species from continents to the Atlantic Ocean. Tellus, Series B: Chemical and Physical Meteorology, 1988, 40B, 358-379.	0.8	20
149	High Temperature Photochemistry (HTP): Kinetics and Mechanism Studies of Elementary Combustion Reactions over 300-1700 K. Combustion Science and Technology, 1986, 50, 135-150.	1.2	19
150	High-Latitude Springtime Photochemistry. Part Ii: Sensitivity Studies of Ozone Production. Journal of Atmospheric Chemistry, 1997, 27, 155-178.	1.4	19
151	Simulation of regional dust and its effect on photochemistry in the Mexico City area during MILAGRO experiment. Atmospheric Environment, 2011, 45, 2549-2558.	1.9	19
152	Effect of aerosols and NO₂ concentration on ultraviolet actinic flux near Mexico City during MILAGRO: measurements and model calculations. Atmospheric Chemistry and Physics, 2013, 13, 1011-1022.	1.9	19
153	Limited influence of dry deposition of semivolatile organic vapors on secondary organic aerosol formation in the urban plume. Geophysical Research Letters, 2013, 40, 3302-3307.	1.5	18
154	Characterization of oscillation and a period-doubling transition to chaos reflecting dynamic instability in a simplified model of tropospheric chemistry. Journal of Geophysical Research, 2001, 106, 7553-7565.	3.3	17
155	Response of Surface Ultraviolet and Visible Radiation to Stratospheric SO2 Injections. Atmosphere, 2018, 9, 432.	1.0	17
156	A Climatology of UV Radiation, 1979â€“2000, 65Sâ€“65N. , 2010, , 1-20.		17
157	Tropospheric Photochemistry and its Response to UV Changes. , 1993, , 437-461.		17
158	Oxidation kinetics of carbon blacks over 1300-1700 K. Energy & Fuels, 1988, 2, 743-750.	2.5	16
159	Improved albedo formulation for chemistry transport models based on satellite observations and assimilated snow data and its impact on tropospheric photochemistry. Journal of Geophysical Research, 2005, 110, .	3.3	16
160	The radiation equation. Nature, 1995, 377, 682-683.	13.7	15
161	Solar UV radiation and microbial life in the atmosphere. Photochemical and Photobiological Sciences, 2018, 17, 1918-1931.	1.6	15
162	High-temperature photochemistry. Measurements of the rate coefficient for atomic hydrogen + water .fwdarw. hydroxyl + molecular hydrogen from 1160 to 1390 K. The Journal of Physical Chemistry, 1984, 88, 1857-1860.	2.9	14

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163	Photochemistry in the Arctic Free Troposphere: Ozone Budget and Its Dependence on Nitrogen Oxides and the Production Rate of Free Radicals. Journal of Atmospheric Chemistry, 2004, 47, 107-138.	1.4	14
164	Application of an analytical formula for UV Index reconstructions for two locations in Southwestern Spain. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 1052.	0.8	13
165	The interaction between vitamin D receptor polymorphisms and sun exposure around time of diagnosis influences melanoma survival. Pigment Cell and Melanoma Research, 2018, 31, 287-296.	1.5	13
166	Direct measurements of the rate coefficient for the reaction OH+CH4 â†' CH3+H2O over 300-1500 K. Proceedings of the Combustion Institute, 1985, 20, 703-713.	0.3	11
167	Mechanism of nitrogen dioxide photodissociation in the energy-deficient region at 404.7 nm. The Journal of Physical Chemistry, 1987, 91, 6339-6341.	2.9	11
168	Dimensionalities of ozone attractors and their global distribution. Physica D: Nonlinear Phenomena, 1994, 76, 331-343.	1.3	11
169	Influence of Tropospheric Ozone Control on Exposure to Ultraviolet Radiation at the Surface. Environmental Science & Technology, 2011, 45, 6919-6923.	4.6	11
170	Comment on â€œRecord solar UV irradiance in the tropical Andes, by Cabrol et al.â€• Frontiers in Environmental Science, 2015, 3, .	1.5	11
171	Environmental effects of ozone depletion and its interactions with climate change: 2014 assessment : Executive summary. Photochemical and Photobiological Sciences, 2015, 14, 14-18.	1.6	11
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