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PROFESSIONAL EXPERIENCE

Princeton University

William S. Tod Professor of Environmental Engineering and Intern'l Affairs (2023-present)

Professor of Environmental Engineering and International Affairs (2011- 2023)

School of Public and International Affairs and Civil and Environmental Engineering Department

Associate Professor of Environmental Engineering and International Affairs (2009-2011)

Associate Professor of Public and International Affairs (with tenure),

Woodrow Wilson School of Public and International Affairs (2006 - 2009)

Assistant Professor of Public and International Affairs, Woodrow Wilson School (1999- 2006)

Affiliate faculty, Geosciences Department (1999 - present)

Affiliate faculty, Atmospheric and Ocean Science program (2003 - present)

Affiliate faculty, High Meadows Environmental Institute (formerly PEI) (1999 - present)

Affiliate faculty, Civil and Environmental Engineering Department (2003 - 2009)

Affiliate faculty, Andlinger Center for Energy and Environment (2008 - present)

Affiliate faculty, Center for Contemporary China (2019-present)

Stanford University, Visiting Scholar (January – March 2016)

National Center for Atmospheric Research, Boulder, CO

Visiting Scientist, Atmospheric Chemistry Division (Summer 1999)

Post-doctoral Fellow, Advanced Study Program (1996-1998)

United States Environmental Protection Agency, Washington D.C.

Program Manager, Global Change Division, Office of Air and Radiation (1989-1990)

Environmental Consulting

Chief Environmental Engineer, Bruce Company, Washington D.C. (1988-1989)

Chemist, ICF Technology Inc., Washington D.C. (1985-1987)

EDUCATION

Harvard University

Ph.D., Atmospheric Chemistry, Earth and Planetary Science Department, 1996

Dissertation: Influence of fossil fuel combustion and biomass burning on tropospheric ozone.

Advisor: Daniel J. Jacob

M.A., Atmospheric Chemistry, Earth and Planetary Science Department, 1992

Stanford University

M.S., Environmental Engineering, 1988

Brown University

Sc.B., with honors, Chemistry, 1985

University of Sussex, exchange student, 1984

HONORS & PROFESSIONAL SERVICE

Elected Fellow of the American Geophysical Union	(2023)
William S. Tod endowed chair at Princeton University	(2023)
Founding Co-Editor in Chief, <i>Sustainable Horizons</i> journal	2021-present
Editorial Board, <i>Advances in Applied Energy</i> journal	2020-present
Editorial Board, Atmospheric Environment	(2008-present)

Highly cited paper (top 1% of citations for given field in January 2023)

- Acting rapidly to deploy readily available methane mitigation measures by sector can immediately slow global warming, *Environmental Research Letters*, 2021
- Air quality, nitrogen use efficiency and food security in China are improved by cost-effective agricultural nitrogen management, *Nature Food*, 2020.
- Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source, *PNAS*, 2016.
- Managing Nitrogen for Sustainable Development, *Nature*, 2015

Highly cited paper (top 1% of citations for given field in July/August 2021) noted for:

- Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source, *PNAS*, 2016 (for Geosciences).
- Managing Nitrogen for Sustainable Development, *Nature*, 2015, (for Environment/Ecology)
- Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage, *Atmospheric Environment*, 2011, (for Geosciences)

Highly cited paper (top 1% of citations for given field in December 2020) noted for:

- Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source, *PNAS*, 2016 (for core collection).
- Managing Nitrogen for Sustainable Development, *Nature*, 2015, (for core collection)
- Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage, *Atmospheric Environment*, 2011, (for core collection)

Highly cited paper (top 1% of citations for given field in July/August 2019) noted for:

- Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source, *PNAS*, 2016 (for Geosciences).
- Managing Nitrogen for Sustainable Development, *Nature*, 2015, (for Environment/Ecology).
- Energy and Human Health, *Annual Review of Public Health*, 2013 (for Social Sciences).
- Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage, *Atmospheric Environment*, 2011, (for Geosciences).

Highly cited paper (top 1% of citations for given field in Sept/Oct 2018) noted for:

- Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source, *PNAS*, 2016 (for Geosciences).
- Vehicle Emissions as an Important Urban Ammonia Source in the United States and China, *Env Sci and Tech*, 2017 (for Environment/Ecology)

- Managing Nitrogen for Sustainable Development, *Nature*, 2015, (for Environment/Ecology).
- Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage, *Atmospheric Environment*, 2011, (for Geosciences).
- Energy and Human Health, *Annual Review of Public Health*, 2013 (for Social Sciences).

Executive Advisory Board, Institute for Advanced Sustainability Studies, Potsdam, Germany
(2017-2022)

Science Advisory Board, U.S. Environmental Protection Agency, chartered member (2014-2017)

Executive Committee, Andlinger Center for Energy and Environment, Princeton University, (2018-present)

Executive Committee, Program in Technology & Society: Energy Track (2017 – present)

Executive Committee, Chadha Center for Global India, Princeton University (2019 – present)

IMPACT award, Princeton Office of Sustainability, Princeton University (2016)

Advisory Board, PANDA, Partnership with chiNa on space DAta, European Commission project
(2013-2016)

Science Advisory Board, U.S. Environmental Protection Agency, Advisory Council on Clean Air Compliance
(2010-2013)

Executive Committee, Princeton Institute for International and Regional Studies (2011-2015)

Advisory Board, ECLAIRE, Effects of climate change on air pollution impacts and response strategies for European ecosystems, European Commission project (2011-2015)

Assistant Editor, New Directions, *Atmospheric Environment* (2011-2012)

Executive Committee, Cooperative Institute for Climate Science, Princeton University and NOAA Geophysical Fluid Dynamics Laboratory (2006 - 2017)

Science Steering Committee, International Geosphere Biosphere Program (IGBP), Analysis, Integration and Modeling of the Earth System (including human impacts) (2005 - 2010)

Intergovernmental Panel on Climate Change (IPCC) contributing author.

The IPCC shared the Nobel Peace Prize with Vice President Al Gore (2007)

National Research Council / National Academy of Science, Committee on Air Quality Management in the United States. (2/2001- 4/2004)

NASA New Investigators Program grant (2002-2006)

Advanced Study Program Postdoctoral Fellowship, NCAR. (1996-1998)

Provided 2 years of unconstrained research funding.

