

**WILLIAM L. CHAMEIDES  
BIOGRAPHICAL SKETCH**

CHAMEIDES, William L.

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**Dr. Bill Chameides** has combined more than 30 years in academia as a professor, researcher, teacher, and mentor with a 3-year stint in the NGO world as the chief scientist of the Environmental Defense Fund. He joined Duke as the Dean of the Nicholas School of the Environment in 2007. He is a:

- member of the National Academy of Sciences,
- fellow of the American Geophysical Union,
- recipient of the American Geophysical Union's MacElwane Award.
- named one of the world's most highly cited scientists by the international online research database ISI Highly Cited.com

Bill's research focuses on the atmospheric sciences, elucidating the causes of and remedies for global, regional, and urban environmental change and identifying pathways towards a more sustainable future. His research helped lay the groundwork for our understanding of the chemistry of the lower atmosphere, elucidating pathways for the mitigation of urban and regional photochemical smog, and identifying the impact of regional environmental change on global food production.

Bill has served on numerous national and international committees and task forces and in recognition was named a National Associate of the National Academies for "extraordinary service." In November, 2008, Bill was appointed the Vice Chair of the Committee on America's Climate Choices <http://americasclimatechoices.org/>, commissioned by Congress to develop a multi-decadal roadmap for America's response to climate change.

Bill blogs on [The Green Grok](#) , [The Huffington Post](#), and the website for Scientific American, [ScientificAmerican.com](http://ScientificAmerican.com), and is a guest blogger on the Popular Science Magazine's website [PopSci.Com](http://PopSci.Com).

**Research Interests:** global, regional, and urban-scale environmental change; causes, impacts, and paths toward sustainable development.

# WILLIAM L. CHAMEIDES

## CURRICULUM VITAE

CHAMEIDES, William L.

Dean, Nicholas School of the Environment  
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### Personal Data:

Born: 11/21/49, New York City, New York  
Married, 4 sons (1 deceased), 4 grandchildren

### Educational Background:

B.A. 1970 SUNY at Binghamton  
M.Ph. 1973 Yale University  
Ph.D. 1974 Yale University Advisor: Dr. J.C.G. Walker  
Thesis: A Photochemical Theory of Tropospheric  
Ozone

### Employment History:

Dean, Nicholas School of the Environment and Earth Sciences, Duke University, 2007 -  
Chief Scientist, Environmental Defense, 2005 - 2007  
Regents' Professor Emeritus, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, 2005 -  
Smithgall Chair of Atmospheric Sciences, Georgia Institute of Technology, 1998-2005  
Regents' Professor, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, 1995-2005  
Acting Chair, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, 2001- 2002  
Distinguished Visiting Professor, School of the Environment, Duke University, Winter, 1996.  
Professor, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, 1985-1995  
Director, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, 1989-1994  
Acting Director, School of Geophysical Sciences, Georgia Institute of Technology, 1988-1989  
Editor, Journal of Geophysical Research-Atmosphere, American Geophysical Union, 1984-1987  
Associate Professor, School of Geophysical Sciences, Georgia Institute of Technology, 1980-1985  
Associate Professor, Department of Physics and Astronomy, University of Florida, 1976-1980  
Assistant Research Scientist, Space Physics Research Laboratory, University of Michigan, 1975-1976  
Lecturer, Department of Electrical Engineering, University of Michigan, Summer, 1975  
Research Investigator, Space Physics Research Laboratory, University of Michigan, 1974-1975

### Scientific Fields of Interest:

Atmospheric Chemistry and Earth System Science: Development of integrated physical/chemical/biological/sociological algorithms to study urban, regional, and global change and determine pathways toward a sustainable future. Through: (i) the application of numerical algorithms and models capable of simulating non-linear systems in the atmosphere; and (ii) the design and implementation of multi-institutional, field-oriented, research programs.

