

Michael D Moran

List of Publications by Year in descending order

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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	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
2	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
3	A gridded inventory of Canada’s anthropogenic methane emissions. <i>Environmental Research Letters</i> , 2022, 17, 014007.	5.2	11
4	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
5	Top-Down Determination of Black Carbon Emissions from Oil Sand Facilities in Alberta, Canada Using Aircraft Measurements. <i>Environmental Science & Technology</i> , 2020, 54, 412-418.	10.0	7
6	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
7	Eight-Year Estimates of Methane Emissions from Oil and Gas Operations in Western Canada Are Nearly Twice Those Reported in Inventories. <i>Environmental Science & Technology</i> , 2020, 54, 14899-14909.	10.0	52
8	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
9	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
10	Chemical Analysis of Surface-Level Ozone Exceedances during the 2015 Pan American Games. <i>Atmosphere</i> , 2020, 11, 572.	2.3	18
11	Towards understanding the variability in source contribution of CO ₂ using high-resolution simulations of atmospheric ¹³ C signatures in the Greater Toronto Area, Canada. <i>Atmospheric Environment</i> , 2019, 214, 116877.	4.1	2
12	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
13	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
14	High-resolution quantification of atmospheric CO ₂ mixing ratios in the Greater Toronto Area, Canada. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3387-3401.	4.9	12
15	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
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	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
18	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

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19	Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3756-E3765.	7.1	75
20	Multi-Year (2013–2016) PM _{2.5} Wildfire Pollution Exposure over North America as Determined from Operational Air Quality Forecasts. Atmosphere, 2017, 8, 179.	2.3	39
21	Blending forest fire smoke forecasts with observed data can improve their utility for public health applications. Atmospheric Environment, 2016, 145, 308-317.	4.1	33
22	A global catalogue of large SO ₂ sources and emissions derived from the Ozone Monitoring Instrument. Atmospheric Chemistry and Physics, 2016, 16, 11497-11519.	4.9	200
23	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. Journal of the Air and Waste Management Association, 2016, 66, 819-841.	1.9	65
24	Turbulent transport, emissions and the role of compensating errors in chemical transport models. Geoscientific Model Development, 2014, 7, 1001-1024.	3.6	16
25	An evaluation of ambient ammonia concentrations over southern Ontario simulated with different dry deposition schemes within STILT-Chem v0.8. Geoscientific Model Development, 2014, 7, 1037-1050.	3.6	8
26	Development of a new semi-empirical parameterization for below-cloud scavenging of size-resolved aerosol particles by both rain and snow. Geoscientific Model Development, 2014, 7, 799-819.	3.6	53
27	PAH concentrations simulated with the AURAMS-PAH chemical transport model over Canada and the USA. Atmospheric Chemistry and Physics, 2014, 14, 4065-4077.	4.9	33
28	Modeling atmospheric ammonia and ammonium using a stochastic Lagrangian air quality model (STILT-Chem v0.7). Geoscientific Model Development, 2013, 6, 327-344.	3.6	11
29	Review and uncertainty assessment of size-resolved scavenging coefficient formulations for below-cloud snow scavenging of atmospheric aerosols. Atmospheric Chemistry and Physics, 2013, 13, 10005-10025.	4.9	58
30	Evaluating the capability of regional-scale air quality models to capture the vertical distribution of pollutants. Geoscientific Model Development, 2013, 6, 791-818.	3.6	49
31	Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations. Atmospheric Environment, 2012, 53, 15-37.	4.1	111
32	Improvements to Wintertime Particulate-Matter Forecasting With GEM-MACH15. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 591-597.	0.2	29
33	Cloud processing of gases and aerosols in a regional air quality model (AURAMS). Atmospheric Research, 2006, 82, 248-275.	4.1	124