AAAS Congressional Science Fellowship (declined) (1996)

NASA Graduate Student Fellowship in Global Change Research (1993 - 1996)

Provided stipend, research and travel funds for 3 years of doctoral research.

Invited participant, Atmospheric Chemistry Conference for Emerging Senior Scientists (ACCESS) and Gordon Conference in Atmospheric Chemistry (June 1995)

Harvard University Certificate of Distinction in Teaching (1992 - 1993)

Harvard University Levinson Teaching Award nomination (1993)

Graduate Student Fellowship, U.S. Dept. of Education, tuition and stipend (1991 - 1993)

Stanford University School of Engineering Fellowship, tuition. (1987 - 1988)

Elected to Sigma Xi (1985)

Sc.B. awarded with departmental honors, Brown University

(1985)

TEACHING

Princeton University

- WWS594s *Climate Change: Science and Policy* (Spring 2014, 2015, 2018, 2020, S2021, F2021, S2023, S2024)
- CEE/ ENV334 /WWS475 *Global Environmental Issues* (Spring 2010, Spring 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2016, Fall 2017, Fall 2018, Fall 2020, Fall 2021, Spring 2024)
- WWS402-S04 *Policy Task Force: Sustainability at Princeton University: Lessons for Campus and the World* (Spring 2017)
- WWS591e *Policy Workshop: State Policies on Hydraulic Fracturing* (Fall 2014)
- WWS591g *Policy Workshop: Climate Change: Methane Mitigation Strategies* (Fall 2012)
- WWS591e *Policy Workshop: Post Copenhagen Climate Change Initiatives: Fast Action Mitigation Strategies* (Fall 2010)
- WWS350 *The Environment: Science and Policy* (Spring 2013)
- WWS594S *Introduction to Science, Technology and Environmental Policy: Energy and climate policy analysis* (with Frank von Hippel) (Spring 2011)
- FRS136 *Science and Policy of Global Environmental Issues* (Spring 2010)
- WWS/ENV334 *Global Environmental Issues* (Spring 2009)
- FRS136 *Living in a Polluted Greenhouse* (Spring 2009)
- WWS591e *Policy Workshop: Integrating Clean Air and Greenhouse Gas Mitigation Strategies in Future Environmental Policy: A Focus on Black Carbon* (Fall 2008)
- WWS 402d *Development of Policy Initiatives for the Sustainable Use of Energy at Princeton University* (Spring 2007)
- WWS 591a *Policy Workshop: Climate Change, State Initiatives, and Coastal Hazards: Mitigation and Adaptation Strategies for New Jersey* (Fall 2006)
- WWS 402e *Sustainable Development – Can We Do It?* (Spring 2003)
- WWS402e *Air Pollution, Climate Change and Energy: How China Matters* (Spring 2001)
- WWS402f *Air Pollution in India and China: Thinking Globally, Acting Locally* (Spring 2000)
- WWS475 *Global Environmental Issues* (Spring 2003, Spring 2005, Fall 2005)
- WWS584 *The Use of Science in Environmental Policy* (Fall 2004, Spring 2006, 2010)
- WWS586e *Global Environmental Issues: Science and Policy* (Spring 2005)
- WWS588 *Issues in Science, Technology and Environmental Policy* (Spring 1999)
- WWS589 *Methods in Science, Technology and Environmental Policy* (Fall 1999, 2000 & 2002)
- WWS591d *Environmental Diplomacy* (with Daniel Reifsnyder) (Fall 1999)

Harvard University, Harvard College, Teaching Fellow

- Environmental Science and Public Policy*, Profs. M.B. McElroy and W. Clark (Fall and Spring 1993)
- Atmospheric Chemistry*, Department of Earth and Planetary Science, Prof. D.J. Jacob (Spring 1992)
- The Atmosphere*, Undergraduate core program, Professor M.B. McElroy (Fall 1991)

Brown University, Department of Chemistry, Teaching Assistant

- Honors Chemistry*. First year honors course, Professor P. Rieger (Fall 1983)

Princeton Doctoral Students (primary adviser)

- Xiaoping Wang (Ph.D. WWS 2004), now World Bank staff.
- Junfeng Liu, (Ph.D. WWS 2006), now Associate Professor with tenure, Peking University, China
- Eri Saikawa, (Ph.D., WWS, September 2010), now Associate Professor, Emory University
- Shiri Avnery, (Ph.D., WWS, 2012), founder Thistle Co.

David Kanter, (Ph.D., WWS, 2014), now Associate Professor, New York University;
 Wei Peng, WWS, PhD 2016, now Assistant Professor, Penn State University
 Yue Qin, WWS, PhD 2017, now Assistant Professor, Peking University, Beijing, China
 Xiaoyuan (Charles) Li, CEE, PhD 2018, consultant Energy and Environmental Economics Inc.,
 San Francisco, CO
 Junnan Yang, (PhD WWS 2019), now Boston Consulting Group, China
 Yixin Guo, WWS, (PhD WWS 2019), now joint post-doc at Peking University and IIASA, Vienna
 Austria
 Xu Chen, (PhD SPIA 2020), now post-doc Princeton University
 Zhongshu (Josh) Li, (PhD SPIA 2020), now Boston Consulting Group, China
 Liqun Peng, (PhD SPIA, 2022), now post-doc LBNL, Berkeley CA
 Shangwei Liu, WWS, G6
 Xiangwen Fu, WWS, G6
 Rohit Gupta, WWS, G5
 Malini Nambiar, WWS, G5
 Yujie Wu, SPIA, G4
 Ned Downie, G3
 Jieyi Lu, G3
 Beichen Lyu, G1

Princeton Doctoral Students (committee member and/or PEI-STEP adviser)