### Honors, Awards and Recognitions:

Elected National Associate of the National Academies in "recognition of extraordinary service", 2002  
Distinguished Professor Award, Georgia Institute of Technology, 2000  
Elected member of the National Academy of Sciences, 1998  
Morris Katz Memorial Lectureship in Environmental Research, 1995  
James B. MacElwane Award, American Geophysical Union, for significant contributions by a young scientist, 1983.  
Elected Fellow, American Geophysical Union, June, 1983.

### **Professional Service - Committees, Boards, and Panels (Past ten years):**

Vice Chair, NRC/National Academy of Sciences, Committee on America's Climate Choices, 2008 -  
Member, NRC/National Academy of Sciences, Report Review Committee, 2008 -  
Member, NRC/National Academy of Sciences, Climate, Energy and National Security Committee, 2008 -  
Member, MEDEA, 2009 -  
Member, Hong Kong Polytechnic University, Committee on Establishing the Energy and Environment Related Academic Programmes, 2008  
Member, NRC/National Academy of Sciences, Panel on Electrical Power from Renewable Energy Sources, 2007 - 2010.  
Technical and Scientific Advisor, Ad Council's Fight Global Warming Campaign, 2005 -  
Member, NRC/National Academy of Sciences, Committee on Analysis of Global Change Assessments, 2006 - 2007.  
Air Quality Working Group, The Heinz Center, 2006.  
Member, Report Review Committee, National Academy of Sciences, 2003 - 2005  
Member, U.S. EPA Board of Scientific Counselors, 2001 - 2003  
Chair, NRC/National Academy of Sciences, Committee on Air Quality Management in U.S., 2001- 2004  
Texas A&M University, External Review Committee for Department of Atmospheric Sciences, 2001.  
Member, Board on Environmental Studies and Toxicology, National Research Council, 1999-2002.  
Colorado University-Boulder, External Review Committee, CIRES, 1999.  
North Carolina State University, External Review Committee, Air Quality Center, 1999.  
University of Virginia, Visiting Committee, Department of Environmental Sciences, 1998.  
Director, Southern Center for the Integrated Study of Secondary Air Pollutants (SCISSAP), 1998 - 2001.  
Chair, NRC/National Academy of Sciences, Committee on Ozone Forming Potential of RFG, 1997- 1999.  
Chair, Synthesis Team, North American Research Strategy for Tropospheric Ozone, 1997 - 2000.  
USA Study Director, CHINA-MAP, 1996 - 2001  
Chief Scientist, Southern Oxidant Study, 1995 - 2001  
Harvard University, Member of Overseer's Visiting Committee, Division of Applied Sciences, 1995 - 2000

### **Membership in Professional and Honorary Societies:**

American Geophysical Union  
American Men and Women and Science  
American Association for the Advancement of Sciences  
National Academy of Sciences

### **Books:**

Electricity from Renewable Sources: Status, Prospects, and Impediments, (L. Papay, A. Bard, R. Agrawal, W.L. Chameides, J. Davidson, J. M. Davis, K. Fletcher, C. Goodman, S. Haile, N. Lewis, K. Palmer, J. Paterson, K. Rabago, C. Weinberg, K. Yeager) National Academy Press, Washington, DC, 367 pp, 2010.

Harnessing Farms and Forests in the Low-Carbon Economy: How to Create, Measure, and Verify Greenhouse Gas Offsets, (Z. Wiley and W.L. Chameides, Eds), Duke University, 2007.

Air Quality Management in the U.S., (W.L. Chameides, D. Greenbaum, C. Benkovitz, E. Bingham, M. Bradley, R. Burnett, D. Burtraw, L. Caretto, C. Denson, C. Driscoll, J. Hall, P. Hopke, A. Howitt, C.S. Kiang, B. Law, J. Lents, D. Mazurall, T. McGarity, J. Milford, M. Morris, S. Pandis, P. B. Ryan, A. Sarofim, S. Vedal, L. Zeiss), National Academy Press, 401 pp, 2004.

