

Shawn J Roselle

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,714
citations

279798

23
h-index

302126

39
g-index

53
all docs

53
docs citations

53
times ranked

2758
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelsâ€³ Community Multiscale Air Quality (CMAQ) model aerosol component 1. Model description. Journal of Geophysical Research, 2003, 108, .	3.3	687
2	Description and evaluation of the Community Multiscale Air Quality (CMAQ) modeling system version 5.1. Geoscientific Model Development, 2017, 10, 1703-1732.	3.6	187
3	CMAQ Model Performance Enhanced When In-Cloud Secondary Organic Aerosol is Included: Comparisons of Organic Carbon Predictions with Measurements. Environmental Science & Technology, 2008, 42, 8798-8802.	10.0	183
4	Evaluation of the community multiscale air quality (CMAQ) model version 4.5: Sensitivities impacting model performance; Part IIâ€”particulate matter. Atmospheric Environment, 2008, 42, 6057-6066.	4.1	125
5	The Community Multiscale Air Quality (CMAQ) model versions 5.3 and 5.3.1: system updates and evaluation. Geoscientific Model Development, 2021, 14, 2867-2897.	3.6	114
6	An assessment of the ability of three-dimensional air quality models with current thermodynamic equilibrium models to predict aerosol NO ₃ ⁻ . Journal of Geophysical Research, 2005, 110, .	3.3	113
7	Seasonal NH ₃ emission estimates for the eastern United States based on ammonium wet concentrations and an inverse modeling method. Journal of Geophysical Research, 2003, 108, .	3.3	110
8	A comparison of CMAQ HONO predictions with observations from the Northeast Oxidant and Particle Study. Atmospheric Environment, 2008, 42, 5760-5770.	4.1	105
9	Examination of the Community Multiscale Air Quality (CMAQ) model performance over the North American and European domains. Atmospheric Environment, 2012, 53, 142-155.	4.1	89
10	Potential impacts of two SO ₂ oxidation pathways on regional sulfate concentrations: Aqueous-phase oxidation by NO ₂ and gas-phase oxidation by Stabilized Criegee Intermediates. Atmospheric Environment, 2013, 68, 186-197.	4.1	87
11	Modelsâ€³ Community Multiscale Air Quality (CMAQ) model aerosol component 2. Model evaluation. Journal of Geophysical Research, 2003, 108, .	3.3	84
12	Extending the Community Multiscale Air Quality (CMAQ) modeling system to hemispheric scales: overview of process considerations and initial applications. Atmospheric Chemistry and Physics, 2017, 17, 12449-12474.	4.9	83
13	Long-term trends in total inorganic nitrogen and sulfur deposition in the US from 1990 to 2010. Atmospheric Chemistry and Physics, 2018, 18, 9091-9106.	4.9	74
14	Trace gas/aerosol boundary concentrations and their impacts on continental-scale AQMEII modeling domains. Atmospheric Environment, 2012, 53, 38-50.	4.1	72
15	The sensitivity of regional ozone modeling to biogenic hydrocarbons. Journal of Geophysical Research, 1991, 96, 7371-7394.	3.3	71
16	Annual application and evaluation of the online coupled WRFâ€³CMAQ system over North America under AQMEII phase 2. Atmospheric Environment, 2015, 115, 683-694.	4.1	61
17	Long-term trends in the ambient PM _{2.5} - and O ₃ -related mortality burdens in the United States under emission reductions from 1990 to 2010. Atmospheric Chemistry and Physics, 2018, 18, 15003-15016.	4.9	56
18	Effects of biogenic emission uncertainties on regional photochemical modeling of control strategies. Atmospheric Environment, 1994, 28, 1757-1772.	4.1	51

