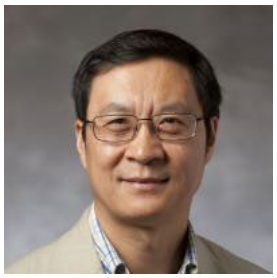
Updated March 2025

JUNFENG (JIM) ZHANG

CURRICULUM VITAE



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I. EDUCATION

Degree	School	Date	Concentration
B.S.	Peking University, Beijing, China	1985	Applied Chemistry
M.S.	Peking University, Beijing, China	1988	Atmospheric Chemistry
M.S	Rutgers University, New Brunswick, NJ	1991	Environmental Sciences
Ph.D.	Rutgers University and the University of Medicine and Dentistry of New Jersey, Piscataway, NJ (Paul Lioy, Advisor)	1994	Environmental Sciences and Public Health
Postdoctoral	East-West Center, Mentored by Kirk R. Smith, UC-Berkeley	1994-1995	Environmental health and Policy

Special Training

- Attended “Stand and Deliver” Workshop by Steve Adubato, PhD, consisting of six two-hour sessions on “Speak from the Heart”, a UMDNJ effort of leadership development, 2005.
- Attached one-day “Ready for Media” training at University of Southern California, with hand-on training on how to effectively communicate with the media and the public about scientific discoveries, 2012.
- Participated in Teaching for Equity Fellow Program of Duke University, the program includes 48 hours of in class training plus homework of reading assignments, August 2018- April 2019. The program provides training to effective teaching to all including those who are underprivileged.

Honors and Awards

- Outstanding Graduate 1985 (Highest Honors), by Peking University and numerous awards during undergraduate and graduate study at Peking University (1981-1988).
- Second place of the National Best Books on Environmental Knowledge, Beijing, China. Book title: "A Treasure Box of Environmental Knowledge," 1990.
- First place of the National Hongyu (Rainbow and Rain) Cup Contest of Poetry and Words in Beijing, China. Winning poem title: "Memory Serenade" 1992.

- Second place, Contest of Student Paper Session, 39th Anniversary Conference of Air & Waste Management Association, Mid-Atlantic States Section, Atlantic City, NJ. Paper title: "Indoor AIR chemistry: ozone, aldehydes, and organic acids in residential air," 1993.
- Distinguished Lectureship Award (for presenting a short course on Indoor Air Pollution and Exposure Assessment), presented by College of Environmental Sciences and Engineering, Nan Kai University, Tianjin, China, 2002.
- For contributing to the award of the Nobel Peace Prize for 2007 to IPCC, presented by the Intergovernmental Panel on Climate Change (IPCC), 2007.
- Honorary Member of Delta Omega, the honorary society for graduate studies in public health, 2008.
- Excellence in Research Award for 2007-2008 by the Foundation of University of Medicine and Dentistry of New Jersey, 2008.
- Excellence in Teaching Award for 2008-2009 by the Foundation of University of Medicine and Dentistry of New Jersey, 2009.
- Inducted to the Stuart D. Cook Master Educators' Guild, University of Medicine and Dentistry of New Jersey, 2009.
- Jerome J. Wesolowski Award, the highest award of the International Society of Exposure Science (ISES), to recognize sustained and outstanding contributions to the knowledge and practice of human exposure assessment, 2012.
- Distinguished Alumni Award, by the Graduate School-New Brunswick, Rutgers University, for outstanding achievement in the Physical and Mathematical Sciences, 2013.
- Dennis M. Fenton Graduate Student Alumni Award, presented by the Cook Community Alumni Association, Rutgers University, 2013.
- Fellow of American Association for the Advancement of Science (AAAS), 2013.
- Otto Mønsted Visiting Professor, Department of Civil Engineering, The Technical University of Denmark. August – October, 2021.
- Journal of Thoracic Disease's Outstanding Contribution Award in recognition of my outstanding contributions serving as the section director and guest editor to the journal, December 2023.

II. EMPLOYMENT HISTORY

Academic Appointments (in chronological order)

- Fellow (Research Associate), Program on Environment, the East-West Center, Hawaii, 1994-1995.
- Assistant Professor, Department of Environmental and Community Medicine, the University of Medicine and Dentistry of New Jersey (merged into Rutgers University in c.a. 2012), Robert Wood Johnson Medical School, 1995-2001.
- Member, Exposure Measurement and Assessment Division, Environmental and Occupational Health Sciences Institute (EOHSI), Rutgers University, 1995-2010.
- Lecturer, TH Huxley School of Environment, Earth Science and Engineering, Imperial College London, 2000-2001.
- Adjunct Research Professor, China National Environmental Monitoring Center, 2000-2004.
- Associate Professor, Department of Environmental and Occupational Health, School of Public Health – University of Medicine and Dentistry of New Jersey (now Rutgers University), 2001-2006.
- Faculty Member, Joint Graduate Program in Toxicology of UMDNJ and Rutgers University, 2005-2010.
- Graduate Faculty, Department of Environmental Sciences, Rutgers University, 1996-2010.
- Member, the Cancer Institute of New Jersey, 2002- 2010.

- Faculty member, the Graduate School of Biomedical Sciences at University of Medicine and Dentistry of New Jersey, 1996-2010.
- Guest Professor, College of Environmental Sciences and Engineering, Peking University, 2004-2007, 2014-present.
- Professor (with tenure) of Environmental and Occupational Health, School of Public Health – University of Medicine and Dentistry of New Jersey (now Rutgers University), 2006-2010.
- Adjunct Professor, Department Environmental and Occupational Health, School of Public Health, Rutgers University, 2010-2015.
- Professor (with tenure), Department of Preventive Medicine, Keck School of Medicine, the University of Southern California, 2010-2013.
- Professor of Global and Environmental Health, the Nicholas School of the Environment, Duke University, 2013- present.
- Professor, Duke Global Health Institute, Duke University, 2013-present.
- Member, University Program on Environmental Health (Integrated Toxicology and Environmental Health), Duke University, 2013-present.
- Research Professor, Duke Kunshan University, 2014-2022.
- Member, Duke Cancer Institute, Duke University, 2015-present.
- Nanshan Guest Professor, Guangzhou Institute of Respiratory Health, Guangzhou Medical University, 2017- 2020.
- Otto Mønsted Visiting Professor, Department of Civil Engineering, The Technical University of Denmark. August -October 2021 (during sabbatical leave from Duke University)
- Visiting Faculty, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia. March -June 2022 (during sabbatical leave from Duke University).

Administrative Appointments and Advisory Leadership (in chronological order)

- Director, International Environmental Health Center, Environmental and Occupational Health Sciences Institute, Rutgers University, 2001- 2004.
- Acting Chair and Chair, Department of Environmental and Occupational Health, the School of Public Health, University of Medicine and Dentistry of New Jersey (now Rutgers University), 2006-2010.
- Associate Dean for the Piscataway/New Brunswick Campus, Associate Dean for Global Public Health, the School of Public Health, University of Medicine and Dentistry of New Jersey, 2008-2010.
- Chair, Executive Committee for the Piscataway/New Brunswick Campus, School of Public Health, University of Medicine and Dentistry of New Jersey, 2008 – 2010.
- Director, Regional Ozone Sino-US Collaborative Research Center, Duke Kunshan University, 2015-present.
- Chair, China Faculty Council, Duke University, 2016-2018.
- Chair, Faculty Council, Duke Kunshan University, 1015-2018.
- Chair, Ecotoxicity and Environmental Health Program, Nicholas School of the Environment, Duke University, 2018-2021.
- Chair, Division of Environmental Sciences and Policy, Nicholas School of the Environment, Duke University, 2022 – 2024.
- Chair, Division of Environmental Natural Science, the Nicholas School of the Environment, Duke University, 2024-present.

Professional/Service Appointments (in chronological order)

- Councilor (Academic), International Society of Exposure Analysis, 2004 -2007

- Member of the New Jersey Clean Air Council, advisory body for the State of New Jersey, appointed by the governor of New Jersey, 2005-2010.
- Member of the Environmental Health Sciences Review Committee of the National Institute of Environmental Health Sciences (NIEHS), which has primary responsibility for reviewing applications for P30 Centers, institutional training grants, career awards, and other specialized program applications, 2011 – 2015.
- Member of the Environmental Protection Agency (EPA) Clean Air Scientific Advisory Committee (CASAC) Oxides of Nitrogen (NOx) Primary National Ambient Air Quality Standards (NAAQS) Panel, charged to review and provide technical advice and policy assessments for NOx. 2013 – 2017.
- Member of the Special Scientific Committee on Unconventional Oil and Gas Development, Health Effects Institute. 2014 – 2015.
- Member of the North Carolina Oil and Gas Commission, appointed by Governor of North Carolina, 2018-2021.

Other Appointments (in chronological order)

- Research and Teaching Assistant, Department of Technical Physics, Peking University, Beijing, China, 1985-1988.
- Consultant, Environmental Protection Office of Peking University, Beijing, China, 1987-1989.
- Executive Director of Management Training Program, Stone Company, Beijing, China, 1988-1989.
- Air Pollution Analyst, Gibbs & Hill, Inc., NY 1990-1990
- Research Assistant, Environmental and Occupational Health Sciences Institute, Rutgers University 1989-1994.

III. TEACHING HISTORY

Courses Taught at Duke University and Duke Kunshan University

- *Air Pollution: from Sources to Health Effects (ENVIRON 642),* graduate level, spring 2014
- *Air Quality I: Sources, Fate and Transport of Pollutants (ENVIRON 603),* spring 2016
- *Air Quality: Human Exposure and Health Effects (ENVIRON 604),* spring 2016, fall 2016, fall 2017, fall 2018, fall 2019, fall 2020.
- *Air Quality: Management (ENVIRON 603),* fall 2020.
- *Air Quality Management: Linking Science to Policy (ENV605, GHL605), fall 2022 (co-teaching with John Vandenberg), fall 2023 (co-teaching with John Vandenberg)*
- *Environmental Exposure Analysis (ENVIRON 780),* Graduate level (co-teaching with Heather Stapleton), fall 2014, fall 2015, fall 2017, fall 2019.
- *Introduction to Global Health,* in Global Health Certificate Program jointly offered by Duke University (DGHI) and Peking University Health Sciences Center, Summer 2013, Sumer 2015, Summer 2016.
- *Global Environmental Health Problems: Principles and Case Studies (ENVIRON 581),* spring 2017, spring 2018, spring 2019, spring 2020, spring 2021, spring 2023.
- *Ecotoxicology and Environmental Health Program Seminars (ENVIRON 898, 75 min weekly),* fall 2019, spring 2020, fall 2020, Spring 2021.
- *Research Independent Study (ENVIRON 393-71).* Rui Liu (Fall 2014, Spring 2015), William Liakos III (spring 2015, fall 2015), Gopi Neppala (fall 2015, spring 2016, fall 2016), Stella Wang (spring 2017), Rafae Alam (fall 2018, spring 2019), Phoebe Kiburi (fall 2019)

Guest Lectured at Duke University

- *Health Education for 2nd Year Medical Students*, fall 2013

- *Environmental Health* (ENV537), Graduate/undergraduate, spring 2014, spring 2015, spring 2016, spring 2017, spring 2019.
- *Environmental Toxicology and Chemistry* (ENV360), Undergraduate, spring 2014, spring 2015, spring 2016, spring 2017, spring 2018, spring 2019
- *Global Health Challenges* (GH570), graduate, fall 2013, fall 2014, fall 2015, fall 2016
- *China GATE-Energy and Environment,* Executive Training Program, Spring 2014

