William R Stockwell

List of Publications by Year
in descending order

75 papers	5,511 citations	126708 33 h-index	85405 71 g-index
77 all docs	77 docs citations	77 times ranked	3942 citing authors

#	Article	IF	Citations
1	Multi-Scale Atmospheric Emissions, Circulation and Meteorological Drivers of Ozone Episodes in El Paso-JuÃ¡rez Airshed. Atmosphere, 2021, 12, 1575.	1.0	8
2	A perspective on the development of gas-phase chemical mechanisms for Eulerian air quality models. Journal of the Air and Waste Management Association, 2020, 70, 44-70.	0.9	18
3	Intercomparison of Sonde, WRF/CAMx and Satellite Sounder Profile Data for the Paso Del Norte Region. Aerosol Science and Engineering, 2020, 4, 277-292.	1.1	3
4	An Improved Method for Optical Characterization of Mineral Dust and Soot Particles in the El Paso-JuÃ¡rez Airshed. Atmosphere, 2020, 11, 866.	1.0	1
5	Investigation of the Successive Ozone Episodes in the El Pasoâ€“Juarez Region in the Summer of 2017. Atmosphere, 2020, 11, 532.	1.0	13
6	Dominant volatile organic compounds (VOCs) measured at four Cannabis growing facilities: Pilot study results. Journal of the Air and Waste Management Association, 2019, 69, 1267-1276.	0.9	15
7	Projected changes in particulate matter concentrations in the South Coast Air Basin due to basin-wide reductions in nitrogen oxides, volatile organic compounds, and ammonia emissions. Journal of the Air and Waste Management Association, 2019, 69, 192-208.	0.9	12
8	Optical Characterization of Mineral Dust and Soot Particles in the El Paso-Juarez Airshed. Aerosol Science and Engineering, 2018, 2, 11-19.	1.1	5
9	Linking Air Quality and Human Health Effects Models: An Application to the Los Angeles Air Basin. Environmental Health Insights, 2017, 11, 117863021773755.	0.6	33
10	Absorption of Near UV Light by HNO₃/NO₃^{â€“} on Sapphire Surfaces. Journal of Physical Chemistry A, 2016, 120, 2877-2884.	1.1	12
11	Projected ozone trends and changes in the ozone-precursor relationship in the South Coast Air Basin in response to varying reductions of precursor emissions. Journal of the Air and Waste Management Association, 2016, 66, 201-214.	0.9	23
12	Spatiotemporal variations of air pollutants (O₃,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 T and Physics, 2015, 15, 10857-10885.	1.9	53
13	Meteorological controls on particle growth events in Beltsville, MD, USA during July 2011. Journal of Atmospheric Chemistry, 2015, 72, 423-440.	1.4	2
14	Nighttime air quality under desert conditions. Atmospheric Environment, 2015, 114, 102-111.	1.9	6
15	Impact of sulfur dioxide oxidation by Stabilized Criegee Intermediate on sulfate. Atmospheric Environment, 2014, 85, 204-214.	1.9	55
16	New indices for wet scavenging of air pollutants (O3, CO, NO2, SO2, and PM10) by summertime rain. Atmospheric Environment, 2014, 82, 226-237.	1.9	138
17	Differences in the variability of measured and simulated tropospheric ozone mixing ratios over the Paso del Norte Region. Journal of Atmospheric Chemistry, 2013, 70, 91-104.	1.4	5
18	Numerical simulation for a wind dust event in the US/Mexico border region. Air Quality, Atmosphere and Health, 2013, 6, 317-331.	1.5	9