Shardul Agrawala (PhD, WWS, 1999), now climate change administrator, Environment Directorate,
 OECD, Paris, France.
 Shangping, Xu (PhD, CEE 2004, PEI-STEP certificate student), now Associate Professor of
 Geosciences, University of Wisconsin – Milwaukee.
 Yan Zhang, (PhD, CEE, September 2010, PEI-STEP certificate student), now engineering
 technology entrepreneur.
 Brian Ellis (STEP-PEI fellow 2010-2012) Associate Professor, University of Michigan
 David Miller, (PhD CEE, 2013), now Environmental Defense Fund postdoctoral fellow
 Megan Konar, (PhD CEE, 2012). Now tenured Associate Prof., Dept of Civil and Environmental
 Engineering, University of Illinois
 Carole Dalin, (PhD, CEE, 2014, PEI-STEP certificate student), now tenured Associate Professor,
 Institute of Sustainable Resources, University College London
 Matt Reid, (PhD, CEE, 2014, PEI-STEP certificate student), now Assistant Prof, Cornell Univ.
 Mary Kang, (PhD, CEE, 2014, PEI-STEP certificate student), now Assistant Prof, McGill Univ
 Xinwo Huang, (PhD, CEE, 2016, PEI-STEP certificate student)
 David Pal, (PhD, CEE, 2016, PEI-STEP certificate student)
 Cynthia Gerlein, (PhD, CEE, 2017; PEI-STEP certificate student), now Project Scientist, Lawrence
 Berkeley National Lab
 Ryan Edwards, (PhD CEE, 2018; PEI-STEP certificate student), now AAAS Fellow, US Congress
 Da Pan, (PhD CEE, 2020 PEI-STEP certificate student), now post-doc Colorado Univ – Fort Collins
 Yiheng Tao, (PhD CEE, 2022) PEI-STEP certificate student
 Glen Chua, G4, AOS program, HMEI-STEP certificate student
 Anna Jacobson, G5, EEB, HMEI-STEP certificate student
 Matthew Sima, G4, CEE, HMEI-STEP certificate student

Postdoctoral Fellows

Vaishali Naik (post-doc 2003-2006, associate research scholar 2006-2007). Now: Project Scientist,
 Geophysical Fluid Dynamics Laboratory, Princeton, NJ
 Daniel Tong (post-doc 2005-2007) Now: Associate Professor, Atmospheric Chemistry, George
 Mason Univ.

Jason West (research associate, 2004-2006), Professor, Environmental Science and Engineering Department, School of Public Health, University of North Carolina, Chapel Hill, NC.
Monika Kopacz, (post-doc 2009-1010) Now: Program Manager, Climate Program Office, NOAA.
Yuanyuan Fang (post-doc 2010-2012), statistician, Bay Area Air Quality Management District, San Francisco, CA
Dan Westervelt, (post-doc 2013-2015), Now: Associate Research Scientist, Lamont-Doherty Earth Observatory, Columbia University
Xin Zhang, (post-doc 2012-2015), Now: tenured Associate Professor, University of Maryland Center for Environmental Science
Hongxun Liu, (research associate 2018-2020), Now: Associate Professor, Xi'an Jiaotong University, Xi'an China
Disha Sharma, post-doc 2019-2021
Mingwei Li, post-doc 2019-2022
Yang Guo, research associate, 2020-2023
Jing Liang, post-doc 2021-2022
Mi Zhou, post-doc 2021-present
Yuanyu Xie, research associate 2021-present

Senior Thesis Advisees:

Maha Qasim (CEE/WWS, 2007)

Susan Lyons (WWS, 2008)

Lyra Hass, (Politics, 2008)

Robert Weiss, (WWS, 2009). **Peter W. Stroh '51 Prize for best environmental thesis, as nominated by any department and the Richard H. Ullman Prize for best Woodrow Wilson School thesis on US foreign policy at Princeton.**

Virginia Maloney, (WWS, 2010).

Brooks Barron, (WWS, 2011). American Public Perception of Climate Change. **Peter W. Stroh '51 Environmental Thesis Prize.** The Princeton Environmental Institute (PEI) awards the Stroh Prize annually to a senior from any department who has written the best thesis on an environmental topic.

Lily Fu (WWS, 2011) Clearing the Air: Reducing air pollution from the electric power sector in China.

Kayley McGrath (WWS, 2012) Integrating renewable energy into the United States' electric grid: Identifying and removing the barriers to sustainable generation

Caroline Jo (WWS, 2013), **T.A. Barron Environmental Leadership Prize.** Leveraging private interests for the public good: Foreign actors and non-institutionalized citizen activism in China's environmental governance

Andrew Calof (CBE, 2014), A feasibility analysis of Princeton University investing in a waste-to-energy facility.

Bianca DiGiovanni (CEE, 2015) Spatial variations in New Jersey air quality: Implications for environmental justice.

Samuel (Ren) Scott (WWS, 2015) The German example: How the United States can learn from the rapid expansion of the German solar energy program.

Alex Bi (CEE, 2017), Spatial optimization of concentrating solar power productivity in China: A statistical and modeling approach

Emily Chen (CEE, 2017), Modeling the effect of air pollution on hospitalizations in Sao Paulo City (2000-2010).

Olivia Davis (WWS, 2018), Shedding a Light on U.S. Federal Solar Energy Policy: Contrasting the Obama and Trump Administration' Initiatives, Impacts and Motives in the Search for a Bipartisan Solution.

Mark Goldstein (WWS, 2018), **Woodrow Wilson Senior Thesis Prize** for a thesis of unusual merit, and the **Princeton Environmental Institute book prize in Social Sciences** for "Climate Change in American National Parks: Impacts, Management, Communication, and Public Perception."

Charles Kalvaria (CEE, 2018), Storm Surge, Zoning Law, and Environmental Policy: Protecting New Orleans and Houston

Stuart Pomeroy (WWS, 2018), Winds of Change: Opportunities for Offshore Wind-Energy Integration and Development in the Northeast United States.

Cadee Qiu (WWS, 2018), An Inconsistent Truth: China's Domestic and Export Policies on Renewable and Coal Energy Technologies

Naomi Cohen-Shields (CEE, 2020), Mapping Air Pollution Across China: An Analysis of Fine Particulate Matter (PM2.5) and Surface Ozone Pollution (2014 – 2019) with Correlating Provincial Socioeconomic Levels (2018). Environmental Studies Book Prize, W. Taylor Thomas Jr. Prize, <https://environment.princeton.edu/news/naomi-cohen-shields-senior-thesis-explores-who-benefits-as-china-cleans-its-air/>

Emilio Cano Renteria, CEE, 2023

Riti Bhandarkar, CEE, 2023

Morgan Weise, CEE, 2023

Cristina Maldacena, CEE 2024

Junior Paper Advisees:

Advised as part of the Spring 2017 WWS junior task force:

Sustainability at Princeton University: Lessons for Campus and the World.