Courses Taught at Rutgers University

- *Indoor Air Quality, Graduate level elective,* fall 2002, fall 2005, fall 2008
- *Introduction to Environmental Health*, Graduate Level Core Course, spring 2002, spring 2003, spring 2005, spring 2007, Fall 2007, fall 2008
- *Environmental Exposure Measurement and Assessment*, Graduate Level Core Course, fall 1996, fall 1998, fall 2001, fall 2003, fall 2005, fall 2007
- *Atmospheric Chemistry,* graduate level course, spring 1998, spring 2000
- *Air Pollution, part of Fundamental Concepts of Environmental Sciences* (II), Graduate level. Spring 1998, spring 1999

Guest Lectured at Rutgers University and University of Southern California

- *Environmental Risk Assessment*, Graduate level, Rutgers/UMDNJ
- *Principles of Air Pollution*, Undergraduate level, Rutgers University
- *Air Sampling and Analysis*, Undergraduate level, Rutgers University
- *Environmental Fate and Transport*, Graduate/undergraduate levels, Rutgers University
- *Environmental and Occupational Toxicology*, Graduate level, Rutgers University
- *Introduction of Global Public Health*, Graduate level, Rutgers University
- *Case Studies in Global Health,* Undergraduate level, 2011, 2012, University of Southern California (USC)
- *Environmental Health: The Growing Impact of Air Pollution on Health,* Undergraduate level Intro to Global Health) 2010, 2011, 2012, and 2013, at USC
- *The Use of Biomarkers in Exposure Assessment,* Graduate level, 2012, USC
- *Expousre Assessment in Environmental Epidemiology,*
- Graduate level, 2006-2009, Rutgers/UMDNJ and in 2012, 2013, USC
- *Exposure Assessment in Environmental Toxicology,* Graduate level, 2006-2009, Rutgers/UMDNJ and 2012, 2013, USC

IV. MENTORING

Rutgers University (1995-2014)

Faculty Mentor for

1. David Rich, ScD, Assistant Profesor, 2007-2009.
2. Derak Shindell, Asssitant Professor, 2008-2010.

Postdoc Mentor for

1. Zhipeng Bai, Ph.D., 1997-2000.
2. Lin Zhang, Ph.D., 1998-2001.
3. In-Kyu Han, Ph.D., 2008-2008.
4. Ananya Roy, Sc.D., 2009-2011.

PhD Advisor for:

1. Thomas Wainman, 1996-1999, Ph.D. in Environmental Sciences 1995-1999. (Co-Chair with Paul Lioy) Dissertation title: "Use of a two-tiered dynamic chamber to investigate indoor air chemistry."
2. Zhengmin Qian, 1997-2002 Rutgers University and UMDNJ-Robert Wood Johnson Medical School, Joint Ph.D. Program in Exposure Assessment. Dissertation title: "Assessing air pollution exposure and health effects on children's respiratory health in four Chinese cities."
3. Daniel Reyner, 2001-2004 UMDNJ- School of Public Health, DrPH in Public Health, 1999–2004. Dissertation title: "Effects of exposure to paternal environmental tobacco smoke, respiratory disease requiring hospitalization, and breast-feeding during infancy on lung functioning".
4. Weili Liu, 2001-2006, Ph.D., Program in Exposure Assessment, 2000 –2006. Dissertation title: "Characteristics of indoor, outdoor, and personal exposure to carbonyl compounds".
5. Kunning Zhu, 2002-2006, Ph.D. in Program in Exposure Assessment (Co-chair of thesis committee with Paul J. Lioy). Dissertation title: "Evaluation and comparison of continuous PM2.5 monitors in measurements of ambient aerosol, fresh diesel exhaust aerosol, and fresh secondary organic aerosol".
6. Stella Tsai, 2000-2007, Ph.D. in Public Health. Dissertation title: "Outdoor aeroallergens, air pollutants, and daily asthma hospitalization in two urban areas of New Jersey".
7. Jason Harrington, 2002-2007, PhD in Program in Exposure Assessment. Dissertation title: "Development and evaluation of airborne carbonyl measurement methods".
8. In-Kyu (Paul) Han, 2002-2008, Ph.D. in Public Health. Dissertation Title: "Urinary 1-Hydroxypyrene in Nonsmokers: A Biomarker for Coke Smoke Exposure and General Urban PAH Exposure"
9. Alyaa Farouk Abdel Fattah Ibrahim, 2010, Faculty of Nursing, Alexandria University, Egypt, degree of Doctor of Community health Nursing. Dissertation title: "the relation between indoor air pollution and child health in Abis rural area in Alexandria". (Served as co-Advisor and hosted Alyaa as visiting student scholar at UMDNJ from 2008 to 2010)
10. Chizoba Nwankwo, 2007-2010, Ph.D. in Public Health. Dissertation title: "Sex differences in response to acute diesel exhaust exposure."
11. Jicheng Gong, 2006-2011, Ph.D. in Program in Exposure Assessment, Dissertation title: "Development and application of exhaled breath biomarkers for studying health effects of air pollution."
12. Brent Altemos, 2008-2014, Rutgers University School of Public Health, PhD in Public Health, Dissertation title: "Air Pollution Source Apportionment Before, During, and After the 2008 Beijing Olympics and Association of Sources to Aldehydes and Biomarkers of Blood Coagulation, Pulmonary and Systemic Inflammation, and Oxidative Stress in Healthy Young Adults".

<u>PhD Committee Member for</u>:

- Linda Bonanno, 2000.
- Sheng-Wei Wang, 1998.
- Pei-Yu Tsai, 2000.
- Nares Chuersuwan, 2001.
- Ho-Jin Lim, 2001.
- Qingyu Meng, 2004.
- Paromita Hore, 2004.
- Jaymin Kawn, 2005.
- Gary Garetano, 2005.
- Chang Ho Yu, 2005.
- Diann Blanset, 2006.
- Steven Spayd, 2009.
- Margaret Lumia, 2007.
- Maria Trabaris, 2008.

- Marija Borjan, 2009.
- Susan Huyck, 2010.

Masters Theses Advisor for

- Tara Proetta, MSc, 2000.
- Glenn Pulliam, MPH, 2008
- Mary Pauline De La Cruz, MPH, 2009
- Michael Carr, MPH, 2010
- Ian Pracher, MPH, 2010
- Jessica Small, MPH, 2010

Staff Supervisor for

- Tseng-Heng Li, Research Assistant, 1995-1996.
- Cheng-Wei Fan, Research Assistant, 1996-1998.
- Yuching Yang, Research Assistant, UMDNJ, 1999-2000.
- Zhi-hua (Tina) Fan, Ph.D., Research Associate, 1998-2000.
- Chen Zhang, Senior Lab Technician, 1997-2006.
- Robert Harrington, Senior Lab Technician, 1999-2005.
- Lin Zhang, Ph.D. Research Teaching Specialist, 2001-2013.
- Jean Tong, M.S. Research Teaching Specialist, 2005-2011.

University of Southern California (2010-2013)

Postdoc Mentor for:

- Jicheng Gong, PhD., 2012-2013.

Masters Theses Advisor for

- Lily Fu, MPH, 2011
- Athena Foong, MS, 2013

Visiting Scholar Mentor for

- Huixin Wu, Kunming Medical University, Yunnan Province, China, 2011-2012.

Staff Supervisor for

- Henock Solomon, M.P.H, Project Specialist, 2011- 2014.
- Yan Chang, PhD, Senior Research Associate, 2011- 2014.
- Wantiang Lin, MSc, Data Analyst, 2012-2013.
- Vikram Paranjpe, Research Assistant, 2011-2013.
- Sanika Gadkari, Research Assistant, 2012-2013.
- Charlene Nguyen, Research Assistant, 2012-2013.

Duke Kunshan University (2015-present)

Faculty Mentor for

- John Ji, ScD. Assistant Professor, 2016-2021

Postdoc Mentor for:

- Jake Chung: 2015-2016
- Yanbo Teng: 2016- 2019
- Zhenchun Yang: 2020-2021

Masters Theses or Projects Advisor for

- Erik Yan, MSc, 2020
- Wenhao Qi, MSc, 2021
- Yang Zhang, iMEP, 2022

Staff Supervisor for

- Yuqiao Song, MS, Research and Administrative Assistant, 2017- 2018.
- Hailong Han, BS, Sr. Lab Technician, 2018-present.

Duke University (2013-present)

Faculty Mentor (co-mentor) for

- William Pan, DrPH, Assistant Professor, 2014-2018.
- Liping Feng, MD, Assistant Professor, 2015- 2021 (primary mentor on NIH K01 grant).
- Mercedes Bravo, PhD, Assistant Research Professor, DGHI, 2022-present

Postdocs mentored

- Jicheng Gong: 2013 –2016
- Minquan Li: 2015-2017
- Yan Lin: 2019- present
- Zhenchun Yang: 2021- 2023
- Shiyu Zhang: 2023-present

PhD Advisor for:

- Drew Day: PhD in Environmental Science, Integrated Toxicology and Environmental Health Program, 2013-2017. Title of Dissertation: “The Effects of Ozone Exposure on Cardiovascular Pathophysiology”
- Xiaoxing Cui: PhD in Environmental Science, Integrated Toxicology and Environmental Health Program, 2013-2018. Title of Dissertation: “The Health Impact of Indoor Air Filtration in Healthy Adults and Asthmatic Children”
- Linchen He: PhD in Environment, 2016-2020. Title of Dissertation: “The role of melatonin in pathophysiologic responses to air pollution exposure”
- Xiangtian Wang, PhD in Environment, 2019-present
- Yihui Ge, PhD in Environment, 2020-present
- Emily Craig, PhD in Environment, 2021-present
- Ruoxue Chen, PhD in Environment, 2022 – present
- Lauren Prox, PhD in Environment, 2023-present

PhD Committee Member for:

- Danielle Botelho, 2015 graduation (External, Rutgers University student)
- Karoline Johnson, 2018 graduation
- Stephanie Hammel, 2019 graduation
- Heidi Vreeland, 2019 graduation
- Igor Popovic, 2023 graduation (External Reviewer, University of Queensland, School of Public Health)
- Jessica Levasseur, 2024 graduation
- Taylor Hoxie, 2022-2024
- Marissa Guttenberg, 2024 graduation

- Rebecca Hoehn, 2024-

Undergraduate Senior Thesis Advisor for

- Rui Wang, 2015
- Gopi Neppala, 2017
- Stella Wang, 2018
- Rafae Alam, 2019
- Grace Zhang, 2022 summer, Huang Research Fellow

Masters Theses or Projects Advisor for

- Chen Liu (MSc in Global Health), 2014-2015
- Pejia Yan (MEM), 2016- 2018
- Gina Daniel (MEM), 2016-2018
- Sun Yan (MEM), 2018-2020
- Yang Wang (MEM), 2018-2020
- Bridget Rogers (MScGH), 2018-2020
- Melissa Marchese (MScGH), 2021-2022 (co-chair of thesis committee)
- Emily Klein (MScGH), 2022-2024 (advisor and thesis chair)
- Hannah Medsker (MScGH), 2022-2024 (thesis committee member, co-advisor)