An Assessment Of Tropospheric Ozone Pollution And Its Management In North America, (W.L. Chameides, K.L. Demerjian, D. Albitton, P. Amar, A. Berrara, A. Dunker, H. Feldman, F. Guzman, A. Hansen, J. Hales, G. Hidy, C. Olivotto, R. Patterson, P. Roth, R. Scheffe, K. Schere, L. and L. Schultz), EPRI/NARSTO, 220 pp, 2000.

Ozone-Forming Potential of Reformulated Gasoline, (W.L. Chameides, C.A. Aman, R. Atkinson, N.J. Brown, J.G. Calvert, F.C. Fehsenfeld, J.P. Longwell, M.J. Molina, S.T. Rao, A.G. Russell, C.L. Saricks), National Academy Press, Washington, D.C., 252pp, 1999.

Global Biogeochemical Cycles: A Computer-Interactive Study of Earth System Science and Global Change, (W.L. Chameides and M. Perdue), University of Oxford Press, New York, 225pp, 1997.

Rethinking the Ozone Problem in Urban and Regional Air Pollution, (J.H. Seinfeld, R. Atkinson, R.L. Berglund, W.L. Chameides, W.R. Cotton, K.L. Demerjian, J.C. Elston, F. Fehsenfeld, B.J. Finlayson-Pitts, R.C. Harriss, C.E. Kolb, Jr., P.J. Lioy, J.A. Logan, M.J. Prather, A. Russell, and B. Steigerwald), National Academy Press, Washington, D.C., 500pp, 1991.