Cecilia Shang

Olivia Davis

Colton Hess

Pleasant Garner

Stephen Bork

Anthony Sgro

Adam Bradley

Stuart Pomeroy

ADMINISTRATIVE RESPONSIBILITIES AT PRINCETON

Princeton University Research Board	(Fall 2020 – Spring 2024)
Faculty Chair, Presidential CO ₂ Emission Reduction Criteria Committee	Fall 2015
Director / Acting Director, WWS Science, Technology and Environmental Policy (STEP) program	(1999–2000; Spring 2010, 2013-2014; 2017-2018)
Director of Graduate Studies, WWS/SPIA Doctoral Program	(2012-2015; 2016-2021)
Chair, STEP Doctoral Program	(1999 – 2001; 2008-2021)
STEP seminar series convener	(1999-2001; 2002-2003; 2004-2007; 2008-2011; 2012-2015; 2016-present)
High Meadows Environmental Institute – postdoc selection committee	(2023-2024)
Andlinger Center faculty search committee – Energy policy	(2021-2023)
PIIRS faculty search committee – China environment	(2020-2021)
Princeton Resources Committee	(2014-2017)
WWS Faculty Council, ex officio	(2012-present)
Princeton Committee on Sustainability	(2008 – present)
Princeton Sustainability Steering Council	(2013-present)
Executive Committee, Andlinger Center for Energy and Environment	(2018-present)
Executive Committee, Chadha Center for Global India	(2019-present)
Executive Committee, Program in Technology & Society: Energy Track	(2017 – present)
Andlinger Center for Energy and Environment, Corporate Affiliates Advisory Council	(2012-)
Executive Committee, Princeton Institute for International and Regional Studies	(2011-2015)
Chair, WWS Scholars in the Nations Service, program review committee	(2012-2014)
Woodrow Wilson School Faculty Council	(Fall 2009–Spring 2010)
Woodrow Wilson School Senior Thesis Prize Committee	(1999, 2000)
Masters of Public Policy, Admissions Committee, WWS	(1999, 2000, 2010, 2011)
Masters of Public Affairs Admissions Committee, WWS	(2002, 2003, 2005, 2006)
University Committee on Libraries and Computing	(2002 - 2005)
University Committee on Course of Study	(2008 – 2011)
Woodrow Wilson School undergraduate committee	(2006, 2007, 2010, 2011)
Scholars in the Nations Service – selection committee	(2006, 2008, 2010, 2011)
Faculty fellow, Mathey College	(2003 - present)
WWS/CEE faculty search committee	(2007-2008)
Andlinger Center Director search committee	(2007-2009)
Co-chair, WWS/SEAS joint graduate degree exploratory committee	(2009)

PROFESSIONAL ACTIVITIES

Co-Editor in Chief

Sustainable Horizons

Editorial Board

Atmospheric Environment

Advances in Applied Energy

Journal Referee

Science; Nature; Nature – Climate Change; Nature- Sustainability; Proceedings of the National Academy of Science; Journal of Geophysical Research - Atmospheres; Geophysical Research Letters; Environmental Research Letters; Atmospheric Environment; Environmental Science and Technology; Annual Review of Energy and the Environment; Environmental Management; Science of the Total Environment; Global Environmental Change; Journal of Atmospheric Science; Journal of Atmospheric Chemistry; Atmospheric Chemistry and Physics; The Royal Society, Proceedings B., PLOS One

Grant Reviewer

National Aeronautics and Space Association (NASA); National Oceanographic and Atmospheric Administration (NOAA); National Science Foundation (NSF); U.S. Environmental Protection Agency; Research Grants Council of Hong Kong.

Book Reviewer

National Academy of Sciences/ National Research Council; Prentice-Hall; Princeton University Press., The Royal Society, London, U.K.

Conference Session Chairperson / Convener

Scientific Steering Committee, AGU-JING conference, American Geophysical Union and Chinese Academy of Sciences, Xi'an, China, October 2018

Convener: Coordinating Air Pollutant and Greenhouse Gas Mitigation Strategies: Co-benefits for Air Quality, Health and Climate, American Geophysical Union, San Francisco, CA.
December 2016

Chair: Hydraulic Fracturing – Potential Implications for Climate Change and America's Energy Future, Moderator. Synergize 2012, Andlinger Center Corporate Affiliates Program,
November 12, 2012.

Convener: Black carbons role in global to local air quality and climate change, American Geophysical Union, San Francisco, CA.
December 2010

Chair: Measurement and Modeling of Atmospheric Aerosols for Climate and Air Quality Applications, Asia Oceania Geosciences Society, Hyderabad, India. July 2010

Convener: Interconnections between air pollution, climate change, energy and human impacts – science, technology and policy. International Geosphere Biosphere Program (IGBP), Cape Town, South Africa.
May 2008

Chair: Megacities, Air Pollution over Asia, International Association of Meteorology and Atmospheric Sciences, Beijing, China. August 2005

Convener: Controlling Emissions of Non-CO2 Greenhouse Gases: Scientific and Policy Challenges, Joint Assembly meeting, New Orleans, LA. May 2005

Chair: Atmospheric Modeling and Dynamics session, Spring American Geophysical Union meeting, Boston, MA. May 2001

Chair: Aspen Global Change Institute, Working Group on Air Quality and Climate Change, Aspen, CO. August 2000

PUBLICATIONS (Peer Reviewed)

H-index Google Scholar: 63; i10-index: 98; citations 15,050

H-index Web of Science: 50.

*** or # indicates student or post-doc working in my group**

+ indicates corresponding author

#Guo, Yang, Liqun Peng*, Jinping Tian, and Denise L. Mauzerall+. 2023. "[Deploying Green Hydrogen to Decarbonize China's Coal Chemical Sector](#)". *Nature Communications* 14.

*Peng, Liqun, Denise L. Mauzerall+, Yaofeng D. Zhong, and Gang He. 2023. "[Heterogeneous Effects of Battery Storage Deployment Strategies on Decarbonization of Provincial Power Systems in China](#)". *Nature Communications*.