Visiting Scholar Mentor for

- Yalin Chen, Rizhao City Environmental Sciences Research Institute, China, 2013-2014
- Huijuan Li, PhD, Xuzhou Institute of Technology, China, 2014-2015
- Nan Zhang, PhD student, Tsinghua University, 2014-2015
- Xiaoli Duan, PhD, Chinese Research Academy of Environmental Sciences, Beijing, 2014-2015
- Yongjie Wei, PhD, Chinese Research Academy of Environmental Sciences, Beijing, 2014-2015
- Shunyan Shan, PhD, Nankai University, 2015-2016
- Zongshuang Wang, PhD, Environmental Standards Institute, Beijing, 2016-2017
- Hui Wu, PhD, China Medical University, Shenyang, China, 2016-2017
- Jianbang Xiang, PhD student, Tsinghua University, 2016-2017.
- Qijun Wang, PhD, South China University of technology, 2017-2018.
- Jinpu Jia, East China Normal University, 2017-2018.
- Shanshan Shi, PhD, Nanjing University, 2017-2018.
- Beibei Hu, PhD, Tianjin Normal University, 11/2017- 11/2018.
- Xing Li, MD, Guangdong Provincial Institute of Public Health, 9/2018-9/2019.
- Wu Chen, PhD student, Peking University, 12/2018-6/2019
- Jian Qin, PhD, School of Public Health, Guangxi Medical University, 3/2019-2/2020
- Shuyuan Chu, Internal Medicine, Affiliated Hospital of Guilin Medical University, Guangxi, 6/2019-6/2020
- Xiaoli Wang, PhD, Tianjin University of Technology, Tianjin, 6/2019-3/2020
- Xiaoyin Sun, PhD, Qufu Normal University, Rizhou, Shandong, 8/2019-1/2020.
- Ruifen Shan, PhD, Qufu Normal University, Rizhou, Shandong, 8/2019-1/2020.
- Hui Huang,PhD, Zhengzhou University, Henan Province, 9/2019-9/2020.
- Xiaodong Liu, PhD, Guangzhou Medical University, 2/2020-2/2021.
- Buyantushig Boldbaatar, Mongolian National University of Medical Sciences, 3/2023-6/2023.
- Enkhdulguun Amgalan, Mongolian National University of Medical Sciences, 3/2023-6/2023.

- Bolor Mandakh, Mongolian National University of Medical Sciences, 3/2023-6/2023.
- Ye Fan, PhD, Shanxi Medical University, Taiyan, China, 10/2023-9/2024.
- Qiumei Liu, PhD candidate, Guangxi Medical University, Nanning, China, 2/2024-8/2024.

Staff Supervisor for

- Marlyn Duarte, MS, Data Analyst II, 2014-2016.
- Hailong Han, BS, Laboratory Technician, 2015-2016.
- Rui Wang, BS, Laboratory Technician, 2015-2015.
- Xing (Lucy) Liu, PhD, Research Scientist, 2016-2019.

V. SERVICE

Rutgers University (1995-2013)

- Member of the School-wide Curriculum Committee, UMDNJ-School of Public Health, 2009 – 2010.
- Member of the Appointment and Promotions Committee, UMDNJ-School of Public Health, 2009 – 2010.
- Chair, the Piscataway/New Brunswick Campus Executive Committee, UMDNJ-School of Public Health, 2008- 2010.
- Member of the Dean's Council, UMDNJ-School of Public Health, 2008- 2010.
- Member of the Faculty Search Committee for Department of Environmental Sciences, School of Environmental and Biological Sciences, Rutgers University, 2008 – 2009.
- Member of the *ad hoc* Search Committee for Dean, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, 2007- 2008.
- Member and Discipline Coordinator, Doctoral Committee, School of Public Health, University of Medicine and Dentistry of New Jersey, 2001 – present.
- Member, Graduate Admissions Committee, Department of Environmental Sciences, Rutgers University 1997 – 2005.
- Member, Seminar Committee, Environmental and Occupational Health Sciences Institute (EOHSI) and National Institute of Environmental Health Sciences Center of Excellence at EOHSI, 1997 – 2004.

University of Southern California (2010-2013)

- Member of the Executive Committee, Southern California Environmental Health Sciences Center, University of Southern California, 2011-2013.
- Representative of Institute of Global Health, USC Global Conference 2010 and 2012.

Duke University (2013- present)

- Member of Faculty Search Committee, Department of Civil and Environmental Engineering, Duke University, 2013.
- Member of the Search Committee for Faculty Hire in the area of environmental science and policy, Duke Kunshan University, 2013.
- Chair of the Review Committee for William Pan's reappointment evaluation, Nicholas School of the Environment, Duke University, 2013.
- Member of the Duke University Global Priorities Committee (GPC), the Committee is an advisory body to the Vice President and Vice Provost for Global Strategy and Programs and the Provost. It is charged with reviewing and refining Duke's global strategy and assessing university and academic programs and activities operating globally, both when they are being created and in monitoring ongoing performance, 2015-2021.
- Member, the Academic Council, Duke University, 2017- 2019.

- Member (2015-2016) and Chair (2016-2018) of the China Faculty Council, appointed by Duke Provost. The Council is charged to advise the Provost and the Associate Vice Provost and Director of the Duke Kunshan University Program Office on program development opportunities in China, including for Duke Kunshan University (DKU), 2015-2018.
- Member of Duke Kunshan Hiring Central Committee, this committee vets for quality and /or any other issues arising from the main search committees in departments at Duke Kunshan University, 10/2015-9/2024.
- Chair of the Review Committee for William Pan's Tenure Promotion evaluation, Nicholas School of the Environment, Duke University, 2016.
- Member, Search Committee for Director of Duke Global Health Institute, 2017.
- Co-Chair, DGHI Appointments and Promotion Committee, 2018 -2020.
- Chair, Ecotoxicology and Environmental Health Program, Nicholas School of the Environment. 2019-2021.
- Member, Faculty Review Committee for Heather Stapleton's promotion from associate to full professor, 2019.
- Member, Executive Research Oversight Committee (EROC), 2022 - present
- Chair, Division of Environmental Sciences and Policy, the Nicholas School of the Environment. July 1, 2022-June 30, 2024.
- Member of Duke University Truman Scholarship Endorsement Committee, fall 2022. (Review and select undergraduate student candidates for national competition.)
- Chair, Division of Environmental Natural Sciences, the Nicholas School of the Environment. July 1, 2024-present.
- Member, Duke Provost's *ad hoc* Committee to explore options for satisfying the Southern Association of Colleges and Schools Commission on Colleges and Chinese Ministry of Education accreditation requirements for the Duke Kunshan University undergraduate degree. January – July 2024.
- Member, Duke Provost-appointed DKU Advisory Committee in connection with advising the provost on Duke's continuing role in DKU. October 2024-present.
- Member of Duke University Goldwater Scholarship Review Committee, fall 2024. (Review and select Duke junior and sophomore candidates for national competition on STEM research.)
- Chair, Dean Jerry Lynch Review Committee, fall 2024- spring 2025.

Duke Kunshan University (2014- present)

- Chair of the Duke Kunshan Faculty Council, 2015-2018.
- Lead of Environmental Health Program of the Global Health Research Center, Duke Kunshan University. 2014- 2022.
- Director of Regional Ozone Sino-US Collaborative Center (ROSUC), Duke Kunshan University. 2015- 2020.
- Committee Member for faculty cluster hire for the Environment Program at Duke Kunshan University, 2016-2017.
- Co-Chair for faculty cluster hire for the Global Health Program at DKU, 2016-2019.

Professional Organizations and Governmental Agencies (1995-present)

- Research Workshop, sponsored by US National Institute of Environmental Health Sciences (NIEHS), University of Kebangsaan Malaysia, University of Putra Malaysia, Environmental & Occupational Health Science Institute, NJ, and University of Pittsburgh, PA, 01/2001–05/2001
- Program Co-Chair, International Topical Meeting on Environmental Reliability and Risk Studies, Seoul National University, Seoul, South Korea, Sponsored by US National Science Foundation and co-sponsored by Rutgers University, Seoul National University, and UMDNJ , 02/05-02/05

- Conference Chair, of the Annual Conference of International Society of Exposure Analysis (ISEA) held in October 17-21, 2004 in Philadelphia, USA. 2002-2004
- Member of the International Advisory Committee for the 10th International Healthy Building Conference in 2012 (HB2012), which is the official conference of the International Society of Indoor Air Quality and Climate (ISIAQ) and will take place in Brisbane, Australia, from 8-12 July 2012. 03/2011-07/2012.
- Member of the Review Panel (Search Committee) for Title-42, Director of Human Exposure and Atmospheric Sciences Division, National Exposure Research Laboratory, U.S. Environmental Protection Agency. 2011.
- Member of the World Health Organization (WHO) Working Group charged to Develop Indoor Air Quality
- Guidelines – Household Fuel Combustion. 2011-2012 (meeting held in New Delhi, India 04/24/12-04/26/12).
- Member of 13th International Conference on Indoor Air Quality and Climate (Held in Hong Kong, July 7-12th, China)
- Center for Environmental NanoScience Risk EPA Grantees Meeting (Held in Columbia, SC September 9-10th)
- Member of Special Scientific Committee Meeting on Unconventional Oil and Gas Development (held in Pittsburgh, PA September 8-9th, 2014).
- Member of the 4th International Autism Research Diagnosis & Development Shanghai (held in Fudan University October 1-2nd, 2014, China)
- Member of Environment and Respiratory Diseases Forum (held in Guangzhou November 7-8th, 2014, China).
- Member of Planning Committee and Workshop Coordinator for the Southeast Asian Environmental Health Research Workshop, sponsored by US National Institute of Environmental Health Sciences (NIEHS), University of Kebangsaan Malaysia, University of Putra Malaysia, Environmental & Occupational Health Science Institute, NJ, and University of Pittsburgh, PA, 01/01–05/01.
- Conference Chair, of the Annual Conference of International Society of Exposure Analysis (ISEA) held in October 17-21, 2004 in Philadelphia, USA. 2002-2004.
- Program Co-Chair, International Topical Meeting on Environmental Reliability and Risk Studies, Seoul National University, Seoul, South Korea, Sponsored by US National Science Foundation and co-sponsored by Rutgers University, Seoul National University, and UMDNJ, 02/05.
- Panel member, NIH and EPA workshop on "Reducing the cardiopulmonary impact of particulate matter air pollution in high risk populations", May 29-30, 2019, NHLBI, Bethesda, MA.

Editorial Activities

- Associate Editor (Editorial Board Member), Journal of Exposure Science and Environmental Epidemiology, 2007 – 2015.
- Associate Editor, Air Quality, Atmosphere & Health, 2010 – 2020.
- Associate Editor, Indoor Air, 2012 – 2022.
- Guest Editor, Journal of Thoracic Disease, 2014-2015.
- Editorial Board Member, Journal of Thoracic Diseases, 2015-present.
- Air Pollution Section Director/Editor, Journal of Thoracic Diseases, 2017-present.
- Editorial Board Member, Environmental Science & Ecotechnology, 2019-2022.

