

# Michael D Moran

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,331  
citations

361413

20  
h-index

395702

33  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1932  
citing authors

#	ARTICLE	IF	CITATIONS
1	A global catalogue of large SO <sub>2</sub> sources and emissions derived from the Ozone Monitoring Instrument. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11497-11519.	4.9	200
2	Cloud processing of gases and aerosols in a regional air quality model (AURAMS). <i>Atmospheric Research</i> , 2006, 82, 248-275.	4.1	124
3	Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations. <i>Atmospheric Environment</i> , 2012, 53, 15-37.	4.1	111
4	Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3756-E3765.	7.1	75
5	The FireWork air quality forecast system with near-real-time biomass burning emissions: Recent developments and evaluation of performance for the 2015 North American wildfire season. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 819-841.	1.9	65
6	Estimates of exceedances of critical loads for acidifying deposition in Alberta and Saskatchewan. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9897-9927.	4.9	62
7	Review and uncertainty assessment of size-resolved scavenging coefficient formulations for below-cloud snow scavenging of atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10005-10025.	4.9	58
8	Development of a new semi-empirical parameterization for below-cloud scavenging of size-resolved aerosol particles by both rain and snow. <i>Geoscientific Model Development</i> , 2014, 7, 799-819.	3.6	53
9	Eight-Year Estimates of Methane Emissions from Oil and Gas Operations in Western Canada Are Nearly Twice Those Reported in Inventories. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14899-14909.	10.0	52
10	Evaluating the capability of regional-scale air quality models to capture the vertical distribution of pollutants. <i>Geoscientific Model Development</i> , 2013, 6, 791-818.	3.6	49
11	Ammonia measurements from space with the Cross-track Infrared Sounder: characteristics and applications. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2277-2302.	4.9	47
12	Emissions preparation and analysis for multiscale air quality modeling over the Athabasca Oil Sands Region of Alberta, Canada. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10459-10481.	4.9	40
13	Multi-Year (2013–2016) PM <sub>2.5</sub> Wildfire Pollution Exposure over North America as Determined from Operational Air Quality Forecasts. <i>Atmosphere</i> , 2017, 8, 179.	2.3	39
14	PAH concentrations simulated with the AURAMS-PAH chemical transport model over Canada and the USA. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4065-4077.	4.9	33
15	Blending forest fire smoke forecasts with observed data can improve their utility for public health applications. <i>Atmospheric Environment</i> , 2016, 145, 308-317.	4.1	33
16	A chemical transport model study of plume-rise and particle size distribution for the Athabasca oil sands. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8667-8688.	4.9	33
17	The FireWork v2.0 air quality forecast system with biomass burning emissions from the Canadian Forest Fire Emissions Prediction System v2.03. <i>Geoscientific Model Development</i> , 2019, 12, 3283-3310.	3.6	32
18	Improvements to Wintertime Particulate-Matter Forecasting With GEM-MACH15. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 591-597.	0.2	29

#	ARTICLE	IF	CITATIONS
19	Impact of chemical lateral boundary conditions in a regional air quality forecast model on surface ozone predictions during stratospheric intrusions. <i>Atmospheric Environment</i> , 2018, 174, 148-170.	4.1	25
20	Methane emissions in the United States, Canada, and Mexico: evaluation of national methane emission inventories and 2010–2017 sectoral trends by inverse analysis of in situ (GLOBALVIEWplus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 395-418.	4.9	25
21	Chemical Analysis of Surface-Level Ozone Exceedances during the 2015 Pan American Games. <i>Atmosphere</i> , 2020, 11, 572.	2.3	18
22	Isolating the impact of COVID-19 lockdown measures on urban air quality in Canada. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1549-1570.	3.3	17
23	Turbulent transport, emissions and the role of compensating errors in chemical transport models. <i>Geoscientific Model Development</i> , 2014, 7, 1001-1024.	3.6	16
24	High-resolution quantification of atmospheric CO <sub>2</sub> mixing ratios in the Greater Toronto Area, Canada. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3387-3401.	4.9	12
25	Impact of Urbanization on the Predictions of Urban Meteorology and Air Pollutants over Four Major North American Cities. <i>Atmosphere</i> , 2020, 11, 969.	2.3	12
26	Modeling atmospheric ammonia and ammonium using a stochastic Lagrangian air quality model (STILT-Chem v0.7). <i>Geoscientific Model Development</i> , 2013, 6, 327-344.	3.6	11
27	A gridded inventory of Canada's anthropogenic methane emissions. <i>Environmental Research Letters</i> , 2022, 17, 014007.	5.2	11
28	An evaluation of the efficacy of very high resolution air-quality modelling over the Athabasca oil sands region, Alberta, Canada. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4393-4417.	4.9	9
29	An evaluation of ambient ammonia concentrations over southern Ontario simulated with different dry deposition schemes within STILT-Chem v0.8. <i>Geoscientific Model Development</i> , 2014, 7, 1037-1050.	3.6	8
30	Top-Down Determination of Black Carbon Emissions from Oil Sand Facilities in Alberta, Canada Using Aircraft Measurements. <i>Environmental Science &amp; Technology</i> , 2020, 54, 412-418.	10.0	7
31	Development of aerosol optical properties for improving the MESSy photolysis module in the GEM-MACH v2.4 air quality model and application for calculating photolysis rates in a biomass burning plume. <i>Geoscientific Model Development</i> , 2022, 15, 219-249.	3.6	5
32	Expansion of a size disaggregation profile library for particulate matter emissions processing from three generic profiles to 36 source-type-specific profiles. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 1067-1100.	1.9	3
33	Towards understanding the variability in source contribution of CO <sub>2</sub> using high-resolution simulations of atmospheric <sup>13</sup> C signatures in the Greater Toronto Area, Canada. <i>Atmospheric Environment</i> , 2019, 214, 116877.	4.1	2