

# George A Pouliot

## List of Publications by Year in descending order

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65  
papers

5,472  
citations

101543

36  
h-index

118850

62  
g-index

83  
all docs

83  
docs citations

83  
times ranked

5074  
citing authors

#	ARTICLE	IF	CITATIONS
1	HTAP_v2.2: a mosaic of regional and global emission grid maps for 2008 and 2010 to study hemispheric transport of air pollution. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11411-11432.	4.9	647
2	Model Representation of Secondary Organic Aerosol in CMAQv4.7. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8553-8560.	10.0	364
3	To What Extent Can Biogenic SOA be Controlled?. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3376-3380.	10.0	254
4	Emissions Inventory of PM <sub>2.5</sub> Trace Elements across the United States. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5790-5796.	10.0	237
5	Unspeciated organic emissions from combustion sources and their influence on the secondary organic aerosol budget in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10473-10478.	7.1	196
6	WRF-CMAQ two-way coupled system with aerosol feedback: software development and preliminary results. <i>Geoscientific Model Development</i> , 2012, 5, 299-312.	3.6	193
7	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
8	The health impacts and economic value of wildland fire episodes in the U.S.: 2008–2012. <i>Science of the Total Environment</i> , 2018, 610-611, 802-809.	8.0	184
9	Evaluation of dust and trace metal estimates from the Community Multiscale Air Quality (CMAQ) model version 5.0. <i>Geoscientific Model Development</i> , 2013, 6, 883-899.	3.6	182
10	Observations and modeling of air quality trends over 1990–2010 across the Northern Hemisphere: China, the United States and Europe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2723-2747.	4.9	178
11	Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part I: Ozone. <i>Atmospheric Environment</i> , 2015, 115, 404-420.	4.1	168
12	Comparing emission inventories and model-ready emission datasets between Europe and North America for the AQMEII project. <i>Atmospheric Environment</i> , 2012, 53, 4-14.	4.1	156
13	Historical gaseous and primary aerosol emissions in the United States from 1990 to 2010. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7531-7549.	4.9	148
14	Linking the Eta Model with the Community Multiscale Air Quality (CMAQ) Modeling System to Build a National Air Quality Forecasting System. <i>Weather and Forecasting</i> , 2005, 20, 367-384.	1.4	143
15	The development and uses of EPA's SPECIATE database. <i>Atmospheric Pollution Research</i> , 2010, 1, 196-206.	3.8	136
16	Evaluation of operational online-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part II: Particulate matter. <i>Atmospheric Environment</i> , 2015, 115, 421-441.	4.1	133
17	Community Vulnerability to Health Impacts of Wildland Fire Smoke Exposure. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6674-6682.	10.0	126
18	Regional sources of atmospheric formaldehyde and acetaldehyde, and implications for atmospheric modeling. <i>Atmospheric Environment</i> , 2012, 47, 477-490.	4.1	114

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19	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
20	Analysis of the emission inventories and model-ready emission datasets of Europe and North America for phase 2 of the AQMEII project. <i>Atmospheric Environment</i> , 2015, 115, 345-360.	4.1	100
21	Contribution of regional-scale fire events to ozone and PM <sub>2.5</sub> air quality estimated by photochemical modeling approaches. <i>Atmospheric Environment</i> , 2016, 140, 539-554.	4.1	95
22	Modeling the Role of Alkanes, Polycyclic Aromatic Hydrocarbons, and Their Oligomers in Secondary Organic Aerosol Formation. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6041-6047.	10.0	89
23	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
24	Evaluation of real-time PM <sub>2.5</sub> forecasts and process analysis for PM <sub>2.5</sub> formation over the eastern United States using the Eta-CMAQ forecast model during the 2004 ICARTT study. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
25	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. <i>Environmental Fluid Mechanics</i> , 2009, 9, 43-58.	1.6	72
26	A performance evaluation of the National Air Quality Forecast Capability for the summer of 2007. <i>Atmospheric Environment</i> , 2009, 43, 2312-2320.	4.1	69
27	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
28	Assessment of the MACC reanalysis and its influence as chemical boundary conditions for regional air quality modeling in AQMEII-2. <i>Atmospheric Environment</i> , 2015, 115, 371-388.	4.1	59
29	Eta-CMAQ air quality forecasts for O <sub>3</sub> and related species using three different photochemical mechanisms (CB4, CB05, SAPRC-99): comparisons with measurements during the 2004 ICARTT study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3001-3025.	4.9	55
30	Diagnostic Model Evaluation for Carbonaceous PM <sub>2.5</sub> Using Organic Markers Measured in the Southeastern U.S.. <i>Environmental Science &amp; Technology</i> , 2007, 41, 1577-1583.	10.0	53
31	Modeling emissions for three-dimensional atmospheric chemistry transport models. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 763-800.	1.9	51
32	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
33	Assessing multi-year changes in modeled and observed urban NO <sub>x</sub> concentrations from a dynamic model evaluation perspective. <i>Atmospheric Environment</i> , 2010, 44, 2894-2901.	4.1	44
34	A comparison of atmospheric composition using the Carbon Bond and Regional Atmospheric Chemistry Mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9695-9712.	4.9	44
35	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
36	Development of the crop residue and rangeland burning in the 2014 National Emissions Inventory using information from multiple sources. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 613-622.	1.9	37