Journal Reviewer for

- Analytical Chemistry
- American Industrial Hygienist Association Journal
- American Journal of Respiratory and Critical Care Medicine

- Atmospheric Environment
- Chemosphere
- Energy for Sustainable development
- Environmental Health Perspectives
- Environmental Science & Technology
- Epidemiology
- Indoor Air
- International Journal of Environmental Analytical Chemistry
- Journal of Air & Waste Management Association
- Journal of Exposure Analysis and Environmental Epidemiology
- Journal of Hazardous Materials
- Occupational and Environmental Medicine
- International Journal of COPD
- The Science of Total Environment
- Thorax
- Journal of American Medical Association (JAMA)
- PLOS One
- Environmental Pollution
- Journal of Sports Medicine
- Environment Research
- Environmental Science and Ecotoxicology

Grant Reviewer for

- Peer reviewer of the STAR Research Grants for National Center for Environmental Research and Quality Assurance, US Environmental Protection Agency. EPA Category and Sorting Code: Airborne Particulate Matter Health Effects, 8/99-9/99.
- Site-visit team member for Engineering Research Center (ERC), National Science Foundation (NSF), participated in the site review of a proposed ERC for *Atmospheric Monitoring and Sensor Engineering* at the University of Illinois at Urbana-Champaign, 2/26-27, 1998.
- Reviewer of IPCC Draft Document "Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories". (IPCC: Intergovernmental Panel on Climate Change), 12/99–2/00.
- Peer reviewer of the STAR Research Grants for National Center for Environmental Research and Quality Assurance, US Environmental Protection Agency. EPA Category and Sorting Code: Airborne Particulate Matter Health Effects: Cardiovascular mechanisms 2002-STAR-G1, 06/02 – 07/02.
- Member, the Grant Review Panel for Particulate Matter Research Centers of US Environmental Protection Agency, Washington, DC, 01/25-27, 2005.
- Ad Hoc Member, the Center for Scientific Review Special Emphasis Panel, National Cancer Institute (NCI-NIH), EPIC Study Section, Washington, DC, 04/03/3-4, 2005.
- Ad Hoc Member, the NIEHS P30 Center Site Visit to the University of Southern California (NIEHS-National Institute of Environmental Health Sciences-NIH), 04/27-29, 2005.
- Ad Hoc Member, the Center for Scientific Review Special Emphasis Panel, National Cancer Institute (NCI-NIH), EPIC Study Section, Washington, DC, 06/23-24, 2005.
- Ad Hoc Member, the Center for Scientific Review Special Emphasis Panel, National Cancer Institute (NCI-NIH), Epidemiology of Cancer (EPIC) Study Section, Bethesda, Maryland, 03/02-03, 2006.

- Member of the expert panel drafting IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 95: Indoor air pollution from heating and cooking: coal, biomass, cooking oils and fumes. Lyon, France. (IARC: International Agency for Research on Cancer, Would Health Organization), 10/10-17, 2006.
- Member, National Institute of Environmental Health Sciences Special Emphasis Panel (ZES1 TN-E(FG)), Genetics, Air Pollution, and Respiratory Effects. Durham, North Carolina, 12/15, 2006.
- Member of the Scientific Review Committee, P01 Application on Genetic Role in Health Effects of Air Pollution, National Institute of Environmental Health Sciences – NIH. Durum, North Carolina, 12/15, 2006.
- Member of Review Panel, Fellowship – Toxicology, STAR grants, US Environmental Protection Agency. Washington DC, 2/15-16, 2007.
- Member of the "CDC Grants for Public Health Research Dissertation" Special Emphasis Panel, Atlanta, Georgia, 7/25-26, 2007.
- External Reviewer for Thrasher Research Fund, 2007.
- External Reviewer for the Research Council of Norway, 2007.
- Member of the US Environmental Protection Agency's Peer Review Panel for Fellowship: Environmental Decision-making Research, Washington DC, 1/29-2/1, 2008.
- Member of the US Environmental Protection Agency's Peer Review Panel for Graduate Fellowships: Public Health Sciences and Human Health Risk Assessment, Washington DC, 3/6-3/7, 2008.
- Member of the Environmental Exposures Working Group for the PhenX project – under the NIH Gene-Environment Interaction Initiative, 12/2008 – 5/2009.
- Member of the National Institute of Environmental Health Sciences Special Emphasis Panel (RFA-ES-11-006). Deepwater Horizon Disaster Consortia: Health Impacts and Community Resiliency (U19). Research Triangle Park, NC, 4/6-8, 2011.
- Member of the National Institute of Environmental Health Sciences Special Emphasis Panel (ZES1 LKB-D D). Development to Independence Review Meeting. Research Triangle Park, NC, 11/10, 2011.
- External Reviewer for the Natural Sciences and Engineering Research Council (NSERC) and the Canadian Institutes of Health Research (CIHR). 2011.
- Member of the AAAS Research Competitiveness Program in the review of proposals submitted for funding through the King Abdulaziz City for Science and Technology (KACST). 2012.
- Member of the National Institute of Health Sciences Review Panel for Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) study section. San Francisco, CA, 02/16-17, 2012.
- Member of the National Institute of Environmental Health Sciences Review Committee for the Review of NIEHS P30 Center Grant Applications, EHS (P3). Research Triangle Park, NC, 08/22-23, 2012.
- Member of the National Institute of Environmental Health Science Review Committee for the Review of T32 Training Grants and R25 Grant Applications. Research Triangle Park, NC, 9/15, 2012.
- Member of the National Institute of Environmental Health Science Review Committee for the Review of NIEHS P30 Center Grant Applications. Research Triangle Park, NC, 07/24-26, 2013.
- Member of the Environmental Health Sciences Review Committee and Special Reviewers. Research Triangle Park, August 14-15, 2014.
- Member of the Environmental Protection Agency Peer Review Committee for Air Pollution Monitoring for Communities –K1 (panel 2). Washington, DC January 8-9, 2015.
- Ad Hoc Member of NIH IRAP study section, meeting February 11-12, 2016, Washington, DC.
- Ad Hoc Member of NIH NAME study section, meeting October 6-7, 2016, Washington, DC
- Ad Hoc Member of NIOSH (CDC) World Trade Center Health Program Research Cooperative Agreements Review, April 11-12, 2018. Atlanta, GA.
- Numerous mail and telephone reviews for NIH grants, 2015 - present

- Member of Review Panel, Health Effects Institute, RFA 18-1, “Assessing improved air quality and health from national, regional, and local air quality actions’”. June 26, 2019.
- Member of NIH IRAP study section, review meeting in Seattle, WA, Feb 26-28, 2020.
- Member of NIEHS grants review meetings, Pregnancy as a Vulnerable Period in Women’s Health, Zoom meeting, March 31-April 2, 2020.
- Member of the Strategic Priority Fund for Clean Air Networks Expert Panel, by UK Research and Innovation, Natural Environment Research Council, Zoom meeting June 3-4, 2020.
- Member of the R35 (RIVER) review panel, ZES1LWJ-D, for NIEHS, November 12, 2020. Zoom meeting.
- Member of the NIH IRAP study section, review meeting via Zoom, July 8 and July 9, 2021.
- Member of the NIEHS Time Sensitive R21 review panel, review via Zoom, Aug 12,2021.
- Member of the NIEHS Special Emphasis Panel ZES1 QL-W K2, Review of NIEHS Career and Pathway to Independence Awards, Nov 17, 2022, meeting via Zoom.
- External grant reviewer, Medical Research Council, U.K, April-May 2023.
- Member of the NIEHS Exposome Research Coordination Center Review Panel, ZES1 LW-K U, April 3, 2024, virtual meeting.

Community Service

- Member of the Steering Committee of the New Jersey Comparative Risk Project, New Jersey Department of Environmental Protection, Trenton, New Jersey, 01/00-08/02.
- Mentor of American Chemical Society’s Seed Program to sponsor summer research for high school students, 2002.
- Guest speaker to the Science and Math Awareness Program, Piscataway High School, 1998-2003.
- Mentor for Liberty Science Center Partnership Summer Research Program for high school students, 1997-2010.
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VI: PROFESSIONAL ACTIVITIES

Professional Society Memberships (past and current)

- International Society for Environmental Epidemiology
- International Society of Exposure Science
- American Association for the Advancement of Science
- International Society of Indoor Air Quality and Climate
- American Chemical Society
- Air and Waste Management Association
- American Public Health Association
- American Industrial Hygiene Association

Invited Guest Lectures, Keynote Speeches, and Major Workshop Participation

1. December 9, 1993, Department of Environmental Health, Harvard University School of Public Health, Boston, MA, presented a seminar entitled "Indoor air chemistry: ozone, nitrogen dioxide, aldehydes, and organic acids."
2. February 22, 1994, the John B. Pierce Laboratory and Yale University, School of Medicine, New Haven, Connecticut, presented a seminar entitled "Ozone, nitrogen dioxide, aldehydes, and organic acids in residential air."

3. September 7, 1994, Department of Public Health Sciences, School of Public Health, University of Hawaii at Manoa, Honolulu, Hawaii, presented a lecture entitled "Air pollution: an overview."
4. August 24, 1994, Institute for Techno-Economics and Energy System Analysis, Tsinghua University, Beijing, China, presented a seminar entitled “Energy, greenhouse gas emissions, and health impacts from small-scale combustion devices”
5. November 1, 1994, Institute of Environmental Health & Engineering, Chinese Academy of Preventive Medicine, Beijing, China, presented a seminar entitled "Indoor air pollution and human exposures."
6. April 28-30, 1999, Presented at the IPCC’s Expert Group Meeting on Greenhouse Gases Emission Inventories – Energy Sector, in Prague, Czech Republic (IPCC: Intergovernmental Panel on Climate Change).
7. May 5, 1999, Oregon Graduate Institute of Science and Technology, Beaverton, Oregon, presented a seminar entitled “Air pollution: from sources to health effects.”
8. April 28-30, 1999, presented at the IPCC’s Expert Group Meeting on Greenhouse Gases Emission Inventories – Energy Sector, in Prague, Czech Republic (IPCC: Intergovernmental Panel on Climate Change).
9. March 27, 2000, Imperial College of Science, Technology, and Medicine, London, UK, presented a seminar entitled “Exposure assessment: for what and how?”
10. May 4, 2000, Washington DC. USA. at the Workshop entitled Global Consultation on Health Impacts of Indoor Air Pollution and Household Energy in Developing Countries: Setting the Agenda for Action, sponsored by the US Agency for International Development and the World Health Organization. Presentation title: “Indoor air pollution and respiratory health effects in four Chinese cities”.
11. June 27, 2000, US EPA, Research Triangle Park, North Carolina, at the Workshop on Combining Environmental Fate and Air Quality Modeling, sponsored by the Reactivity Research Working Group, Subgroup 3 on Atmospheric Availability and Environmental Fate, Chemical Manufacturers Association. Presentation title: “Environmental fate of indoor VOC emissions”
12. October 17, 2000, School of Public Health, University of Medicine and Dentistry of New Jersey, Piscataway, New Jersey, presented a seminar entitled “Exposure assessment in environmental health studies: framework and examples.”
13. November 21, 2000, Department of Epidemiology and Public Health, Imperial College of Science, Technology, and Medicine, London, UK, presented a seminar entitled “Effects of air pollution on respiratory health of children and adults in four Chinese cities”.
14. November 27, 2000, School of Public Health, Columbia University, New York, New York, presented a seminar entitled “Exposure assessment in environmental health studies: framework and examples.”
15. May 10, 2001, International Flavors & Fragrances (IFF-US), Hazlet, New Jersey, presented a seminar entitled “Fate of indoor volatile organic compounds.”
16. August 28- 30, 2001, presented keynote lectures at the ’2000 International Conference on Indoor Air Quality (organized by State Environmental Protection Administration of China), Beijing, China. Two presentations entitled “Indoor air pollution: sources, commonly identified compounds and factors determining their concentrations” and “Indoor air pollution: a global overview of health effects and risk management’, respectively.
17. February 4, 2002, presented at International Center for Indoor Environment and Energy, Technical University of Denmark, Copenhagen, Denmark. “Outdoor and indoor air pollution in four Chinese cities: concentrations, sources, and heath effects”
18. November 3, 2002, presented lecture entitled: “Indoor air pollutant mixture: understanding its chemistry and health implications” at a Special Symposium “Advances in Environmental Health: Combining Laboratory and Community Approaches” at ACOH 2002, 17th Asia Conference on Occupational Health, Taipei, Taiwan.

