

# Robert W Pinder

## List of Publications by Year in descending order

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35  
papers

3,947  
citations

147801

31  
h-index

361022

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

4171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Representation of Secondary Organic Aerosol in CMAQv4.7. Environmental Science & Technology, 2010, 44, 8553-8560.	10.0	364
2	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
3	Emissions estimation from satellite retrievals: A review of current capability. Atmospheric Environment, 2013, 77, 1011-1042.	4.1	323
4	To What Extent Can Biogenic SOA be Controlled?. Environmental Science & Technology, 2010, 44, 3376-3380.	10.0	254
5	Ammonia Emission Controls as a Cost-Effective Strategy for Reducing Atmospheric Particulate Matter in the Eastern United States. Environmental Science & Technology, 2007, 41, 380-386.	10.0	251
6	Epoxide Pathways Improve Model Predictions of Isoprene Markers and Reveal Key Role of Acidity in Aerosol Formation. Environmental Science & Technology, 2013, 47, 11056-11064.	10.0	222
7	Reactive nitrogen in atmospheric emission inventories. Atmospheric Chemistry and Physics, 2009, 9, 7657-7677.	4.9	196
8	Intercomparison of SCIAMACHY and OMI tropospheric NO <sub>2</sub> columns: Observing the diurnal evolution of chemistry and emissions from space. Journal of Geophysical Research, 2008, 113, .	3.3	165
9	TES ammonia retrieval strategy and global observations of the spatial and seasonal variability of ammonia. Atmospheric Chemistry and Physics, 2011, 11, 10743-10763.	4.9	129
10	Seasonal NH <sub>3</sub> emissions for the continental United States: Inverse model estimation and evaluation. Atmospheric Environment, 2006, 40, 4986-4998.	4.1	128
11	Climate change impacts of US reactive nitrogen. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7671-7675.	7.1	126
12	Dynamic evaluation of regional air quality models: Assessing changes in O <sub>3</sub> stemming from changes in emissions and meteorology. Atmospheric Environment, 2008, 42, 5110-5123.	4.1	116
13	Constraining U.S. ammonia emissions using TES remote sensing observations and the GEOS-Chem adjoint model. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3355-3368.	3.3	110
14	Development and application of a three-dimensional aerosol chemical transport model, PMCAMx. Atmospheric Environment, 2007, 41, 2594-2611.	4.1	105
15	Temporally resolved ammonia emission inventories: Current estimates, evaluation tools, and measurement needs. Journal of Geophysical Research, 2006, 111, .	3.3	95
16	Impact of lightning-NO on eastern United States photochemistry during the summer of 2006 as determined using the CMAQ model. Atmospheric Chemistry and Physics, 2012, 12, 1737-1758.	4.9	92
17	A multi-resolution assessment of the Community Multiscale Air Quality (CMAQ) model v4.7 wet deposition estimates for 2002-2006. Geoscientific Model Development, 2011, 4, 357-371.	3.6	90
18	A temporally and spatially resolved ammonia emission inventory for dairy cows in the United States. Atmospheric Environment, 2004, 38, 3747-3756.	4.1	82

#	ARTICLE	IF	CITATIONS
19	A process-based model of ammonia emissions from dairy cows: improved temporal and spatial resolution. <i>Atmospheric Environment</i> , 2004, 38, 1357-1365.	4.1	79
20	Observable indicators of the sensitivity of PM <sub>2.5</sub> nitrate to emission reductions—Part I: Derivation of the adjusted gas ratio and applicability at regulatory-relevant time scales. <i>Atmospheric Environment</i> , 2008, 42, 1275-1286.	4.1	79
21	Effects of nitrogen deposition on greenhouse gas fluxes for forests and grasslands of North America. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 547-553.	4.0	67
22	Quantifying spatial and seasonal variability in atmospheric ammonia with in situ and space-based observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	54
23	Spatially Refined Aerosol Direct Radiative Forcing Efficiencies. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9511-9518.	10.0	53
24	Impacts of human alteration of the nitrogen cycle in the US on radiative forcing. <i>Biogeochemistry</i> , 2013, 114, 25-40.	3.5	51
25	Satellite observations of tropospheric ammonia and carbon monoxide: Global distributions, regional correlations and comparisons to model simulations. <i>Atmospheric Environment</i> , 2015, 106, 262-277.	4.1	48
26	Source contributions to primary organic aerosol: Comparison of the results of a source-resolved model and the chemical mass balance approach. <i>Atmospheric Environment</i> , 2007, 41, 3758-3776.	4.1	46
27	Analysis of coupled model uncertainties in source-to-dose modeling of human exposures to ambient air pollution: A PM <sub>2.5</sub> case study. <i>Atmospheric Environment</i> , 2009, 43, 1641-1649.	4.1	41
28	Observable indicators of the sensitivity of PM <sub>2.5</sub> nitrate to emission reductions—Part II: Sensitivity to errors in total ammonia and total nitrate of the CMAQ-predicted non-linear effect of SO <sub>2</sub> emission reductions. <i>Atmospheric Environment</i> , 2008, 42, 1287-1300.	4.1	38
29	Evaluation of simulated photochemical partitioning of oxidized nitrogen in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 275-291.	4.9	37
30	Efficient Probabilistic Estimates of Surface Ozone Concentration Using an Ensemble of Model Configurations and Direct Sensitivity Calculations. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2388-2393.	10.0	36
31	Observation and modeling of the evolution of Texas power plant plumes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 455-468.	4.9	34
32	Combining Bayesian methods and aircraft observations to constrain the HO <sub>2</sub> + NO <sub>2</sub> reaction rate. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 653-667.	4.9	33
33	GLIMPSE: A Rapid Decision Framework for Energy and Environmental Policy. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12011-12019.	10.0	25
34	Examination of the impact of photoexcited NO <sub>2</sub> chemistry on regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 6383-6387.	4.1	20
35	Trends in atmospheric reactive nitrogen for the Eastern United States. <i>Environmental Pollution</i> , 2011, 159, 3138-3141.	7.5	20