## Refereed Publications

- Characteristics of anthropogenic sulfate and carbonaceous aerosols over East Asia: Regional modeling and observation (Huang, Y., W.L. Chameides, Q. Tan, and R.E. Dickinson, *Advances In Atmospheric Sciences*, **25**,946–959, 2008.
- A quantitative assessment of uncertainties affecting estimates of global mean OH derived from methylchloroform observations (Wang, J.S., M.B. McElroy, J.A. Logan, P.I. Palmer, W.L. Chameides, Y. Wang, and I.A. Megretskaia), *J. Geophys. Res.*, **113**, D12302, doi:10.1029/2007JD008496, 2008.
- Source characteristics of volatile organic compounds during high ozone episodes in Hong Kong, Southern China, (Zhang, J., T. Wang, W.L. Chameides, C. Cardelino, D.R. Blake, and D.G. Streets) *Atmos. Chem. Phys. Discuss.*, **8**, 8847–8879, 2008.
- Policy Forum: Carbon trading over taxes (Chameides, W.L. and M. Oppenheimer), *Science*, **315**, 1670, 2007.
- Atlantic Southern Ocean Productivity: Fertilization From Above or Below? (Meskhidze, N., Nenes, A., Chameides, W.L., Chao Luo, and N. Mahowald), *Global Biogeochemical Cycles*, **21**, doi:10.1029/2006GB002711, 2007.
- Planets on the table: a laboratory experiment on radiation and planetary effective-temperature concepts, (Karabanov, O., J. C. St. John, and W.L. Chameides), *Amer. J. Physics*, in press, 2007.
- Single-Source Impact Analysis Using 3D Air Quality Models, (Bergin, M.S., A. G. Russell, M. T. Odman, D. S. Cohan, and W. L. Chameides), *J. Air Waste Manag.* in press, 2007.
- Direct and indirect effects of anthropogenic aerosols on regional precipitation over east Asia (Huang, Y., W. L. Chameides, and R. E. Dickinson), *J. Geophys. Res.*, **112**, D03212, doi:10.1029/2006JD007114, 2007.
- The impact of aerosol indirect effect on surface temperature over East Asia, (Y. Haung, R.E. Dickinson, W.L. Chameides), *Proc. Natl. Acad. Sci.*, **103**, 4371-4376, 2006.
- The influence of aerosols on crop production: A study using the CERES crop model, Agricultural Systems (Greenwald, R., M.H. Bergin, Jin Xu, D. Cohan, G. Hoogenboom, W.L. Chameides) *Agricultural Systems*, **89**, 390–413, 2006.
- Aerosol-induced thermal effects increase modeled terrestrial photosynthesis and transpiration (Steiner, A.L., W.L. Chameides) *Tellus*, **57B**, 404-411, 2005.
- The coupling of the Common Land Model (CLM0) to a regional climate model (RegCM) (Steiner, A.L., J.S. Pal, F. Giorgi, R.E. Dickinson, W.L. Chameides) *Theor. Appl. Climat.*, **82**, 3-4, 225-243, 2005.
- Dust and Pollution: A Recipe for Enhanced Ocean Fertilization? (Meskhidze, N., W.L. Chameides, A. Nenes, *J. Geophys. Res.*, **110**, D03301, doi:10.1029/2004JD005082, 2005.
- Surface ozone: A likely threat to crops in Yangtze delta of China (Wang Huixiang, C.S. Kiang, T. Xiaoyan, Z. Xiuji, W.L. Chameides) *Atmos. Env.*, **39**, 3843-3850, 2005.
- An evaluation of TRACE-P emission inventories from China using a regional model and chemical measurements (Tan, Q., W. L. Chameides, D. Streets, T. Wang, J. Xu, M. Bergin, and J. Woo, *J. Geophys. Res.*, **109**, D22305, doi:10.1029/2004JD005071, 2004.
- Iron mobilization in mineral dust: Can anthropogenic SO<sub>2</sub> emissions affect ocean productivity? (N. Meskhidze, W.L. Chameides, A. Nenes, G. Chen) *Geophys. Res. Lett.*, **30**, doi:10.1029/2003GL018035, 2003
- Short-term temporal variation in PM<sub>2.5</sub> mass and chemical composition during the atlanta supersite experiment, 1999, (R. Weber, D. Orsini, A. Sullivan, M. Bergin, K. Carrico, C. S. Kiang, M. Chang, Y.N. Lee, P. Dasgupta, J. Slanina, B. Turpin, E. Edgerton, S. Hering, G. Allen, P. Solomon, W. Chameides), *J. Air Waste Manag.*, **53**, 84-91. 2003.
- An evaluation of the thermodynamic equilibrium assumption for fine particulate composition: Nitrate and ammonium during Atlanta '99 Supersite Experiment (J. Zhang, W.L. Chameides, R. Weber, G. Cass, D. Orsini, E. Edgerton, P. Jongejan, J. Slanina), *J. Geophys. Res.*, **108**, doi:10.1029/2001JD001592, 2003.