19. May 4, 2003, presented at Annual Conference of Health Effects Institute, Boulder, CO. The title of presentation: “The Four Chinese Cities Study of Air Pollution Health Effects.”
20. June 30, 2003, presented at Lovelace Respiratory Research Institute, Albuquerque, New Mexico. The title of the seminar: “Air pollution health effects in children and adults living in four Chinese cities”.
21. April 22, 2004, presented at Chinese Academy of Meteorological Sciences, Beijing, China. The title of the lecture: “Exposure Analysis in Environmental Health Studies: Framework and Examples”.
22. June 16, 2005, presented an after-dinner keynote address at the 2005 Annual meeting of American Industrial Hygiene Association – New Jersey Section, Basking Ridge, New Jersey. The title of the presentation: “Diesel Exhausts in A Street Canyon: Air Pollution Characteristics and Health Effects in Asthmatic Patients”.
23. September 8, 2005, presented a plenary talk at Indoor Air 2005, September 4-9, Beijing, China. The title of the presentation: “Indoor air pollution from household fuel combustion in China: A review”.
24. November 8-10, 2005, Beijing, China, participated in and presented a keynote address at the International Workshop on Environmental Pollution and Human Health, organized by Chinese Academy of Engineering. The title of the presentation: “Environmental Health Research in the New Biology Era: Challenges and Opportunities”.
25. November 16-18, 2005, Beijing, China, participated in the second Beijing Forum and served as panelist in the sub-group of Public Health and the Building of Harmonious Society.
26. February 28, 2006, New Brunswick, New Jersey, presented a keynote address at a meeting of Academy of Certified Hazardous Material Managers – NJ Chapter. The title of the presentation: “Diesel Exhausts in A Street Canyon: Air Pollution Characteristics and Health Effects in Asthmatic Patient”.
27. April 6, 2006, New Brunswick, New Jersey, presented at Air & Waste Management Association –MASS Specialty Conference entitled Emerging Environmental Issues and Polices. The title of the presentation: “Exposure to Nano-particles”.
28. April 17, 2007, plenary presentation at Health Effects Institute’s Annual Conference in Chicago, IL: “Health effects of real-life exposure to diesel exhaust in a London Street”.
29. July 9-10, 2007, Seoul National University, Seoul, Korea, attended and presented at US-Korea Workshop: Understanding Bioenvironmental Complexity – Trends and Perspectives on Bioenvironmental Complexity Studies in Environmental Health Sciences, sponsored by US National Science Foundation and Korea Science and Engineering Foundation.
30. February 19, 2008, National Health and Environmental Effects Laboratory, US Environmental Protection Agency, presented a seminar entitled: “Acute Exposure to Diesel Exhaust: Respiratory Effects and Exposure Biomarkers”.
31. March 4, 2008, New Jersey Technical Council Conference on Nanotechnology – Identifying Hazards and Evaluating Risks, Piscataway, NJ, presented a lecture entitled “Nano-particle Health Effects: Hypothesized Biological Mechanisms and Supporting Evidence”.
32. March 18, 2008, American Academy of Allergy, Asthma, and Immunology Annual Meeting, Philadelphia, PA, presented an invited lecture (followed by a panel discussion) entitled “Nano-toxicology: Implications in Asthma”.
33. April 14, 2008, American Occupational Health Conference (Sponsored by American College of Occupational and Environmental Medicine), New York, NY, presented a lecture entitled “Health Effects of Air Pollution: Evidence from Real-world Studies”.

34. April 22, 2008, the First Global Health Symposium sponsored by College of Public Health, The University of Georgia, Athens, GA, presented a keynote address entitled “Health Effects of Air Pollution: from London to Beijing”
35. October 23, 2008, Duke Global Health Institute and Nicolas School of the Environment, Duke University, Durham, North Carolina, presented a seminar entitled: “Air Pollution: Contribution to the Global Burden of Diseases and Biological Mechanisms”.
36. November 7, 2008, the 4th Regional Air Quality Management Conference, sponsored by US EPA and Chinese Administration of Environmental protection, Beijing, China, presented an invited talk: “Does Air Pollution Reduction during the Beijing Olympics Improve Cardio-respiratory Health?”
37. November 10, 2008, The University of Hong Kong, presented a seminar to the Public Health Research Center and Medical & Health Research Network: “Exploring Mechanisms of Air Pollution Health Effects: from London to Beijing”.
38. November 13, 2008, Better Air Quality Conference, Bangkok, Thailand, presented a sub-plenary talk entitled “Lessons Learned from the Beijing Olympics” and panel discussion on Air Quality - Impacts on Vulnerable Populations: Health Effects, Exposure, and Climate Change.
39. January 22, 2009, University of Southern California, Los Angeles, California, presented a seminar at the Southern California Environmental Health Sciences Center, entitled “Exploring Mechanisms of Air Pollution Health Effects: from London to Piscataway to Beijing”.
40. April 9, 2009, University of Southern California, Los Angeles, California, presented a seminar at the Southern California Environmental Health Sciences Center, entitled “Exposure Science in Global Environmental Health Studies”.
41. May 12, 2009, Woodrow Wilson International Center for Scholars, Washington, DC, presented at the China Forum on “Does Air Pollution Reduction during the Olympics Improve Cardio-respiratory Health?”
42. July 17, 2009, presented at Informational Briefing on Air Pollution in and around Schools, in conjunction with the Congressional Children’s Environmental Health Caucus lead by Rush Holt (D-NJ) and Frank LoBiondo (R-NJ). Title of presentation: “Air Pollution Health Effects: Old and New Evidence in urban Residents”.
43. October 9, 2009, presented at University of California-Irvine’s Conference “Towards a Sustainable 21th Century: Stopping the Pollution of the Planet”, Irvine, California. Title of presentation: “The Olympic Effect: Improvements in Cardio-Respiratory Health in Beijing”.
44. October 29, 2009, presented at National Kaohseing First University of Science and Technology, Kaohseing, Taiwan. Title of presentation: “Air Pollution Health Effects and Biological Mechanisms”.
45. October 30, 2009, presented at National Taiwan University, Taipei, Taiwan. Title of presentation: “Air Pollution Health Effects and Biological Mechanisms”.
46. October 31, 2009, presented at University of Southern California’s Global Conference, Taipei Taiwan. Title of presentation: “Air Pollution in Asia and Health Impact of the Beijing Olympics”.
47. February 5, 2010, presented at the University at Buffalo School of Public Health, Buffalo, NY. Title of presentation: “Health Effects of Air Pollution: from London to Piscataway to Beijing”.
48. April 14, 2010, presented at the New Jersey Clean Air Council’s 2010 Public Hearing, Trenton, New Jersey. Title of presentation: “History of Air Pollution and New Jersey’s Perspectives”.
49. April 27, 2010, led a panel discussion on “The Changing Nature of Health Problems [of China])”, cosponsored by the China Center for Health Development Studies, The Lancet, and China Medical Board, in Beijing, China.
50. April 28, 2010, presented at the Chinese Research Academy of Environmental Sciences, Beijing, China. Title of presentation: “Adverse Cardiopulmonary Effects of Air Pollution: Epidemiologic Evidence and Biological Mechanisms”.

51. May 13, 2010, presented a plenary lecture at the Air & Waste Management Association International Specialty Conference: Leapfrogging Opportunities for Air Quality Improvement, Xi'an, China. Title of the lecture: "Global Health Impact of Air Pollution: Epidemiological Evidence and Biological Mechanisms".
52. April 12, 2011, presented at the Southern California Environmental Health Sciences Center, Los Angeles, CA. Title of seminar: "Assessing Health Effects of Engineered Nanomaterials Using Multidisciplinary Approaches".
53. September 29, 2011, presented for the University of Southern California AirPollBrain (APB) group, Los Angeles, CA. Title of seminar: "Environmental and Engineered Nanoparticles: Linking Physicochemical".
54. October 15, 2011, presented at University of Southern California's Global Conference, Hong Kong, China. Title of presentation: "Old and New Environmental Threats – Potential Risks Associated with Engineered Nanomaterials".
55. October 18, 2012, presented at the inter-academy workshop addressing the challenges of black carbon in Russia organized at the request of the Department of State, the U.S. National Academy of Sciences, in collaboration with the Russian Academy of Sciences, Moscow, Russia. Title of presentation: "Black Carbon: The Most Accurate Indicator for Health Effects of Combustion-Generated Particles".
56. March 1, 2013, presented Distinguished Alumni Award Lecture at School of Environmental and Biological Sciences, Rutgers University. Title of presentation: "Improving Air Quality and Health: A Legacy of the Beijing Olympics?"
57. March 19, 2013, presented at MRC-HPA Centre for Environment and Health, Imperial College London and King's College London, UK. "How Does Air Pollution Affect Health? Finding Answers from London to Beijing and Beyond"
58. April 15, 2013, presented at Health Effects Institute 2013 Annual Conference, San Francisco, CA. Title of presentation: "Improving Air Quality and Health: A Legacy of the Beijing Olympics?".
59. September 16, 2013, presented at National Environmental Health Sciences Institute, Research Triangle Park, NC. Title of presentation: "Exploring Air Pollution Health Effects and Mechanisms Using Quasi-Experimental Approaches".
60. October 31, 2013, presented at the global health workshop of the Association of Pacific Rim Universities (APRU), Zhejiang University, Hongzhou, China. Title of presentation: "Air Quality Improvements during the Beijing Olympics: What Can We Learn?".
61. November 6, 2013, presented at Environmental Toxicology Program, University of California at Riverside. Title of presentation: "Analytical Chemistry Based Bio-Monitoring in Studies of Air Pollution Exposure and Health Effects".
62. November 20, 2013, presented at Chinese Research Academy of Environmental Sciences, Beijing, China. Title of presentation: "Air Quality Improvements During the Beijing Olympics: What Can We Learn?".
63. January 7, 2014, presented at North Carolina State University, Raleigh, NC. Title of presentation: "Exploring How Respirable Particles Affect Health: From Real-World Observations to Laboratory Experiments".
64. April 1, 2014, presented at Workshop on Health Effects of Fine Particles from Vehicle Emissions, Washington DC. Title of presentation: "Ultrafine Particles and PM2.5 in Relation to Cardiorespiratory Effects and Pathophysiologic Pathways".
65. October 11, 2014, presented at Dean's Seminars on Urbanization, Trinity College of Art and Sciences, Duke University, Durham, NC. Title of presentation: "Global Health Impact of Urban Air Pollution".
66. November 1-2, 2014, presented at the 4th International Autism Forum, Fudan University, Shanghai, China. Title of presentation: "Biomarkers of Air Pollution Exposure and Pathophysiologic Pathways".