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19	The regional atmospheric chemistry mechanism, version 2. Atmospheric Environment, 2013, 68, 174-185.	1.9	192
20	Multi-site tropospheric ozone measurements across the North Tropical Atlantic during the summer of 2010. Atmospheric Environment, 2013, 70, 131-148.	1.9	8
21	Past and future ozone trends in California's South Coast Air Basin: Reconciliation of ambient measurements with past and projected emission inventories. Journal of the Air and Waste Management Association, 2013, 63, 54-69.	0.9	39
22	A comparison of atmospheric composition using the Carbon Bond and Regional Atmospheric Chemistry Mechanisms. Atmospheric Chemistry and Physics, 2013, 13, 9695-9712.	1.9	44
23	A Review of Tropospheric Atmospheric Chemistry and Gas-Phase Chemical Mechanisms for Air Quality Modeling. Atmosphere, 2012, 3, 1-32.	1.0	71
24	Evaluation of simulated photochemical partitioning of oxidized nitrogen in the upper troposphere. Atmospheric Chemistry and Physics, 2011, 11, 275-291.	1.9	37
25	Photochemical Modeling in California with Two Chemical Mechanisms: Model Intercomparison and Response to Emission Reductions. Journal of the Air and Waste Management Association, 2011, 61, 559-572.	0.9	27
26	The impacts of reactive terpene emissions from plants on air quality in Las Vegas, Nevada. Atmospheric Environment, 2009, 43, 4109-4123.	1.9	75
27	Volatile organic compounds at a rural site in western Senegal. Journal of Atmospheric Chemistry, 2008, 60, 19-35.	1.4	13
28	An online coupled meteorological and air quality modeling study of the effect of complex terrain on the regional transport and transformation of air pollutants over the Western United States. Atmospheric Environment, 2008, 42, 4006-4021.	1.9	2
29	A hybrid model for ozone forecasting. Atmospheric Environment, 2008, 42, 7002-7012.	1.9	5
30	Sensitivity Modeling Study for an Ozone Occurrence during the 1996 Paso Del Norte Ozone Campaign. International Journal of Environmental Research and Public Health, 2008, 5, 181-203.	1.2	11
31	A Method to Determine the Spatial Resolution Required to Observe Air Quality From Space. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1308-1314.	2.7	16
32	Biogenic Hydrocarbon Chemistry within and Above a Mixed Deciduous Forest. Journal of Atmospheric Chemistry, 2007, 56, 165-185.	1.4	73
33	A comparison of photolysis rate parameters estimated from measured and simulated actinic flux for wintertime conditions at Storm Peak Laboratory, Colorado. Journal of Atmospheric Chemistry, 2007, 57, 59-71.	1.4	6
34	Trace gas exchange and gas phase chemistry in a Norway spruce forest: A study with a coupled 1-dimensional canopy atmospheric chemistry emission model. Atmospheric Environment, 2006, 40, 28-42.	1.9	91
35	Measurement of actinic flux and the calculation of photolysis rate parameters for the Central California Ozone Study. Atmospheric Environment, 2004, 38, 5169-5177.	1.9	17
36	Comparison of the EMEP, RADM2 and RACM Mechanisms. Journal of Atmospheric Chemistry, 2003, 44, 151-170.	1.4	51

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37	The Treasure Valley secondary aerosol study I: measurements and equilibrium modeling of inorganic secondary aerosols and precursors for southwestern Idaho. Atmospheric Environment, 2003, 37, 511-524.	1.9	24
38	The Treasure Valley secondary aerosol study II: modeling of the formation of inorganic secondary aerosols and precursors for southwestern Idaho. Atmospheric Environment, 2003, 37, 525-534.	1.9	33
39	Evolution of the Magnitude and Spatial Extent of the Weekend Ozone Effect in Californiaâ€™s South Coast Air Basin, 1981â€“2000. Journal of the Air and Waste Management Association, 2003, 53, 802-815.	0.9	104
40	Diurnal and Weekday Variations in the Source Contributions of Ozone Precursors in Californiaâ€™s South Coast Air Basin. Journal of the Air and Waste Management Association, 2003, 53, 844-863.	0.9	56
41	Comment on â€œSimulation of a reacting pollutant puff using an adaptive grid algorithmâ€•by R. K. Srivastava et al.. Journal of Geophysical Research, 2002, 107, ACH 18-1.	3.3	17
42	Chemical Mechanism Development: Laboratory Studies and Model Applications. Journal of Atmospheric Chemistry, 2002, 42, 323-357.	1.4	22
43	Chemical Mechanism Development: Laboratory Studies and Model Applications. , 2002, , 323-357.		4
44	Observations of reactive oxidized nitrogen and speciation of NOyduring the PROPHET summer 1998 intensive. Journal of Geophysical Research, 2001, 106, 24359-24386.	3.3	66
45	A study of formaldehyde chemistry above a forest canopy. Journal of Geophysical Research, 2001, 106, 24387-24405.	3.3	73
46	A phase-space method for arbitrary bimolecular gas-phase reactions: Theoretical description. International Journal of Quantum Chemistry, 2001, 84, 479-492.	1.0	8
47	A phase-space method for arbitrary bimolecular gas-phase reactions: Application to the CH3CHO+HO and CH3OOH+HO reactions. International Journal of Quantum Chemistry, 2001, 84, 493-512.	1.0	8
48	Scenarios for Modeling Multiphase Tropospheric Chemistry. Journal of Atmospheric Chemistry, 2001, 40, 77-86.	1.4	18
49	Estimation of incremental reactivities for multiple day scenarios: an application to ethane and dimethyoxymethane. Atmospheric Environment, 2001, 35, 929-939.	1.9	8
50	The ammonium nitrate particle equivalent of NOx emissions for wintertime conditions in Central California's San Joaquin Valley. Atmospheric Environment, 2000, 34, 4711-4717.	1.9	66
51	Application of a multiscale, coupled MM5/chemistry model to the complex terrain of the VOTALP valley campaign. Atmospheric Environment, 2000, 34, 1435-1453.	1.9	188
52	NOx or VOC Limitation in East German Ozone Plumes?. Journal of Atmospheric Chemistry, 2000, 35, 1-18.	1.4	13
53	First-order sensitivity analysis of models with time-dependent parameters: an application to PAN and ozone. Atmospheric Environment, 1999, 33, 2941-2953.	1.9	45
54	Kinetics and atmospheric implications of peroxy radical cross reactions involving the CH3C(O)O2radical. Journal of Geophysical Research, 1998, 103, 25273-25285.	3.3	36