- Past and present-day biogenic volatile organic compounds emissions in East Asia, A. Steiner, Y. Huang, R. Saylor, W.L. Chameides, *Atmos. Env.*, **36**, 4895-4905, 2002.
- The impact of aerosol light attenuation on C-uptake by green plants (D. Cohan, J. Xu, M.H. Bergin, W.L. Chameides), *Global Biogeochemical Cycles*, 10.1029/2001GB001441, 2002.
- Investigating the adsorption artifact during aerosol sampling of semi-volatile organic carbon, (Baumann, K, F Ift, JZ Zhao, and WL Chameides), *J. Geophys. Res.*, **108**, doi:10.1029/2001JD001210, 2003
- Intercomparison of near real-time monitors of PM<sub>2.5</sub> of nitrate and sulfate at the EPA Atlanta Supersite, (Weber RJ, D Orsini, Y Duan, K Baumann, CS Kiang, WL Chameides, YN Lee, F Brechtel, P Klotz, P Jongejan, H ten Brink, S Slanina, PK Dasgupta, SA Hering, M Stolzenburg, E Edgerton, B Hartsell, PA Solomon, and R Tanner), *J. Geophys. Res.*, **108**, doi:10.1029/2001JD001220, 2003.
- Overview of the 1999 Atlanta Supersites Project, (Solomon, P.A., W. Chameides, R.W. Weber, A. Middlebrook, C.S. Kiang, A.G. Russell, A. Butler, , Turpin, B., D. Mikel, R. Scheffe, E. Cowling, E. Edgerton, J. St. John, J. Jansen, P. McMurry, S. Hering, and T. Bahadori), *J. Geophys. Res.*, **108**, doi:10.1029/2001JD001458, 2003.
- Discrete measurements of reactive gases and fine particle mass and composition during the 1999 Atlanta SuperSite Experiment, K. Baumann,, F. Ift, J. Z. Zhao, W. L. Chameides, *J. Geophys. Res.*, **108**, doi: 10.1029/2001JD001210, 2003.
- Correlation between model-calculated anthropogenic aerosols and satellite-derived cloud optical depths: Indication of indirect effect? (W.L. Chameides, Chao Luo, R.D. Saylor, D. Streets, Yan Huang, M. Bergin, F. Giorgi, *J. Geophys. Res.*, **107**, doi: 10.1029/2000JD000208, 2002.
- The budget and export of anthropogenic SO<sub>x</sub> from East Asia during continental outflow conditions, Q. Tan, Y. Huang, W.L. Chameides, *J. Geophys. Res.*, **107**, 10.1029/2001JD000769, 2002.
- Measurement of aerosol radiative, physical and chemical properties in Beijing during June, 1999, M.H. Bergin, G.R. Cass, J. Xu, C. Fang, L. Zeng, T. Yu, L.G. Salmon, C.S. Kiang, W.L. Chameides,, *J. Geophys. Res.*, **106**, 17969-17980, 2001.
- Influence of aerosol dry deposition on photosynthetically active radiation to plants: A case study in the Ynagzte Delta region of China, *Geophys. Res. Lett.*, **28**, 3605-3608, 2001.
- Regional simulation of anthropogenic sulfur over East Asia and its sensitivity to model parameters, Y. Qian, F. Giorgi, Y. Huang, W.L. Chameides, C. Luo, *Tellus*, **52B**, 171 - 191, 2001.
- Assessing policy-relevant science for managing ozone air quality, W. Chameides, K. Demerjian, D. Albritton, et al. *Environ. Manager*, p. 11-15, November 2000.
- Seasonal modeling of regional ozone pollution in the eastern United States, P. Kasibhatla and W.L. Chameides, *Geophys. Res. Letts.*, **27**, 1415-1418, 2000.
- Introduction to the Southern Oxidants Study Nashville/Middle Tennessee Ozone Study part II, E.B. Cowling, W.L. Chameides, C.S. Kiang, F.C. Fehsenfeld, and J.m. Meagher, *J. Geophys. Res.*, **105**, 9075-9077, 2000.
- The possible role of power plant plume emissions in fostering O<sub>3</sub> exceedence events in Atlanta, Georgia, J.C. St. John, W.L. Chameides, *J. Geophys. Res.*, **105**, 9203-9211, 2000.
- A non-urban ozone air pollution episode over eastern China: Observations and model simulations, C. Luo, J.C. St. John, Zhou Xiujie, K.S. Lam, T. Wang, and W.L. Chameides, *J. Geophys. Res.*, **105**, 1889-1908, 2000.
- The application of the observation based model to atmospheric measurement datasets, (C.A. Cardelino and W.L. Chameides), *Atmos. Environ.*, **34**, NARSTO Special Issue, 2325-2332, 2000.
- Case study of the effects of atmospheric aerosols and regional haze on agriculture: An opportunity to enhance crop yields in China through emission controls? (W.L. Chameides, H. Hu, S.C. Liu, M. Bergin, X. Zhou, L. Mearns, G. Wang, C.S. Kiang, R.D. Saylor, C. Luo, Y. Huang, A. Steiner, and F. Giorgi), *Proceedings of the National Academy of Sciences*, **26**, p. 13626-13633, 1999.
- Is ozone pollution affecting crop yields in China? , W.L. Chameides, Li Xingsheng, Tang Xiaoyan, Zhou Xiujie, Luo Chao, C.S. Kiang, J. St. John, R.D. Saylor, S.C. Liu, K.S. Lam, T. Wang, and F. Giorgi, *Geophys. Res. Letts.*, **26**, 867-870, 1999.
- Demonstrating attainment in Atlanta using urban airshed model simulations: Impact of boundary conditions and alternative forms of the NAAQS, (R.D. Saylor, W.L. Chameides, M.E. Chang), *Atmos. Environ.*, **33**, 1057-1064 1999.