67. November 20, 2014, presented at the panel discussion at the United Nations Cookstove Future Summit, New York City. Title of panel discussion: “Clean Cooking: The Burden, the Imperative, and the Progress”.
68. December 8-10, 2014, presented at the expert workshop on Health and Wellbeing in the Changing Urban Environment: A Systems Analysis Approach, Xiamen, China. Title of presentation: “Acute Health Effects of Urban Traffic: Observations from London and Beijing”.
69. December 16, 2014, presented at Noncommunicable Diseases and Cookstoves Workshop, Washington DC. Title of presentation: “Indicators and Biomarkers of Cardiorespiratory Risk Factors In Relation to Air Quality Improvement During the Beijing Olympics”.
70. February 5, 2015, presented at NIEHS Inflammation Faculty Webcast on Emerging Biomarkers of Inflammation, Durham, NC. Tittle of presentation: “The Utility of Inflammation Biomarkers in Studies of Air Pollution Health Effects”.
71. Feb 12, 2015, presented at University of Colorado School of Public Health, Denver, CO. Title of presentation: “Using natural Experiments to Study Health Effects of Air Pollution: from London to Beijing”.
72. May 19, 2015, presented at Johns Hopkins University School of Public Health, Environmental Health Seminar Series. Title of presentation: “Air pollution and exposure science”.
73. November 6, 2015, presented at Asia Pacific Regional IMFAR: Shanghai 2015, tittle of presentation: “Air Pollution and Autism, is there a causal link?”
74. December 2, 2015, presented at University of Rochester School of Medicine and Dentistry, tittle of presentation: “Air Pollution in China: What can be done to reduce health impact?”
75. December 10, 2015, presented at Nanoscience Initiative final meeting in London on behalf of the RAMNUC Center, tittle of presentation: “A Nano-Ceria Fuel Additive: Impact on Emissions and Toxicity of Diesel Exhaust Particles”.
76. March 1, 2016, presented at the Duke Pulmonary Research Conference, tittle of presentation: “Air Pollution, the Lung, and the Body: Finding Connections using Real-World Exposures”.
77. May 17-18, 2016, presented and attended the Indo-US Workshop on Combating Air Pollution in North India, New Delhi, India. The program is sponsored by the US Department of State via US Embassy in India. Title of presentation: “Urban Air Pollution in China: What Can Be Done to Reduce the Health Impact?”
78. August 15, 2016, presented at Environmental Protection Bureau and Environmental Protection Research Institute of Rizhao City, Shandong Province, “What China can Learn from Air Pollution History?”
79. August 16, 2016, presented at the Ministry of Environmental Protection, Beijing, China. “Exposure science: Current State of Science and New Opportunities”
80. January 12-15, 2017, presented and attended Symposium on Health and the Environment in Emerging Markets, Green Templeton College, University of Oxford, UK.
81. March 3, 2017, presented at Department of preventive Medicine, University of Southern California. “Reducing indoor Concentrations of Respirable Particles: Will the Body Respond?”
82. May 4, 2017, presented at Current Approaches to exposure Assessment in Environmental Health Sciences Symposium, University of Rochester. “Biomarkers of Source-specific Air Pollution Exposure”
83. July 13, 2017, presented at Zhengzhou University, Henan Province, China. “Ozone Pollution and Control Challenges”
84. July 21, 2017, presented at Zhoushan Hospital, Zhejiang Province, China. “Air Pollution and Lung Cancer: How Much Do We Know?”
85. September 18, 2017, presented at Duke International Development Center for a Chinese Academy of Sciences delegation. “The Intersection of Health and the Environment: The Strategic Role of Innovation”

86. September 28, 2017, presented at Qingpu Environmental Monitoring Station. “Why and How to control Ozone Pollution?”
87. October 31, 2017, presented at College of Environmental Sciences and Engineering, Peking University, Beijing. “Purifying Indoor Air for Better Health in Chinese Cities: Does it Work?”
88. November 3, 2017, presented at Duke International Development Center for a Guangdong Academy of Sciences delegation. “Health Impacts of Nanomaterials”
89. June 6, 2018, presented and served as a panelist at the Global Environmental Health Day at NIEHS of NIH, RTP, North Carolina. “Using Natural Experiments in Global Health Research”
90. July 17, 2018, presented at Beijing University of Science and Technology, Beijing, China. “Health Impacts of Indoor Air Filtration Interventions in Healthy Adults and Asthmatic Children”
91. July 23, 2018, presented at the Institute of Earth Environment, Chinese Academy of Sciences, Xi’an, China. “Lessons Learned from and Challenges Facing Controlling Tropospheric Ozone”
92. October 29, 2018, presented at Guangzhou Medical University Institute of Respiratory Health, Guangzhou, China. “Indoor Air Filtration as A Preventive Method for Respiratory Illness”
93. December 10, 2018, presented at Southern China University of Science and Technology, Guangzhou, China. “Introduction to Environmental Health: Climate Change as An Example”
94. December 11, 2018, presented at Guangdong Provincial Center for Disease Control, Guangzhou, China. “Exposure Biology of Air pollution”
95. January 12, 2019, presented at Peking University Center of the Environment and Health, Beijing, China. “Melatonin: A Potential Air Pollution Effects Confounder or Modifier?”
96. March 21, 2019, presented at North Carolina Chapter of the Air and Waste Management Association meeting, RTP, NC. “Air Pollution and Birth Weight: Epidemiology and Biology”
97. June 1, 2019, presented at Campion Fund Workshop on Air Pollution Harms Reproductive Health, Salt Lake City, UT. “Impact of Gestational Month Specific Exposures to Air Pollution on Birth Weight.
98. July 29, 2019, presented at Chinese Research Academy of Environmental Sciences, Beijing, China. “Scientific basis for revising the ozone standards in the US.”
99. July 30, 2019, presented at University of Science and Technology of Beijing, Beijing, China. “Air pollution linked to low birth weight: critical exposure time and biological mechanisms.”
100. August 10, 2019, presented at China Cough Forum, Nanchang, China. “Eosinophilic airway inflammation induced by air pollution”.August 17, 2019, presented at the Symposium on Advancement of Respiratory Diseases Diagnosis and Treatment. Title: “Air pollution, inflammation, lung and beyond”.
101. August 22, 2019, presented at Peking University, College of Environmental Sciences and Engineering. “Environmental health sciences: reflections and perspectives”.
102. September 10, 2019, presented at 2019 NanoEHS Webinar series sponsored by the National Nanotechnology Coordination Office, Alexandria, VA. “Potential respiratory effects of engineered nanomaterials in relation to physiochemical properties”.
103. October 1-2, 2019, served as a panel and presented at the US-China Environment and Sustainability Forum at the University of Michigan, Ann Arbor, Michigan. “Precision medicine and environmental health”.
104. October 19, 2019, presented a plenary talk at the ISEE-ISES Asia 2019 Conference, Taegu, Korea. “Integrating exposure science, epidemiology, and biomedical sciences towards personalized health management”.
105. October 24, 2019, presented a plenary talk at Healthy Building 2019 Conference in Changsha, Hunan Province, China. “The role of healthy building in combating urban air pollution”.

106. November 8, 2019, presented a keynote talk at the 3rd International Cough Conference in Guangzhou, Guangdong Province, China. “Improving indoor environment for better respiratory heath: part of precision medicine?”
107. September 21, 2020, plenary presentation at the 2020 Annual Conference of the International Society of Exposure Sciences, Virtual Conference. “The role of exposure science in precision environmental health”.
108. September 24, 2021, Department of Civil Engineering and Center for Indoor Environment and Energy. “Journey of chasing particles”
109. October 7, 2021, presented and co-organized a scientific retreat on “Health, Exposure, and Chemistry Indoors” at the Technical University of Denmark.
110. October 1, 2021, Department of Chemistry and Department of Public Health, Aarhus University, Aarhus, Denmark. “Health effects of low-level ozone exposure: further challenges to ozone control.”
111. October 5, 2021, National Center for the Working Environment, Copenhagen, Denmark. “Nitrated polycyclic aromatic hydrocarbons: Biomonitoring for exposures and biological effects.”
112. November 17, 2021, Department of Population and Public Health Sciences, University of Southern California, Los Angeles, CA. “Ozone versus ozone reaction products: which is more responsible for cardiorespiratory health effects?”
113. September 6-7, 2022, attended and presented at the e-ASIA Joint Research Program Workshop on Climate Change and Health, sponsored by NIH, the East-West Center, Honolulu, Hawaii. My presentation title: “Environmental health interventions”.
114. October 9, 2022, invited virtual seminar to King Abdulla University of Science and Technology, title of the seminar “Reducing air pollution disease burdens through policy and personal protections”.
115. October 11, 2022, presented and served as a panelist at the virtual workshop on “Health Consequences and the Relative Contribution of Indoor versus Outdoor Pollutants”. The workshop is charged by the American Thoracic Society (ATS).
116. November 17, 2022, virtually presented a nationally broadcasted lecture, hosted by Peking University. “Ozone versus ozone reaction products: Which is more responsible for cardiovascular and respiratory effects”.
117. March 22, 2023, co-chaired and presented at the Future of Fire Safety Symposium, Annual Conference of Society of Toxicology, Nashville, TN. “Modulation of PM2.5-mediated cardiometabolic indicators in wildfire-exposed individuals through residential air filtration”.
118. April 14, 2023, presented a keynote lecture at the 12th Annual Global Health Day Symposium: Women’s Health, University at Buffalo, SUNY. “Air pollution and women’s health: exposure vulnerability and biological susceptibility”.
119. June 27, 2023, presented the opening keynote lecture at Mongolia’s first ever National Environmental Health Conference, sponsored by Mongolian National University of Medical Sciences, UNICEF, and WHO, Ulaanbaatar, Mongolia. “Randomized clinical trials (RCT) on indoor air pollution interventions. (This event was televised on the Mongolian national TV networks and a separate individual interview with me was broadcasted in two TV channels.)
120. July 5, 2023, presented an invited lecture at Peking University’s Air Pollution, Climate Change, and Health symposium, College of Environmental Sciences and Engineering, Peking University, Beijing. “Health impacts of air pollution among men and women”.
121. July 10, 2023, presented an invited lecture, School of Public Health, Lanzhou University, Gansu Province, China. “Sex and gender differences in air pollution health effects”.