#Liang, J, YL Qiu, P Liu, P He, and DL Mauzerall. 2023. "[Effects of Expanding Electric Vehicle Charging Stations in California on the Housing Market](#)". *Nature Sustainability*.

*Fu, Xiangwen, Denise L Mauzerall+, and Anu Ramaswami+. 2023. "[Public and Private Transportation in Chinese Cities: Impacts of Population Size, City Wealth, Urban Typology, the Built Environment, and Fuel Price](#)". *Environmental Research: Infrastructure and Sustainability*.

#Guo, Yang, Mi Zhou#, Liqun Peng*, Juhua Yang, Mingwei Li#, Jinping Tian, Lyujun Chen+, and Denise L. Mauzerall+. 2023. "[Carbon Mitigation and Environmental Co-Benefits of a Clean Energy Transition in Chinas Industrial Parks](#)". *Environmental Science & Technology*.

Riddick, Stuart N., and Denise L. Mauzerall. 2023. "[Likely Substantial Underestimation of Reported Methane Emissions from United Kingdom Upstream Oil and Gas Activities](#)". *Energy and Environmental Science*.

*Peng, L, Y Guo#, S Liu#, G He, DL Mauzerall+. 2023 in press. Subsidizing grid-based electrolytic hydrogen could increase greenhouse gas emissions in coal dominated power systems. *Environmental Science and Technology*.

*Fu, X, J Cheng, *L Peng, #M Zhou, D Tong, DL Mauzerall+. 2023 in press. Co-benefits of transport demand reductions from compact urban development in Chinese cities. *Nature Sustainability*.

Guo^, Yang, Denise L. Mauzerall+, Yizheng Lyu, Wanqiu Hu, Jinping Tian, and Lyujun Chen. "[Benefits of infrastructure symbiosis between coal power and wastewater treatment](#)." *Nature Sustainability*, (2022)

SN Riddick and DL Mauzerall. Likely substantial underestimation of reported methane emissions from United Kingdom upstream oil and gas activities. *Energy and Environmental Science*. (2022) DOI: 10.1039/D2EE03072A

S Liu, H Liu, and DL Mauzerall+. Improving Building Envelope Efficiency Lowers Costs and Emissions from Rural Residential Heating in China, *Environmental Science & Technology*, 2022.

Guo[^], Yixin, Pan He, Tim D. Searchinger, ..., Xin Zhang, Lin Zhang, and Denise L. Mauzerall⁺. “[Environmental and human health trade-offs in potential Chinese dietary shifts.](#)” *One Earth* 5 (2022).

#Disha Sharma & Denise L. Mauzerall⁺, Analysis of Air Pollution Data in India between 2015 and 2019, *Aerosol and Air Quality Research*, 22, 210204, (2022) <https://doi.org/10.4209/aagr.210204>.

Mauzerall, Denise L.⁺ “[A conversation on the impacts and mitigation of air pollution.](#)” *Nature Communications* (2021).

#Mi Zhou, Hongxun Liu[#], Liqun Peng[#], Yue Qin, Dan Chen, Lin Zhang, Denise L. Mauzerall⁺, Environmental benefits and household costs of clean heating options in northern China. *Nature Sustainability*, <https://doi.org/10.1038/s41893-021-00837-w>, 2021.

Y Qin, M Zhou[#], D Pan, Z Klimont, DB Gingerich, DL Mauzerall, L Zhao, G He, JM Bielicki, Environmental consequences of potential strategies for China to prepare for natural gas import disruptions, *Environmental Science and Technology*, (2021)

#Chen, Xu, and Denise L. Mauzerall⁺. “[The Expanding Coal Power Fleet in Southeast Asia: Implications for Future CO₂ Emissions and Electricity Generation.](#)” *Earth's Future* 9, no. 12 (2021).

#Zhongshu Li, Kevin Gallagher, Xu Chen[#], Jiahai Yuan, Denise L. Mauzerall, Pushing out or pulling in? The determinants of Chinese energy finance in developing countries. *Energy Research & Social Science* 86 (2021).

#Tao, Yiheng, Ryan W. J. Edwards, Denise L. Mauzerall, and Michael A. Celia. “[Strategic Carbon Dioxide Infrastructure to Achieve a Low-Carbon Power Sector in the Midwestern and South-Central United States.](#)” *Environmental Science & Technology* (2021).

#Peng, Liqun, Feiqi Liu[#], Mingwei Li[#], Qiang Zhang, and Denise L. Mauzerall⁺. “[Alternative-energy-vehicles deployment delivers climate, air quality, and health co-benefits when coupled with decarbonizing power generation in China.](#)” *One Earth* 4 (2021).

Xu, Ming, Glen T. Daigger, Chuanwu Xi, Jianguo Liu, Jiahui Qu, Pedro J. Alvarez, Denise L. Mauzerall, et al. “[U.S.–China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development.](#)” *Environmental Science & Technology* 55 (2021).

#Chen, Xu, Zhongshu Li[#], Kevin P. Gallagher, and Denise L. Mauzerall⁺. “[Financing carbon lock-in in developing countries: Bilateral financing for power generation technologies from China, Japan, and the United States.](#)” *Applied Energy* 300 (2021).

Ocko, Ilissa B; T Sun, D Shindell, M Oppenheimer, A N Hristov, SW Pacala, DL Mauzerall, Y Xu, SP Hamburg. “[Acting rapidly to deploy readily available methane mitigation measures by sector can immediately slow global warming.](#)” *Environmental Research Letters* (2021)

#Liu, Feiqi, Denise L. Mauzerall⁺, Fuquan Zhao, and Han Hao. “[Deployment of fuel cell vehicles in China: Greenhouse gas emission reductions from converting the heavy-duty truck fleet from diesel and natural gas to hydrogen.](#)” *International Journal of Hydrogen Energy* (2021).

#Pan, Da, ... Mauzerall DL, Zondlo, MA. Methane Emissions from Natural Gas Vehicles in China, *Nature Communications*, 10.1038/s41467-020-18141-0, (2020).