- Introduction to Special Section: The Southern Oxidants Study Nashville/Middle Tennessee ozone study. (E.B. Cowling, W.L. Chameides, C.S. Kiang, J.F. Meagher, and F.C. Fehsenfeld), *J. Geophys. Res.*, **103**, 22,209-22,212, 1998.
- Relationships between regional ozone pollution and emissions of nitrogen oxides in the eastern United States, (P. Kasibhatla, W.L. Chameides, R.D. Saylor, and D. Olerud), *J. Geophys. Res.*, **103**, 22,663-22,669, 1998.
- Implications of the new ozone NAAQS for compliance in rural areas, (R.D. Saylor, W.L. Chameides, E.B. Cowling), *J. Geophys. Res.*, **103**, 31,137-31,141, 1998.
- The effects of urban emission control strategies on the export of ozone and ozone precursors from the urban atmosphere to the troposphere, (B.N. Duncan, and W.L. Chameides), *J. Geophys. Res.*, **103**, 28,159-2,179, 1998.
- The role of anthropogenic NO<sub>x</sub> and VOC as ozone precursors: A case study from the SOS Nashville/Middle Tennessee ozone study, (J.C. St. John, W.L. Chameides, and R.D. Saylor), *J. Geophys. Res.*, **103**, 22,415-22,424, 1998.
- An evaluation using <sup>14</sup>C and N<sub>2</sub>O simulations of three-dimensional transport driven by assimilated winds, (T.P. Kindler, D.M. Cunnold, F.N. Alyea, W.L. Chameides, Guang Ping Luo, and K. Schwan), *J. Geophys. Res.*, **103**, 10827-10847, 1998.
- Impact of organic nitrate formation on ozone levels in the eastern United States using the CB-IV model, (P.S. Kasibhatla, W.L. Chameides, B. Duncan, M. Houyoux, C. Jang, M. Odman, R. Mathur, and A. Xiu), *Geophys. Res. Lett.*, **24**, No. 24, pp. 3205-8, 1997.
- Gas to particle conversion of tropospheric sulfur as estimated from observations in the western North Pacific during PEM-West B, (C. C. Andronache, W. L. Chameides, D. D. Davis, B. E. Anderson, R. F. Pueschel, A. R. Bandy, D. C. Thornton, R. W. Talbot, and P. Kasibhatla), *J. Geophys. Res.*, **102**, 28,511-28,538, 1997.
- The climatology of ozone exceedences in the Atlanta metropolitan area: 1-hour vs. 8-hour standard and the role of "Plume re-circulation" in air pollution episodes, (J.C. St. John, and W.L. Chameides), *Env. Sci. Techn.*, **31**, 2797-2804, 1997.
- A three-dimensional global model investigation of seasonal variations in the atmospheric burden of anthropogenic sulfate aerosols, (P. Kasibhatla, W.L. Chameides, and J. St. John), *J. Geophys. Res.*, **102**, 3737-3759, 1997.
- Interactions between sulfur and soot emissions from aircraft and their role in contrail formation, I. Nucleation, (C. Andronache, and W.L. Chameides), *J. Geophys. Res.*, **102**, 21,433-21,451, 1997.
- Ozone pollution in the rural U.S. and the new NAAQS, (W.L. Chameides, R.D. Saylor, E.B. Cowling), *Science*, **276**, 916, 1997.
- The global impact of human activities on tropospheric ozone, (H. Levy, P.S. Kasibhatla, W.J. Moxim, A.A. Klonecki, A.I. Hirsch, S.J. Oltmans, and W.L. Chameides), *Geophys. Res. Lett.*, **24**, 791-794, 1997.