122. July 12, 2023, presented an invited lecture, Beijing University of Science and Technology, Beijing China. "Sex and gender differences in air pollution health effects".
123. July 18, 2023, presented at Duke China-US Summit, Environment & Sustainability Panel, Duke Kunshan University, Jiangsu Province, China. "Collaborative research on environmental health in China: opportunities and challenges".
124. August 11, 2023, presented a keynote at the 25th China Cough Conference, Chengdu, Sichuan Province, China. "Air pollution induced pulmonary inflammation and resolution: roles of specialized pro-resolving mediators".
125. August 23, 2023, presented an invited seminar at Tsinghua University, Beijing China. "Indoor air purification: Does it really improve health?"
126. November 20, 2023, presented a keynote lecture at the Annual Meeting of the MRC Centre For Environment and Health, Imperial College, The Royal Society, London, UK. "Targeting indoor PM2.5 and ozone to improve public health".
127. December 1, 2023, presented a keynote lecture at the 4th International Cough Conference in Guangzhou, China. "Airway inflammation induced by PM2.5 and ozone co-exposure".
128. June 17, 2024, presented a seminar at College of Environmental Sciences and Engineering, Peking University, Beijing, China. "Targeting indoor PM2.5 and ozone to improve public health".
129. June 21, 2024, presented a keynote lecture at the 6th Shanghai Chest Forum on Respiratory Diseases, Shanghai, China, June 21-22, 2024. "Effects of air pollution on airway and interstitial lung diseases".
130. July 2, 2024, presented a special seminar at the 3rd Mongolia GEOHealth Center and School of Public Health, Mongolian National University of Medical Sciences. "Air pollution induced respiratory inflammation and resolution mechanisms".
131. July 11, 2024, presented a keynote and plenary talk at Indoor Air 2024 Conference (>900 attendees) in Honolulu, HI, July 7-11. "Too many indoor pollutants to measure: Finding exposure surrogates pertinent to health effects".

VII. GRANTS

(listed in chronological order)

Research Grants

1. ***Investigation of Acid Aerosol Exposures in Metropolitan Settings: EOHSI Component (Microenvironmental Assessment)***
   CR#822050 Harvard University under EPA Cooperative Agreement
   Role: Co-PI Project period: 11/95-10/96 Grant amount: $45,000
   Percent effort: 10%
2. ***Reports of Pilot Study Results and Interim Full-scale Study Results Regarding Health Effects of Outdoor and Indoor Air Pollution in Four Chinese Cities***
   CR#822050 US Environmental Protection Agency
   Role: PI Project period: 9/96-12/97 Grant amount: $33,554
   Percent effort: 20%
3. ***NHEXAS - Comprehensive Population Based Study of Human Exposure to Contaminants in Multiple Media***
   CR#822050 Research Triangle Institute subcontract under EPA Cooperative Agreement
   Role: Co-I Project period: 99/93-9/98 Grant amount: $964,002
   Percent effort: 20%
4. ***Greenhouse Gases from Small Scale Combustion Devices in Developing Countries, East-West Center***
   CR#820243 under EPA Cooperative Agreement

Role: PI Project period: 10/95-5/99 Grant amount: $141,043
Percent effort: 30%

5. ***Lead-Based Paint Hazard Control in Priority Housing: New Jersey Assessment of Cleaning Techniques***
   NJLHR0023-97 US Department of Housing and Urban Development (HUD)
   Role: Co-I Project period: 09/97-03/00 Grant amount: $852,816
   Percent effort: 15%
6. ***Exposure Analyses for Toms River, N.J: Current Conditions and Historical Reconstruction***
   NJLHR0023-97 N.J. Department of Health and Human Services
   Role: Co-I Project period: 05/98-04/00 Grant amount: $453,720
   Percent effort: 10%
7. ***Contributions of Outdoor Sources to Indoor Concentrations and Personal Exposures to Air Toxics,***
   The Mickey Leland National Urban Air Toxics Research Center
   Role: Co-I Project period: 12/97-11/00 Grant amount: $1,476,260
   Percent effort: 15%
8. ***Development of A Passive Sampler to Measure Exposures to Airborne Carbonyl Compounds,***
   Health Effects Institute (HEI)
   Role: PI Project period: 1/99-11/00 Grant amount: $58,150
   Percent effort: 10%
9. ***Effects of Exposure to Automobile Exhaust on Acrolein and Crotonaldehyde-derived DNA Adducts in Human Lymphocyte DNA***
   Subcontract from American Health Foundation under Health Effects Institute Research Agreement #98-2
   Role: Co-I Project period: 1/00-6/01 Grant amount: $46,297
   Percent effort: 15%
10. ***Effect of CRA Loans for Lead Abatement***
    CDC
    Role: Co-I Project period: 9/98-9/01 Grant amount: $291,933
    Percent effort: 20%
11. ***Southdown Quarry Exposure Study***
    NJ Department of Environmental Protection #SR00-066
    Role: Co- PI Project period: 9/00-9/01 Grant amount: $521,981
    Percent effort: 20%
12. ***Personal and Microenvironmental Measurements of Human Exposures to Multiple Aldehydes in Three Distinct Urban Areas***
    Health Effects Institute (HEI)
    Role: PI Project period: 6/98-2/02 Grant amount: $769,190
    Percent effort: 30%
13. ***Effects of Exposure to Particulate Matter on Respiratory Health in Four Chinese Cities***
    US EPA
    Role: PI Project period: 8/98-7/02 Grant amount: $302,787
    Percent effort: 30%
14. **Health Effects of Exposures to VOCs, Ozone and Stress**
    NIOSH
    Role: Co-I Project period: 10/99-9/02 Grant amount: $1,311,431
    Percent effort: 15%

15. ***Hazardous Air Pollutant Mixtures: Measuring and Modeling Complex Exposure***
    R82792801 Subcontract from University of Minnesota under EPA Star Grant amount: $142, 331
    Role: PI Project Period: 1/00-12/02
    Percent effort: 15%
16. ***Improvement of the PAKS- DNSH Method for the Collection and Analysis of Acrolein and Other Carbonyls***
    US Environmental Protection Agency
    Role: PI Project period: 09/02-08/03 Grant amount: $86,979
    Percent effort: 20%
17. ***Preparation for Follow-up Study of Changes in Respiratory Health, in Relation to Changes in Outdoor Air Pollution Concentrations and Indoor Air Pollution Sources, in Four Chinese Cities***
    US Environmental Protection Agency.
    Role: PI Project period: 5/02-9/03 Grant amount: $63,500
    Percent effort: 15%
18. ***Support for Carbonyls Analysis of the EPA Tampa Asthmatic Children Study, Research Triangle Institute.***
    US Environmental Protection Agency
    Role: PI Project period: 8/02-6/04 Grant amount: $49,000
    Percent effort: 10%
19. ***Urban Hot Spot Mobile Source Exposure and Chemical Characterization.***
    Subcontract from Johns Hopkins University via US EPA
    Role: PI Project period: 8/02-7/04 Grant amount: $16,080
    Percent effort: 5%
20. ***Comparison of Continuous Ambient PM monitors. State of New Jersey Department of Environmental Protection.***
    State of New Jersey Department of Environmental Protection
    Role: Co-I Project period: 6/03 –12/04 Grant amount: $54,460
    Percent effort: 5%
21. ***Effect of Point Source Emissions on School Absenteeism in Three Communities in Warren County, NJ, with High Pediatric Asthma Rates***
    ATSDR
    Role: Co-I Project period: 9/02-8/05 Grant amount: $367,154
    Percent effort: 5%
22. ***Validation of PAH Biomarkers for Quantifying Cancer Risk.***
    National Cancer Institute (NIH-NCI)
    Role: PI Project period: 10/01-8/05 Grant amount: $639,982
    Percent effort: 30%
23. ***Health Effects of Diesel Exhaust in Asthmatics: A Real-World Study in a London Street.***
    Health Effects Institute
    Role: PI Percent effort: 25% Project period: 10/02-06/06 Grant amount: $745,383
    Percent effort: 25%
24. ***Field Validation of Modified PAKS-DNSH Method for the Collection and Analysis of Acrolein and Other Carbonyls***
    US Environmental Protection Agency
    Role: PI Project period: 05/05-04/09 Grant amount: $94,721
    Percent effort: 20%

25. ***Personal and Ambient Exposures to Air Toxics in Camden***
    Health Effects Institute (HEI)
    Role: Co-I Project Period: 12/03 – 11/06 Grant amount: $864,437
    Percent effort: 10%
26. ***The effects of Diesel Exhaust and Stress on the Acute Phase Response and Symptoms in the Chemically Intolerant***
    US Department of Defense
    Role: Co-I Project period: 8/03 – 12/06 Grant amount: $1,523,062
    Percent effort: 15%
27. ***Controlled Human Exposure-Response Study to Environmental Levels of Hydrogen Sulfide.***
    American Petroleum Institute and other Partners
    Role: Co-I Project period: 1/01-3/07 Grant amount: $980,000
    Percent effort: 15%
28. ***Support for Carbonyls Analysis of the EPA's Detroit Exposure and Aerosol Research Study (DEARS)***
    Subcontract from Research Triangle Institute
    Role: PI Project period: 5/04-6/07 Grant amount: ~ $476,000
    Percent effort: 10%
29. ***Diabetic Susceptibility to the Procoagulant Effects of Air Pollution***
    Environmental and Occupational Health Sciences Institute (through a pilot project of NIEHS Center grant to the institute)
    Role: Co-I Project period: 4/06-12/07 Grant amount: $20,000
    Percent effort: 5%
30. ***Relation between Airborne Pollen Concentrations and Daily Cardiovascular Hospital Admissions***
    Environmental and Occupational Health Sciences Institute (through a pilot project of NIEHS Center grant to the institute)
    Role: Co-I Project period: 07/07 -06/08 Grant amount: $20,000
    Percent effort: 5%
31. ***Cardiovascular Effects of Fresh Particles in Genetically Susceptible Subjects***
    US Environmental Protection Agency
    Role: Co-I Project period: 10/04 –09/08 Grant amount: $1,521,398
    Percent effort: 15%
32. ***Assessment of Health Risk Associated with Synthetic Turf***
    Gifts from private donors via the Foundation of UMDNJ.
    Role: PI Project period: 02/08/12/08 Grant amount: $12,000
    Percent effort: 5%
33. ***Validation of Diesel Exhaust Biomarkers***
    R832097 US EPA STAR grant
    Role: PI Project period: 05/05-04/09 Grant amount: $572,497
    Percent effort: 25%
34. ***Triggering of Myocardial Infarction by Ambient Fine Particles and Fine Particulate Components***
    R832097 American Heart Association
    Role: Co-I Project period: 07/07 -06/10 Grant amount: $195,000
    Percent effort: 5%
35. ***Molecular and Physiological Responses to Drastic Changes in PM Concentration and Composition***

4760-RFPA05-3/07-3/07-2 Health Effects Institute
Role: PI Project period: 07/07-12/10 Grant amount: $610,670
Percent effort: 20%

36. ***Diesel Exhaust Particle Effects on Human Immunity to Mycobacterium tuberculosis***
1R21ES016928 NIEHS – NIH
Role: Co-I Project period: 9/08 - 8/11 Grant amount: $429,000
Percent effort: 5%

37. ***Response to Drastic Changes in Air Pollution: Reversibility and Susceptibility***
5R01ES015864 NIEHS (NIH)
Role: PI Project period: 1/08- 11/12 Grant amount: $1,178,867
Percent effort: 15%

38. ***Impact of Air Pollution Reductions during the Beijing Olympics on Pre-term Birth Rates and Birth Weight***
1R01ES019165-01 NIEHS (NIH)
Role: MPI Project period: 08/10-03/14 Grant amount: $1,019,988
Percent effort: 10% - 15%

39. ***Biological Response to Air Quality Change in Beijing Pre-, Mid- and Post-Olympics***
1R01ES018846-01A1 NIEHS (sub-award from State University of New York at Buffalo)
Role: Co-I and sub PI Project period: 12/10-12/13 Grant amount: ~$491,323
Percent effort: 5%