- Hess, Jeremy J., and et al. “Guidelines for Modeling and Reporting Health Effects of Climate Change Mitigation Actions.” *Environmental Health Perspectives* 128, no. 11 (2020).
- *Chen, Xu, Kevin P. Gallagher, and Denise L. Mauzerall*. “[Chinese Overseas Development Financing of Electric Power Generation: A Comparative Analysis.](#)” *One Earth* 3 491-503 (2020).
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INVITED SEMINARS AND CONFERENCE PRESENTATIONS

4/29/2021 *Win-win opportunities to improve air quality, decrease GHG emissions, and increase solar PV generation, Nature Conferences: Sustainable solutions for pollution control.* (virtual)

8/2/2021 *Climate Change and Our Future: What We Must Do.* Racing Beach Association, Woods Hole MA.

11/14/2021 *Evaluating opportunities to simultaneously address air pollution and greenhouse gas mitigation in China,* Fung Global Fellows forum, Princeton University (virtual)

12/6/2020 *Evaluating Opportunities to Simultaneously Address Air Pollution and Greenhouse Gas Mitigation in China.* Keynote Talk. International Conference on Applied Energy, (Bangkok, Thailand - Virtual)

Evaluating Opportunities to Simultaneously Address Air Pollution and Greenhouse Gas Mitigation in China. Stanford Natural Gas Initiative, November 4, 2020 (Stanford University - Virtual)

Evaluating Opportunities to Simultaneously Address Air Pollution and Climate Change, 2020 Pujiang Innovation Forum, August 31, 2020 (Shanghai, China – Virtual)

Policy Relevant Science: Linking Strategies to Address Air Pollution, Health and Greenhouse Gas Mitigation, Chadha Center for Global India, Princeton University, March 27, 2020 (Virtual)

Climate Change: Science and Policy Princeton Journeys, National Geographic Endeavor, Antarctica, December 18, 2019.

The World's Most Successful Environmental Treaty: The Montreal Protocol to Protect the Stratospheric Ozone Layer. Princeton Journeys, National Geographic Endeavor, Antarctica, December 14, 2019.

Antarctic Ozone Hole: Causes and Solutions. Princeton Journeys, National Geographic Endeavor, Antarctica, December 12, 2019

High level forum on air quality, climate change and human health, Energy Foundation, Beijing, China, November 20, 2019.

Faculty Panel. What does global India mean to me and to the world? M.S. Chadha Center for Global India, Princeton University, November 13, 2019.

Policy Relevant Science: Linking Strategies for Air Pollution and Greenhouse Gas Mitigation. U.S.-China Environment and Sustainability Forum, University of Michigan, October 3, 2019.

Policy Relevant Science: Air quality, Greenhouse Gas and human Health Benefits of Replacement Options for Coal Heating Stoves in China, Civil and Environmental Engineering department, Princeton University, September 27, 2019

Replacement options for coal heating stoves in the residential sector: Air quality, greenhouse gas and human health benefits, plus costs of substitution, College of Environmental Sciences and Engineering, Peking University, June 27, 2019

Replacement options for coal heating stoves in the residential sector: Air quality, greenhouse gas and human health benefits, plus costs of substitution, Co-benefits of a Sustainable Energy Transition workshop, Tsinghua University, June 2, 2019.

Potential Potential Air Pollution, Health and Climate Implications of China's Energy Future, ETH-Zurich, March 12, 2019.

A Planet in Danger: Pulling the Planet back from the Brink. Academic and Administrative Managers Group Meeting, Princeton University, February 6, 2019.

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Potential Air Pollution, Health and Climate Implications of China's Energy Future, OGCI Climate Investments, Andlinger Center for Energy and Environment, Princeton University, May 10, 2018.

Potential Air Pollution, Health and Climate Implications of China's Energy Future, Global Development Policy Center, Boston University, April 25, 2018.

Potential Air Pollution, Health and Climate Implications of China's Energy Future, Harvard Kennedy School of Government, April 23, 2018.

A Planet in Danger: Climate Change and Its Consequences for Global Society, Griswold Symposium, Center for Economic Policy Studies, Princeton University, February 10, 2018.

Co-benefits of Air Quality Improvements for Solar PV Electricity Generation, Peking University, Beijing, China, January 26, 2018.

Potential air pollution, health and climate implications of China's energy future, china Energy Modeling Forum, Tsinghua University, January 24, 2018

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Keynote Speaker. Philadelphia Science Rally, Philadelphia, PA, April 22, 2017.

Potential Air Pollution, Health and Climate Implications of China's Energy Future. Carnegie Mellon University, Pittsburgh, PA, April 6, 2017.

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Ask about air pollution. World Economic Forum, Davos, Switzerland, January 20, 2017.

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Nitrogen, Ozone and Water: Key Factors Impacting Sustainable Intensification of Crop Production, Chinese University of Hong Kong, Hong Kong, October 31, 2016

Air Pollution and Climate Implications of China's Energy Future, Chinese University of Hong Kong, Hong Kong, October 31, 2016.

Potential Air Pollution, Health and Climate Implications of China's Energy Future, STEP seminar, Princeton University, November 28, 2016

Environmental Implications of China's Energy and Agricultural Future, Faculty Forum, Woodrow Wilson School of Public and International Affairs, Princeton University, September 20, 2016.

Climate, Air Quality and Health Implications of China's Energy Future, IIASA, Vienna, Austria, August 30, 2016.

Managing Nitrogen for Sustainable Development, Nitrogen 2016, EMBO conference, Montpellier, France, August 24, 2016.

Climate, Air Quality and Health Implications of China's Energy Future, Research Experience for Undergraduates summer program, Princeton University, July 27, 2016.

Using TEMPO to Evaluate the Impact of Ozone on Agriculture, TEMPO Satellite Applications Workshop, Shelby Center for Science and Technology, Huntsville, AL, July 12, 2016.

Climate Modeling and Impact Assessments: Air Pollution and Agriculture, Ron Stauffer symposium, Geophysical Fluid Dynamics Laboratory, Princeton, NJ June 6, 2016.

Climate, Air Quality and Health Implications of China's Energy Future, China Environmental Scholar's Forum, Princeton University, June 4, 2016.

Climate, Air Quality and Health Implications of China's Energy Future, Lawrence Berkeley National Laboratory, Berkeley, CA, March 22, 2016.