- Trends and analysis of ambient NO, NO<sub>y</sub>, CO, and ozone concentrations in Raleigh, North Carolina, (V.P. Aneja, Deug-Soo Kim, W.L. Chameides), *Chemosphere*, **34**, 611-623, 1997.
- A three-dimensional global model investigation of seasonal variations in the atmospheric burden of anthropogenic sulfate aerosols, (P. Kasibhatla, W.L. Chameides, and J. St. John), *J. Geophys. Res.*, **102**, 3737-3759, 1997.
- Three-dimensional view of the large-scale tropospheric ozone distribution over the North Atlantic Ocean during summer, (P. Kasibhatla, H. Levy, II, A. Klonecki, and W.L. Chameides), *J. Geophys. Res.*, **101**, 29,305-29,316, 1996.
- Assessment of ozone photochemistry in the western North Pacific as inferred from PEM-WEST A observations during the fall 1991, (D.D. Davis, J. Crawford, G. Chen, W.L. Chameides, S. Liu, J. Bradshaw, G. Sachse, G. Gregory, B. Anderson, J. Barrick, A. Bachmeier, J. Collins, E. Browell, D. Blake, S. Rowland, Y. Kondo, H. Singh, R. Talbot, B. Heikes, J. Merrill, J. Rodriguez, and R.E. Newell), *J. Geophys. Res.*, **101**, 2111-2134, 1995.
- An Observation-Based Model for analyzing ozone precursor relationships in the urban atmosphere, (C.A. Cardelino and W.L. Chameides), *J. Air Waste Manag. Assn.*, **45**, 161-180, 1995.
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- Continental-Scale Metro-Agro-Plexes, regional ozone pollution, and world food production, (W.L. Chameides, P. Kasibhatla, J. Yienger, and H. Levy, II), *Science*, **264**, 74-77, 1994.
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- A photostationary state analysis of the NO<sub>2</sub>-NO system based on airborne observations from the subtropical/tropical north and south Atlantic, (D.D. Davis, G. Chen, W.L. Chameides, J. Bradshaw, M. Rodgers, J. Schendal, S. Madronich, G. Sachse, G. Gregory, B. Anderson, J. Barrick, M. Shipman, J. Collins, L. Wade, and D. Blake), *J. Geophys. Res.*, **98**, 23501-23523, 1993.
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- Aqueous-phase chemical processes in deliquescent sea salt aerosols: A coupling between the atmospheric cycles of S and sea salt alkalinity, (W.L. Chameides and A.W. Stelson), *J. Geophys. Res.*, **97**, 20565 - 20580, 1992.
- A model study of the formation of cloud condensation nuclei in remote areas, (X. Lin, W.L. Chameides, C.S. Kiang, and A.W. Stelson), *J. Geophys. Res.*, **97**, 18161-18171, 1992.
- Aqueous-phase chemical processes in deliquescent seasalt aerosols, *Ber. Bunsenges. Phys. Chem.*, Vol. **96**, No. 3, 461-470, 1992.
- Ozone precursor relationships in the ambient atmosphere, (W.L. Chameides, F. Fehsenfeld, M.O. Rodgers, C. Cardelino, J. Martinez, D. Parrish, W. Lonneman, D. Lawson, R. Rasmussen, P. Zimmerman, J. Greenberg, and P. Middleton), *J. Geophys. Res.*, **97**, 6037-6055, 1992.
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- Model studies of the impact of chemical inhomogeneity on SO<sub>2</sub> oxidation in warm stratiform clouds, (Lin Xing and W.L. Chameides), *J. Atmos. Chem.*, **13**, 109-129, 1991.
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