Barron B Henderson

List of Publications by Year
in descending order

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40	1,712	471509	302126
papers	citations	17 h-index	39 g-index

55	55	55	2895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Estimate of the Global Burden of Anthropogenic Ozone and Fine Particulate Matter on Premature Human Mortality Using Atmospheric Modeling. Environmental Health Perspectives, 2010, 118, 1189-1195.	6.0	604
2	A land use regression application into assessing spatial variation of intra-urban fine particulate matter (PM2.5) and nitrogen dioxide (NO2) concentrations in City of Shanghai, China. Science of the Total Environment, 2016, 565, 607-615.	8.0	161
3	Assessing public health burden associated with exposure to ambient black carbon in the United States. Science of the Total Environment, 2016, 539, 515-525.	8.0	98
4	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
5	Association of Atmospheric Particulate Matter and Ozone with Gestational Diabetes Mellitus. Environmental Health Perspectives, 2015, 123, 853-859.	6.0	88
6	A database and tool for boundary conditions for regional air quality modeling: description and evaluation. Geoscientific Model Development, 2014, 7, 339-360.	3.6	66
7	The global nonmethane reactive organic carbon budget: A modeling perspective. Geophysical Research Letters, 2017, 44, 3897-3906.	4.0	51
8	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9849-9861.	3.3	48
9	Modeling ozone formation from industrial emission events in Houston, Texas. Atmospheric Environment, 2008, 42, 7641-7650.	4.1	45
10	A comparison of atmospheric composition using the Carbon Bond and Regional Atmospheric Chemistry Mechanisms. Atmospheric Chemistry and Physics, 2013, 13, 9695-9712.	4.9	44
11	Development and Evaluation of a Comprehensive Atmospheric Emission Inventory for Air Quality Modeling in the Megacity of BogotÃ¡. Atmosphere, 2018, 9, 49.	2.3	38
12	Evaluation of simulated photochemical partitioning of oxidized nitrogen in the upper troposphere. Atmospheric Chemistry and Physics, 2011, 11, 275-291.	4.9	37
13	Slower ozone production in Houston, Texas following emission reductions: evidence from Texas Air Quality Studies in 2000 and 2006. Atmospheric Chemistry and Physics, 2014, 14, 2777-2788.	4.9	34
14	Combining Bayesian methods and aircraft observations to constrain the HO[.] + NO₂ reaction rate. Atmospheric Chemistry and Physics, 2012, 12, 653-667.	4.9	33
15	The Inï¬‚uence of Model Resolution on Ozone in Industrial Volatile Organic Compound Plumes. Journal of the Air and Waste Management Association, 2010, 60, 1105-1117.	1.9	27
16	Performance evaluation of a photochemical model using different boundary conditions over the urban and industrialized metropolitan area of VitÃ³ria, Brazil. Environmental Science and Pollution Research, 2019, 26, 16125-16144.	5.3	22
17	Comparison of Lagrangian Process Analysis tools for Eulerian air quality models. Atmospheric Environment, 2011, 45, 5200-5211.	4.1	17
18	Air quality modeling in BogotÃ¡, Colombia using local emissions and natural mitigation factor adjustment for re-suspended particulate matter. Atmospheric Pollution Research, 2018, 9, 95-104.	3.8	17

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19	Comparing Standard to Feature-Based Meteorological Model Evaluation Techniques in BogotÃ¡, Colombia. Journal of Applied Meteorology and Climatology, 2017, 56, 391-413.	1.5	14
20	Natural mitigation factor adjustment for re-suspended particulate matter emissions inventory for BogotÃ¡, Colombia. Atmospheric Pollution Research, 2017, 8, 29-37.	3.8	14
21	Characterizing CO and NO_y Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3304-3320.	3.3	14
22	Impacts of heterogeneous HONO formation on radical sources and ozone chemistry in Houston, Texas. Atmospheric Environment, 2015, 112, 344-355.	4.1	12
23	Atmospheric Implications of Large C₂â€C₅ Alkane Emissions From the U.S. Oil and Gas Industry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1148-1169.	3.3	12
24	Spatial and Temporal Variability of Brown Carbon in the United States: Implications for Direct Radiative Effects. Geophysical Research Letters, 2020, 47, e2020GL090332.	4.0	12
25	High Electricity Demand in the Northeast U.S.: PJM Reliability Network and Peaking Unit Impacts on Air Quality. Environmental Science & Technology, 2016, 50, 8375-8384.	10.0	10
26	Evaluation of 15 years of modeled atmospheric oxidized nitrogen compounds across the contiguous United States. Elementa, 2021, 9, .	3.2	10
27	Influence of satellite-derived photolysis rates and NO_x emissions on Texas ozone modeling. Atmospheric Chemistry and Physics, 2015, 15, 1601-1619.	4.9	9
28	Evaluation of updated nitric acid chemistry on ozone precursors and radiative effects. Atmospheric Chemistry and Physics, 2015, 15, 5973-5986.	4.9	9
29	Modelâ€“measurement comparison of functional group abundance in <i>Î±</i>-pinene and 1,3,5-trimethylbenzene secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2016, 16, 8729-8747.	4.9	9
30	Strong influence of deposition and vertical mixing on secondary organic aerosol concentrations in CMAQ and CAMx. Atmospheric Environment, 2017, 171, 317-329.	4.1	9
31	Reflecting on progress since the 2005 NARSTO emissions inventory report. Journal of the Air and Waste Management Association, 2019, 69, 1023-1048.	1.9	8
32	Satellite Formaldehyde to Support Model Evaluation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032881.	3.3	7
33	Differences in fine particle chemical composition on clear and cloudy days. Atmospheric Chemistry and Physics, 2020, 20, 11607-11624.	4.9	7
34	Estimating US Background Ozone Using Data Fusion. Environmental Science & Technology, 2021, 55, 4504-4512.	10.0	5
35	How does a 10-fold pulse increase of aircraft-related NO x impact the global burdens of O3 and secondary organic aerosol (SOA)?. Air Quality, Atmosphere and Health, 2017, 10, 929-938.	3.3	4
36	Improving estimates of PM2.5 concentration and chemical composition by application of High Spectral Resolution Lidar (HSRL) and Creating Aerosol Types from chemistry (CATCH) algorithm. Atmospheric Environment, 2021, 250, 118250.	4.1	4

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37	Variability in Observation-Based Onroad Emission Constraints from a Near-Road Environment. Atmosphere, 2020, 11, 1243.	2.3	2
38	Incorporation of Remote PM2.5 Concentrations into the Downscaler Model for Spatially Fused Air Quality Surfaces. Atmosphere, 2020, 11, 103.	2.3	2
39	Partitioning of HNO3, H2O2 and SO2 to cloud ice: Simulations with CMAQ. Atmospheric Environment, 2014, 88, 239-246.	4.1	1
40	P-306. Epidemiology, 2012, 23, 1.	2.7	0