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- Climate, Air Quality and Health Implications of China's Energy Future, Energy Resource Group, University of California – Berkeley, CA, February 24, 2016.
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- Field Measurements of Methane leakage from Abandoned Oil and Gas Wells, Methane Research Group, Stanford University, Stanford, CA, February 3, 2016.
- Climate, Air Quality and Health Implications of China's Energy Future. Atmosphere Energy Program, Stanford University, Stanford, CA, January 19, 2016.
- Climate, Air Quality, Health and Agricultural Implications of China's Energy Future, Climate and Health seminar series, Columbia University, October 29, 2015
- Climate, Air Quality, Health and Agricultural Implications of China's Energy Future, Atmospheric Chemistry program and Harvard China Project, Harvard University, October 22, 2015.
- Climate, Air Quality, Health and Agricultural Implications of China's Energy, Systems Engineering Department, Cornell University, September 11, 2015.
- Ozone Impacts on Crop Yields: Regional and Global Assessments and Mitigation Potential, (with R van Dingenen, S Avnery, LW Horowitz, AM Fiore, J Liu and F Dentener, Hemispheric Transboundary Air Pollution meeting, Beijing, China, May 21, 2014.
- Ozone Impacts on Crop Yields: Regional and Global Assessments and Mitigation Potential, (with R van Dingenen, S Avnery, LW Horowitz, AM Fiore, J Liu and F Dentener, International Conference on Ozone and Plants, Beijing, China, May 17, 2014.
- Population Growth, Climate Change and the Future of the Planet, Energy Policy Institute, University of Chicago, April 8, 2014
- Climate Change: A Planet in Peril, Nassau Club, Princeton, NJ, April 2, 2014
- Air Pollution in China - Impacts on Climate, Health and Food Security, Princeton University, March 14, 2014
- China and the Environment, Office of the Chief Economist, U.S. Department of State, Washington D.C., November 8, 2013
- Air Pollution Mitigation in China, Potential Implications for Climate Change, China FAQs webinar, World Resources Institute, November 1, 2013
- Impacts of Surface Ozone Pollution on Global Agriculture: Present, Future Projections, and Strategies to Reduce Damages, AgMIP Global Workshop, Columbia University, October 28, 2013
- World Resources Institute, press conference on China's air quality, July 2, 2013.
- Mauzerall, DL, Zhu, T., Keohane, R., moderator: T. Christiansen. Panel Discussion, Interconnections between air pollution and climate change in China. PIIRS and Princeton-Harvard China and the World program, Princeton University, February 27, 2013

Air Pollution in the Future City, Princeton-Fung Global Forum, Shanghai China, February 1, 2013.

A post-Kyoto partner: Considering the stratospheric ozone regime as a tool to manage nitrous oxide, Peking University, Beijing, China, January 28, 2013

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A Planet in Peril: Climate Change and its Consequences for Global Society, Junior Summer Institute, Woodrow Wilson School, July 11, 2012.

Methane Mitigation: Benefits for air quality, health, crop yields and climate. Air Pollution and Climate Symposium: Creating a science-policy dialogue in Asia, Taipei, Taiwan, November 7, 2011.

Complements to Carbon: Opportunities for near-term action on non-CO2 climate forcers, Woods Hole Research Center, Woods Hole, MA, August 4, 2011.

Long-range Transport of Air Pollution, Health Effects Institute Annual Meeting, Boston, MA. May 3, 2011.

Making Energy Choices that have Co-Benefits for Air Quality, Health and Climate, Rutgers Energy Institute, New Brunswick, NJ, October 8, 2010.

Assessing the Climatic Benefits of Black Carbon Mitigation, The Energy and Resources Institute (TERI), Delhi, India, July 14, 2010.

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Assessing Climate Benefits of Carbonaceous Aerosol Emission Reductions. Addressing black carbon and ozone as short-lived climate forcers. EPA workshop, Chapel Hill, NC March 3-4, 2010.

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Interconnections between air pollution, radiative forcing, and adverse impacts on health and agriculture: an examination of black carbon, sulfate aerosols and ozone. Atmospheric Chemistry seminar series, Harvard University, January 22, 2010.

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Air Quality and Climate Change: Options for “Co-benefits”, World Bank, Washington D.C., (May 2007)

Surface Ozone Distributions and Their Impact on Grain Production in China, Japan and South Korea: 1990 and 2020, University of Tokyo, Tokyo, Japan. (March 2007)

Surface Ozone and its Impact on Grain Yields, Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China (March 2007)

It's Not Just about Climate Change: How Reducing Methane Emissions Can Improve Air Quality and Global Public Health, Congressional briefing, Rayburn building, Washington D.C. (May 2006)

Health Implications of Regional and Long-Range Transport of Air Pollutants, Health Effects Institute annual meeting, San Francisco, CA (April 2006)

Evaluating the Impact of Air Pollution on Agriculture and Human Health in China, Project Asian Brown Cloud (ABC): The First Workshop on the Impact Assessment Program, Bangkok, Thailand (December 2005)

Local and regional air pollution and its impacts on human health and crops – and its linkages to GHG abatement, Mitigation of air pollution and climate change in China: A policy workshop on co-benefits and co-control, Beijing, China (November 2005)

Air Pollution: Science, Impacts and Policy, Department of Atmospheric and Oceanic Science, University of Maryland, College Park, MD (October 2005)

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Evaluating Impacts of Air Pollution in China on Public Health: Implications for Future Air Pollution and Energy Policies, International Association of Meteorology and Atmospheric Sciences, Beijing, China (August 2005)

Assessing Global Radiative Forcing due to Regional Emissions of Tropospheric Ozone Precursors: A Step Towards Climate Credit for Ozone Precursor Emissions, International Association of Meteorology and Atmospheric Sciences, Beijing, China (August 2005c)

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An Integrated Assessment of the Impacts of Air Pollution on Health in Eastern China: A valuation with implications for future air pollution and energy policies, Air Pollution as a Climate Forcing workshop, East-West Center, Honolulu, Hawaii. (April 2005)

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Charging NO_x Emitters for Health Damages: An Exploratory Analysis, National Bureau of Economic Research, Environmental Economics working group, Cambridge, MA. (April 2005)

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Air Pollution Impacts: From Effects on Agriculture and Health in China to a New Proposal for U.S. NO_x Emission Control, Environmental and Societal Impacts Group, National Center for Atmospheric Research, Boulder, CO. (June 2004)