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37	A multi-model assessment for the 2006 and 2010 simulations under the Air Quality Model Evaluation International Initiative (AQMEII) phase 2 over North America: Part I. Indicators of the sensitivity of O <sub>3</sub> and PM <sub>2.5</sub> formation regimes. <i>Atmospheric Environment</i> , 2015, 115, 569-586.	4.1	36
38	Modeling crop residue burning experiments to evaluate smoke emissions and plume transport. <i>Science of the Total Environment</i> , 2018, 627, 523-533.	8.0	36
39	Assessment of the effects of horizontal grid resolution on long-term air quality trends using coupled WRF-CMAQ simulations. <i>Atmospheric Environment</i> , 2016, 132, 207-216.	4.1	35
40	Influence of uncertainties in burned area estimates on modeled wildland fire PM <sub>2.5</sub> and ozone pollution in the contiguous U.S.. <i>Atmospheric Environment</i> , 2018, 191, 328-339.	4.1	35
41	The impact of US wildland fires on ozone and particulate matter: a comparison of measurements and CMAQ model predictions from 2008 to 2012. <i>International Journal of Wildland Fire</i> , 2018, 27, 684.	2.4	30
42	Comparative evaluation of the impact of WRF/NMM and WRF/ARW meteorology on CMAQ simulations for PM <sub>2.5</sub> and its related precursors during the 2006 TexAQS/GoMACCS study. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4091-4106.	4.9	27
43	A multi-model assessment for the 2006 and 2010 simulations under the Air Quality Model Evaluation International Initiative (AQMEII) Phase 2 over North America: Part II. Evaluation of column variable predictions using satellite data. <i>Atmospheric Environment</i> , 2015, 115, 587-603.	4.1	25
44	Vegetation exposure to ozone over the continental United States: Assessment of exposure indices by the Eta-CMAQ air quality forecast model. <i>Atmospheric Environment</i> , 2009, 43, 724-733.	4.1	24
45	Predicting the Effects of Nanoscale Cerium Additives in Diesel Fuel on Regional-Scale Air Quality. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12775-12782.	10.0	24
46	Significant ground-level ozone attributed to lightning-induced nitrogen oxides during summertime over the Mountain West States. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, 6.	6.8	22
47	Comparative evaluation of the impact of WRF-NMM and WRF-ARW meteorology on CMAQ simulations for O <sub>3</sub> and related species during the 2006 TexAQS/GoMACCS campaign. <i>Atmospheric Pollution Research</i> , 2012, 3, 149-162.	3.8	20
48	The Detailed Emissions Scaling, Isolation, and Diagnostic (DESID) module in the Community Multiscale Air Quality (CMAQ) modeling system version 5.3.2. <i>Geoscientific Model Development</i> , 2021, 14, 3407-3420.	3.6	20
49	Assessing satellite-based fire data for use in the National Emissions Inventory. <i>Journal of Applied Remote Sensing</i> , 2009, 3, 031504.	1.3	19
50	Refining fire emissions for air quality modeling with remotely sensed fire counts: A wildfire case study. <i>Atmospheric Environment</i> , 2007, 41, 655-665.	4.1	17
51	Quantification of emission factor uncertainty. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 287-298.	1.9	17
52	Impact of wildfire on particulate matter in the southeastern United States in November 2016. <i>Science of the Total Environment</i> , 2020, 724, 138354.	8.0	17
53	Performance Evaluation of the Meteorology and Air Quality Conditions From Multiscale WRF-CMAQ Simulations for the Long Island Sound Tropospheric Ozone Study (LISTOS). <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	16
54	Development of a biomass burning emissions inventory by combining satellite and ground-based information. <i>Journal of Applied Remote Sensing</i> , 2008, 2, 021501.	1.3	13

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55	Source-receptor reconciliation of fine-particulate emissions from residential wood combustion in the southeastern United States. <i>Atmospheric Environment</i> , 2014, 98, 454-460.	4.1	12
56	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
57	Reflecting on progress since the 2005 NARSTO emissions inventory report. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 1023-1048.	1.9	8
58	An evaluation of empirical and statistically based smoke plume injection height parametrisations used within air quality models. <i>International Journal of Wildland Fire</i> , 2022, 31, 193-211.	2.4	7
59	Diagnostic Air Quality Model Evaluation of Source-Specific Primary and Secondary Fine Particulate Carbon. <i>Environmental Science &amp; Technology</i> , 2014, 48, 464-473.	10.0	6
60	Assessing the Anthropogenic Fugitive Dust Emission Inventory and Temporal Allocation Using an Updated Speciation of Particulate Matter. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 585-589.	0.2	4
61	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
62	A Proof-of-Concept for Linking the Global Meteorological Model, MPAS-a with the Air Quality Model, CMAQ. <i>Springer Proceedings in Complexity</i> , 2020, , 35-40.	0.3	1
63	Dynamic Evaluation of the CMAQv5.0 Modeling System: Assessing the Model's Ability to Simulate Ozone Changes Due to NOx Emission Reductions. <i>Springer Proceedings in Complexity</i> , 2014, , 433-438.	0.3	0
64	Development of Fire Emissions Inventory Using Satellite Data. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008, , 217-225.	0.1	0
65	The New Generation of Air Quality Modeling Systems. <i>Em: Air and Waste Management Association's Magazine for Environmental Managers</i> , 2018, 1, 1-6.	0.2	0