

Shawn J Roselle

List of Publications by Year in descending order

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45
papers

2,714
citations

279798

23
h-index

302126

39
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all docs

53
docs citations

53
times ranked

2758
citing authors

#	ARTICLE	IF	CITATIONS
1	The Community Multiscale Air Quality (CMAQ) model versions 5.3 and 5.3.1: system updates and evaluation. <i>Geoscientific Model Development</i> , 2021, 14, 2867-2897.	3.6	114
2	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
3	Simulating lightning NO production in CMAQv5.2: performance evaluations. <i>Geoscientific Model Development</i> , 2019, 12, 4409-4424.	3.6	18
4	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
5	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
6	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. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15003-15016.	4.9	56
7	Long-term trends in total inorganic nitrogen and sulfur deposition in the US from 1990 to 2010. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9091-9106.	4.9	74
8	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
9	Influence of Boundary Conditions on Regional Air Quality Simulations—Analysis of AQMEII Phase 3 Results. <i>Springer Proceedings in Complexity</i> , 2018, , 393-399.	0.3	0
10	On the Relationship Between Observed NLDN Lightning Strikes and Modeled Convective Precipitation Rates: Parameterization of Lightning NO _x Production in CMAQ. <i>Springer Proceedings in Complexity</i> , 2018, , 413-419.	0.3	0
11	Persistence of initial conditions in continental scale air quality simulations. <i>Atmospheric Environment</i> , 2017, 160, 36-45.	4.1	14
12	Extending the Community Multiscale Air Quality (CMAQ) modeling system to hemispheric scales: overview of process considerations and initial applications. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12449-12474.	4.9	83
13	Description and evaluation of the Community Multiscale Air Quality (CMAQ) modeling system version 5.1. <i>Geoscientific Model Development</i> , 2017, 10, 1703-1732.	3.6	187
14	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
15	Global and Regional Modeling of Long-Range Transport and Intercontinental Source-Receptor Linkages. <i>Springer Proceedings in Complexity</i> , 2016, , 245-250.	0.3	1
16	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
17	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
18	Annual application and evaluation of the online coupled WRF-CMAQ system over North America under AQMEII phase 2. <i>Atmospheric Environment</i> , 2015, 115, 683-694.	4.1	61

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19	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
20	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
21	Dynamic Evaluation of the CMAQv5.0 Modeling System: Assessing the Model's Ability to Simulate Ozone Changes Due to NO _x Emission Reductions. <i>Springer Proceedings in Complexity</i> , 2014, , 433-438.	0.3	0
22	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. <i>Atmospheric Environment</i> , 2013, 68, 186-197.	4.1	87
23	Trace gas/aerosol boundary concentrations and their impacts on continental-scale AQMEII modeling domains. <i>Atmospheric Environment</i> , 2012, 53, 38-50.	4.1	72
24	Examination of the Community Multiscale Air Quality (CMAQ) model performance over the North American and European domains. <i>Atmospheric Environment</i> , 2012, 53, 142-155.	4.1	89
25	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
26	Performance Summary of the 2006 Community Multiscale Air Quality (CMAQ) Simulation for the AQMEII Project: North American Application. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 505-511.	0.2	1
27	A comparison of CMAQ HONO predictions with observations from the Northeast Oxidant and Particle Study. <i>Atmospheric Environment</i> , 2008, 42, 5760-5770.	4.1	105
28	Evaluation of the community multiscale air quality (CMAQ) model version 4.5: Sensitivities impacting model performance; Part II—particulate matter. <i>Atmospheric Environment</i> , 2008, 42, 6057-6066.	4.1	125
29	CMAQ Model Performance Enhanced When In-Cloud Secondary Organic Aerosol is Included: Comparisons of Organic Carbon Predictions with Measurements. <i>Environmental Science & Technology</i> , 2008, 42, 8798-8802.	10.0	183
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	Correcting photolysis rates on the basis of satellite observed clouds. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
32	High Time-Resolved Comparisons for In-Depth Probing of CMAQ Fine-Particle and Gas Predictions. , 2007, , 515-524.		2
33	An assessment of the ability of three-dimensional air quality models with current thermodynamic equilibrium models to predict aerosol NO ₃ . <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	113
34	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
35	Model's Community Multiscale Air Quality (CMAQ) model aerosol component 1. Model description. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	687
36	Model's Community Multiscale Air Quality (CMAQ) model aerosol component 2. Model evaluation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	84

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37	Seasonal NH ₃ emission estimates for the eastern United States based on ammonium wet concentrations and an inverse modeling method. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	110
38	Modeling Atmospheric Particulate Matter in an Air Quality Modeling System Using a Modal Method. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2002, , 299-307.	0.5	1
39	Developing Seasonal Ammonia Emission Estimates with an Inverse Modeling Technique. <i>Scientific World Journal</i> , The, 2001, 1, 356-362.	2.1	2
40	Evaluation of predicted visual range using the community multiscale air quality modeling system. <i>Journal of Aerosol Science</i> , 2000, 31, 49.	3.8	0
41	Assimilation of Satellite Data in Regional Air Quality Models. , 1998, , 25-35.		5
42	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
43	Effects of biogenic emission uncertainties on regional photochemical modeling of control strategies. <i>Atmospheric Environment</i> , 1994, 28, 1757-1772.	4.1	51
44	Examination of the Efficacy of Voc and NO _x Emissions Reductions on Ozone Improvement in the New York Metropolitan Area. , 1994, , 559-568.		1
45	The sensitivity of regional ozone modeling to biogenic hydrocarbons. <i>Journal of Geophysical Research</i> , 1991, 96, 7371-7394.	3.3	71