U.S. Air Quality: A New Proposal for Domestic NO_x Emission Control and an Examination of Inter-Annual Variability in Trans-Pacific Transport, [National Oceanic and Atmospheric Administration](#) Aeronomy Lab, Boulder CO. (June 2004)

Analysis of Seasonal and Inter-Annual Variability in Trans-Pacific Transport, Vertical and long-range transport of trace gases and aerosols session, European Geosciences Union 1st General Assembly, Nice, France. (April 2004)

The Cost of Dirty Air: Using Atmospheric Models to Quantify the Impact of Air Pollution on Agriculture and Human Health in China, Harvard University Center for Environment: China project, Harvard University, Cambridge, MA. (April 2004)

From regional to global: Using science to develop sound air quality policy, Princeton Environmental Institute Associated Faculty Forum, Princeton, NJ. (April 2004)

Linking Air Pollution to Health and Agricultural Damages: U.S. and China, Sustainability Seminar Series, New Jersey Department of Environmental Protection, Trenton, NJ (April 2004)

Nitrogen Oxide Emissions from Power Plants – How Damage Varies in Space and Time: Should Emission Charges Vary with Damage?, Woodrow Wilson School Washington Seminar Series, Washington D.C. (March 2004)

Air Pollution in Asia: Assessing Impacts on Agricultural and Forest Productivity, Bangkok, Thailand. (declined due to prior commitment) (November 2003)

MOZART-2 Applications, GEOS-CHEM meeting, Harvard University, Cambridge, MA (June 2003)

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The Adverse Impact of Surface Ozone on Agricultural Crops, Air Pollution as a Climate Forcing workshop, Honolulu, Hawaii. (April 2002)

Transport of Ozone and Related Air Pollutants in the Boundary Layer over East Asia: A global modeling analysis, Center for Environmental Sciences, Beijing University, Beijing, China (October 2001)

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Transport of Ozone and Related Air Pollutants in the Boundary Layer over East Asia: A global modeling analysis, Joint Sino-US workshop on China-MAP, Hong Kong (September 2001)

Intercontinental Transport of CO, NO_x, and PAN from Fossil Fuel and Biomass Burning Emissions, Photooxidants, Particles, and Haze across the Arctic and North Atlantic: Transport Observations and Models Workshop, Columbia University Lamont-Doherty Earth Observatory, Palisades, New York. (June 2001)

Escalating Interconnections between Regional and Global Air Pollution: Science and International Policy, Energy and Resources Group Colloquium, University of California, Berkeley, CA. (April 2001)

Linkages Between Regional and Global Air Pollution: Reconciling Science and Policy, Princeton Environmental Institute Associated Faculty Seminar Series, Princeton University, Princeton, NJ. (April 2001)

Photochemical Budgets and Fluxes of O₃, CO, HNO₃ and PAN over East Asia, International Institute for Applied System Analysis, Laxenburg, Austria. (September 2000)

Comparison of Boundary Layer Regional Photochemical Budgets: East Asia, United States and Europe, Aspen Global Change Institute, Aspen, CO. (August 2000)

The Interconnections between Local, Regional and Global Air Pollution, Center for Energy and Environmental Studies, Princeton University, Princeton, NJ. (April 1999)

The Potential Impact of Asian Development on Global Air Quality, Woodrow Wilson School, Princeton University, Princeton, NJ. (March 1999)

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Protecting Stratospheric Ozone: the EPA's Domestic and International Role, School of Engineering, University of Colorado, Boulder, CO. (February 1997)

Origin of Tropospheric Ozone at Remote Northern Latitudes in Summer, Atmospheric Chemistry Conference for Emerging Senior Scientists (ACCESS) (June 1995)

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Xiaoyuan Li, Junfeng Liu, **Denise L. Mauzerall**, Louisa K. Emmons, Larry W. Horowitz, Yixin Guo and Shu Tao. "Effects of trans-Eurasian transport of air pollutants on surface ozone concentrations over Western China". Abstract A51B-0034. AGU Fall meeting, San Francisco, CA, Dec 14-18, 2015.

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Junnan Yang and **Denise L. Mauzerall**. Distributed solar PV generation in China: air quality benefits, existing barriers and future development. Princeton E-affiliates Partnership Third Annual Meeting, Princeton University. Nov 2014.

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H41-L04 Projections of Virtual Water Trade Under Agricultural Policy Scenarios in China, Dalin, C, N Hanasaki, H Qiu, **DL Mauzerall** and I Rodriguez-Iturbe, AGU Fall Meeting, 2014.

A51Q-08 Future Projections of Aerosol Optical Depth, Radiative Forcing, and Climate Response Due to Declining Aerosol Emissions in the Representative Concentration Pathways, Westervelt, D, **DL Mauzerall**, LW Horowitz, V Naik, AGU Fall Meeting, 2014.

B21F-0101 Projecting Future Nitrous Oxide Emissions From Agriculture: Importance of Ecological Feedbacks and the Environmental Benefits of Improved Nitrogen Use Efficiency, D Kanter, X Zhang, E Shevliakova, S Malyshev, **DL Mauzerall**, AGU Fall Meeting, 2014.

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A53H-3307 Conceptually Characterizing the Radiative Effects of Black Carbon Internal Mixing, X Li, Y Ming, **DL Mauzerall**, AGU Fall Meeting, 2014.

GC43F-06 Managing Nitrogen in the anthropocene: integrating social and ecological science, X Zhang, D Kanter, **DL Mauzerall**, E Davidson, R Cai, T Searchinger, AGU Fall Meeting, 2014.

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Reid, M.C., K. Guan, and **D.L. Mauzerall**. Global-Scale Methane Emissions from On-Site Wastewater Management. AGU Fall Meeting, San Francisco, CA, December 2013.

X. Zhang, **D. L. Mauzerall**, Impediments in improving nitrogen use efficiency in crop production – an economic perspective, the 6th International Nitrogen Conference, Kampala, Uganda, Nov. 18, 2013.

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Abstract A43E-0184. Air pollution and associated human mortality: The role of air pollutant emissions, climate change and methane concentration increases during the industrial period *Yuanyuan Fang; Vaishali Naik; Larry W. Horowitz; Denise L. Mauzerall*, American Geophysical Union Fall meeting, December 2012.

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