#	ARTICLE	IF	CITATIONS
19	Impacts of different characterizations of large-scale background on simulated regional-scale ozone over the continental United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3839-3864.	4.9	45
20	Dynamic evaluation of CMAQ part I: Separating the effects of changing emissions and changing meteorology on ozone levels between 2002 and 2005 in the eastern US. <i>Atmospheric Environment</i> , 2015, 103, 247-255.	4.1	42
21	Modeled response of photochemical oxidants to systematic reductions in anthropogenic volatile organic compound and NO _x emissions. <i>Journal of Geophysical Research</i> , 1995, 100, 22929.	3.3	38
22	Correcting photolysis rates on the basis of satellite observed clouds. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
23	Multiscale Air Quality Simulation Platform (MAQSIP): Initial applications and performance for tropospheric ozone and particulate matter. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	31
24	Evaluation of the Community Multiscale Air Quality Model for Simulating Winter Ozone Formation in the Uinta Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13545-13572.	3.3	20
25	Overview and Evaluation of the Community Multiscale Air Quality (CMAQ) Modeling System Version 5.2. <i>Springer Proceedings in Complexity</i> , 2018, , 69-73.	0.3	19
26	Examining single-source secondary impacts estimated from brute-force, decoupled direct method, and advanced plume treatment approaches. <i>Atmospheric Environment</i> , 2015, 111, 10-19.	4.1	18
27	Simulating lightning NO production in CMAQv5.2: performance evaluations. <i>Geoscientific Model Development</i> , 2019, 12, 4409-4424.	3.6	18
28	Persistence of initial conditions in continental scale air quality simulations. <i>Atmospheric Environment</i> , 2017, 160, 36-45.	4.1	14
29	Unexpected air quality impacts from implementation of green infrastructure in urban environments: A Kansas City case study. <i>Science of the Total Environment</i> , 2020, 744, 140960.	8.0	12
30	Diagnostic Analysis of the Three-Dimensional Sulfur Distributions over the Eastern United States Using the CMAQ Model and Measurements from the ICARTT Field Experiment. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008, , 496-504.	0.1	9
31	Representing the Effects of Long-Range Transport and Lateral Boundary Conditions in Regional Air Pollution Models. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 303-308.	0.2	9
32	Investigating the impact on modeled ozone concentrations using meteorological fields from WRF with an updated four-dimensional data assimilation approach. <i>Atmospheric Pollution Research</i> , 2015, 6, 305-311.	3.8	8
33	Extending the Applicability of the Community Multiscale Air Quality Model to Hemispheric Scales: Motivation, Challenges, and Progress. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 175-179.	0.2	8
34	Attributing differences in the fate of lateral boundary ozone in AQMEII3 models to physical process representations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17157-17175.	4.9	5
35	Assimilation of Satellite Data in Regional Air Quality Models. , 1998, , 25-35.		5
36	Developing Seasonal Ammonia Emission Estimates with an Inverse Modeling Technique. <i>Scientific World Journal</i> , The, 2001, 1, 356-362.	2.1	2

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37	High Time-Resolved Comparisons for In-Depth Probing of CMAQ Fine-Particle and Gas Predictions. , 2007, , 515-524.		2
38	Global and Regional Modeling of Long-Range Transport and Intercontinental Source-Receptor Linkages. Springer Proceedings in Complexity, 2016, , 245-250.	0.3	1
39	Modeling Atmospheric Particulate Matter in an Air Quality Modeling System Using a Modal Method. The IMA Volumes in Mathematics and Its Applications, 2002, , 299-307.	0.5	1
40	Performance Summary of the 2006 Community Multiscale Air Quality (CMAQ) Simulation for the AQMEII Project: North American Application. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 505-511.	0.2	1
41	Examination of the Efficacy of Voc and NOx Emissions Reductions on Ozone Improvement in the New York Metropolitan Area. , 1994, , 559-568.		1
42	Evaluation of predicted visual range using the community multiscale air quality modeling system. Journal of Aerosol Science, 2000, 31, 49.	3.8	0
43	Dynamic Evaluation of the CMAQv5.0 Modeling System: Assessing the Model's Ability to Simulate Ozone Changes Due to NOx Emission Reductions. Springer Proceedings in Complexity, 2014, , 433-438.	0.3	0
44	Influence of Boundary Conditions on Regional Air Quality Simulations—Analysis of AQMEII Phase 3 Results. Springer Proceedings in Complexity, 2018, , 393-399.	0.3	0
45	On the Relationship Between Observed NLDN Lightning Strikes and Modeled Convective Precipitation Rates: Parameterization of Lightning NOx Production in CMAQ. Springer Proceedings in Complexity, 2018, , 413-419.	0.3	0