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55	A new mechanism for regional atmospheric chemistry modeling. Journal of Geophysical Research, 1997, 102, 25847-25879.	3.3	883
56	The influence of aqueous-phase chemical reactions on ozone formation in polluted and nonpolluted clouds. Atmospheric Environment, 1997, 31, 1221-1237.	1.9	88
57	Effect of Chemical Product Yield Uncertainties on Reactivities of VOCs and Emissions from Reformulated Gasolines and Methanol Fuels. Environmental Science & Technology, 1996, 30, 1392-1397.	4.6	18
58	Effect of peroxy radical reactions on the predicted concentrations of ozone, nitrogenous compounds, and radicals. Journal of Geophysical Research, 1996, 101, 21007-21022.	3.3	85
59	Effects of turbulence on gas-phase atmospheric chemistry: Calculation of the relationship between time scales for diffusion and chemical reaction. Meteorology and Atmospheric Physics, 1995, 57, 159-171.	0.9	32
60	Uncertainties in Incremental Reactivities of Volatile Organic Compounds. Environmental Science & Technology, 1995, 29, 1336-1345.	4.6	46
61	On the HO2+ HO2reaction: Its misapplication in atmospheric chemistry models. Journal of Geophysical Research, 1995, 100, 11695.	3.3	88
62	The effect of gas-phase chemistry on aqueous-phase sulfur dioxide oxidation rates. Journal of Atmospheric Chemistry, 1994, 19, 317-329.	1.4	24
63	Communication concerning ?the role of clouds in tropospheric photochemistry? by Lelieveld and Crutzen. Journal of Atmospheric Chemistry, 1994, 18, 397-399.	1.4	6
64	Aggregation and analysis of volatile organic compound emissions for regional modeling. Atmospheric Environment Part A General Topics, 1990, 24, 1107-1133.	1.3	213
65	The second generation regional acid deposition model chemical mechanism for regional air quality modeling. Journal of Geophysical Research, 1990, 95, 16343-16367.	3.3	981
66	Theoretical estimates of the dynamic, radiative and chemical effects of clouds on tropospheric trace gases. Atmospheric Research, 1990, 25, 53-69.	1.8	20
67	Nonlinear coupling in the NOx-SOx reactive organic system. Atmospheric Environment, 1988, 22, 2481-2490.	1.1	21
68	A homogeneous gas phase mechanism for use in a regional acid deposition model. Atmospheric Environment, 1986, 20, 1615-1632.	1.1	159
69	Some Considerations of the Important Chemical Processes in Acid Deposition. , 1986, , 615-647.		5
70	Kinetic study of the nitrate free radical (NO3)-formaldehyde reaction and its possible role in nighttime tropospheric chemistry. The Journal of Physical Chemistry, 1985, 89, 139-146.	2.9	91
71	The mechanism of the HO-SO2 reaction. Atmospheric Environment, 1983, 17, 2231-2235.	1.1	326
72	Acid generation in the troposphere by gas-phase chemistry. Environmental Science & Technology, 1983, 17, 428A-443A.	4.6	210

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73	The mechanism of NO₃ and HONO formation in the nighttime chemistry of the urban atmosphere. Journal of Geophysical Research, 1983, 88, 6673-6682.	3.3	99
74	Deviations from the O3â€“NOâ€“NO2 photostationary state in tropospheric chemistry. Canadian Journal of Chemistry, 1983, 61, 983-992.	0.6	54
75	The near ultraviolet absorption spectrum of gaseous HONO and N2O3. Journal of Photochemistry and Photobiology, 1978, 8, 193-203.	0.6	83