40. ***Ambient Exposures to Diesel Traffic Particles and Exacerbation of Cardiovascular and Chronic Pulmonary Obstructive Disease: Mechanistic Explanations for Epidemiological Observations***
British Heart Association
Role: Co-I Project period: 05/12-4/14 Grant amount: GBP 1,200,000
Percent effort: 3% (in-kind)

41. ***Risk Assessment for Manufactured Nanoparticles Used in Consumer Products (RAMNUC)***
RD83469301 US Environmental Protection Agency and UK National Environmental Research Council
Role: PI/PD Project period: 07/10-06/15 Grant amount: $4,000,000
Percent effort: 20%

42. ***Respiratory Effects of Silver and Carbon Nanoparticles (RESAC)***
U19ES007048-05 National Institute of Environmental Health Science (NIEHS)
Role: PI/ PD Project period: 09/10-08/15 Grant amount: ~ $5,000,000
Percent effort: 20%

43. ***Use of Exhaled Breaths Condensates to Assess Human Exposures and Response to Air Pollution***
5P30ES007048-16 National Institute of Environmental Health Science (NIEHS)
Role: Co-I Project period: 04/11-03/16 Grant amount: $8,900,765
Percent effort: 5% (In-Kind)

44. ***Air Pollution Particle Effects on Human Antimycobacterial Immunity***
R01ES0203821 US National Institute of Environmental Health Science (NIEHS)
Role: Co-I Project period: 07/11-09/16 Grant amount: $3,558,069
Percent effort: 10%

45. ***Prenatal Tobacco Smoke, Genetic and Epigenetic Changes, and Respiratory Health***
1R01ES022216 National Institute of Environmental Health Science (NIEHS)
Role: Co-I Project period: 09/13-08/18 Grant amount: $2,439,475 (Zhang $101,000)
Percent effort: 5%

46. ***Prospective Evaluation of Air Pollution, Cognition and Autism from Birth Onward***

1R01ES023780 US National Institute of Environmental Health Science (NIEHS)
Role: Co-I Project period: 07/14-04/18 Grant amount**:** $3,000,000 (Zhang $200, 000)
Percent effort: 5%-10%

47. ***Health Assessment and Control Mechanisms for PM2.5 and Co-pollutants in the Built Environment***
This study is to evaluate the effectiveness of several indoor air filtration technologies in reducing indoor fine particle concentrations and in improving health outcomes of adult occupants.
National Natural Science Foundation of China (sub to Duke Kunshan)
Role: Co-PI and sub PI Project period: 10/14-12/19 Grant: $500,000 (Zhang portion $200,000)
Percent effort: 5% (in kind)

48. ***Effects of Air Pollution on Cardiopulmonary Disease in Urban and Peri-urban Residents in Beijing (AIRLESS)***
This study is to examine cardiopulmonary and cardio metabolic effects of air pollution in urban and rural residents of the Beijing area and to elucidate biological mechanisms and disease susceptibility.
National Natural Science Foundation of China (sub to Duke Kunshan)
Role: Co-I and sub PI Project period: 06/2016 - 05/2021 $833,000 (Zhang portion $84,000)
Percent effort: 5% (in kind)

49. ***The Combined Influence of Outdoor and Indoor Pollutants on Acute Respiratory Response of School Children in China***
The main objective of this study is to determine the influence of indoor air pollutant exposure on the health of school children in China.
Underwriters Laboratory (UL)
Role: Co-I Project Period: 07/2015 - 06/2018 Grant amount: $1,177,000
Percent effort: 10%

50. ***Environmental Influences on Child Health Outcome Coordination Center***
This coordination center will establish the required infrastructure to coordinate the multiple levels of membership in the ECHO community. This infrastructure will focus on methods of learning valuable information about environmental exposures through aggregation of massive amounts of data from Pediatric ECHO Cohorts.
1U2COD023375 NIH
Role: Co-I 09/2016-08/2023 Grant amount: $50,000,000
Percent effort: 15%

51. ***Environmental Influences on Child Health Outcome Coordination Center***
This coordination center will establish the required infrastructure to coordinate the multiple levels of membership in the ECHO community. This infrastructure will focus on methods of learning valuable information about environmental exposures through aggregation of massive amounts of data from Pediatric ECHO Cohorts.
2U2COD023375 NIH
Role: Co-I and Component PI 08/2023-08/2025 Grant amount: $2,600,000
Percent effort: 10%

52. ***Potential Pathophysiologic Mechanisms Linking Air Pollution Exposure in Pregnant Women to Reduced Birth Weight***
This study is to determine whether air pollution exposure impacts systemic inflammation and oxidative stress in the mother, placenta, and fetus; determine whether air pollution exposure impacts placental development, vascularization, and related imprinted genes; determine whether air pollution exposure

impacts metabolic deficiency; and explore whether these mechanisms mediate the association between air pollution and birth weight.
1R01ES027495 NIEHS (NIH)
Role: MPI Project period: 09/2017-06/2022 Grant: $2,490,000 (Zhang portion ~$1,670,000)
Percent effort: 15%

53. ***The effect of household air pollution on the health outcomes of infants in Botswana***
This study is to assess potential links between early-life exposure to household air pollution from biomass cooking and respiratory health of infants via systemic inflammation.
Thrasher Research Fund
Role: co-PI Project period: 09/2018-8/2020 Grant: $25,000
Percent effort: 3% (in-kind)

54. ***Clarifying the role of tobacco retail outlets on maternal smoking during pregnancy and child secondhand smoke exposure***
The purpose of this proposed study is to examine, in a southeastern US county, the extent to which TRO density and proximity is related to biomarkers of smoke exposure (cotinine) in 1000 women and 400 children. In addition, the study will model the degree to which theoretical policy changes regulating TROs impact exposure to carcinogenic tobacco smoke and related health-care costs.
R01CA239595 NCI (NIH)
Role: Co-I Project period: 05/2019-04/2023 Grant: $1,922, 079 (Zhang portion: ~$150k)
Percent effort: 3%-5%

55. ***Trimester-Specific Variation in Air Quality and Risk for Autism Spectrum Disorder: A Natural Experiment***
This project will evaluate the association of prenatal air pollution exposure with ASD, assessed both as a categorical diagnosis and as a continuous trait, in a population-based sample, leveraging the improvements in air quality surrounding the time of the 2008 Beijing Olympics.
1R01ES030414 NIEHS (awarded to Johns Hopkins University)
Role: MPI and sub PI Project period: 07/2019-06/2025 Grant: $2,801,141 (Zhang portion: ~$1,200k)
Percent effort: 2%-20%

56. ***Impact of Preconception and Onward Exposures to Air Pollution on Growth Trajectories of Infants and Children (GAAP)***
This study will examine critical time windows of air pollution exposure, from preconception to prenatal and postnatal, that affect birth weight and body growth trajectories during the first 2 years of life. Both outcomes are predictors of childhood obesity.
1R01ES029945 NIEHS (NIH)
Role: MPI (contact PI) Project period: 09/2019-05/2025 Grant: ~$2.56 million
Percent effort: 16%

57. ***Detection of Hemoglobin Adducts of Nitrated Polycyclic Aromatic Hydrocarbons (nitro-PAHs)***
This project is to analyze stored biospecimens provided by the NCI intramural branch (Cancer Epidemiology and Genetics) for biomarkers of combustion-generated air pollutants.
Research Contract NCI (NIH)
Role: PI Project period: 09/2021- 09/2022. $24,500 total
Percent effort: 2%

58. Using Indoor Air Filtration to Reduce PM2.5 Cardiometabolic Effects in At-risk Individuals (UL2)

This project will assess the effectiveness of a six-month residential-based $PM_{2.5}$ exposure reduction strategy in reducing cardiometabolic disorder CVD risk in a sample of an ethnicity-diverse older adults with a baseline health condition of elevated risk for type 2 diabetes. The intervention period will naturally cover wildfire episodes, allowing the evaluation of the acute health impact of indoor filtration during wildfires. This work has the potential to develop a clear strategy (indoor air filtration) that can improve the health of at-risk individuals

Research contract — The Underwriter's Laboratories
Role: PI — Project period: 3/2022-12/2026. Contract amount: $2,483,239.
Percent effort: 20%

59. Mongolian Center for Environmental & Occupational Health -Mongolia

This project uses a multidisciplinary approach, integrating epidemiologic observational studies and laboratory cell-model toxicology experiments, to investigate whether and how particulate matter air pollution affect respiratory viral infections. Ancillary pilot study projects will explore the impact of particulate pollution on pulmonary tuberculosis and osteoporosis. Mongolia has high prevalence and incidence of these diseases and high particulate matter levels in the world.

1U01TW012229 — The Fogarty International Center (NIH)
Role: MPI — Project period: 06/2022-05/2027. Grant awarded to Mongolia National University of Medical Sciences as prime: ~$1,500,000 total
Percent effort: 10% (coupled with a companion training grant U2R)

60. Slowing Atherothrombosis Progression through Indoor Air Filtration: A Crossover Trial in Hispanic and non-Hispanic Adults with Ischemic Heart Disease History (SAPIA)

This project is a randomized crossover trial among Los Angeles residents with ischemic heart disease history to investigate the effect of 9-month indoor $PM_{2.5}$ filtration on both levels and slopes of change in atherothrombosis biomarkers including arterial stiffness, blood pressure, targeted proinflammatory and prothrombotic markers, and novel proteomic makers, as well as CVD risk score.

1R01ES033707 — NIEHS (NIH)
Role: MPI and subcontract PI — Project period: 09/2022-06/2027 Grant total: ~ $3,300, 000
Percent effort: ~10% — Duke sub-total: ~$700, 000

61. Molecular Mechanisms for Resolving Air Pollution Induced Pulmonary Inflammation: Potential Differences by Asthma and Sex (RAPIDAS)

This project aims to examine how $PM_{2.5}$, a ubiquitous air pollutant, affects cellular biosynthesis of specialized pro-resolving mediators (SPMs) and the kinetics of inflammation resolution in the respiratory tract. The project is also to examine sex and asthma as potential modifiers of $PM_{2.5}$ effects on inflammation resolution. This study uses a translational study framework integrating a human panel study and cell culture experiments.

1R01ES035457 — NIEHS (NIH)
Role: PI — Project period: 09/2023-06/2028 — Grant total: ~ $2,650, 000
Percent effort: ~20%

62. ***Exploratory Analysis of Hemoglobin Adducts of Nitrated Polycyclic Aromatic Hydrocarbons (Nitro-PAHs) as Biomarkers of Exposure to Diesel Engine Exhaust***
This project aims to measure hemoglobin adducts of nitrated polycyclic aromatic hydrocarbons in red blood cell specimens collected from the Shanghai Women's Health study, a population-based cohort of predominantly non-smoking women highly exposed to diesel exhaust from traffic-related and industrial air pollution in an urban environment.

NHLBI (NIH)
Role: PI Project period: 08/2023-08/2024 Grant total: $75, 000
Percent effort: ~3%

63. ***Mental and Respiratory Health Impacts of the Maui WUI Fire in Children and Adults (MARI)***
This time-sensitive project aims to assess the impact of the deadliest wildland-urban interface (WUI) fires in US history on mental and respiratory health in both child and adult victims. Assessments will be made at baseline and one year later with a goal to provide data, biospecimens and environmental samples for future investigation of long-term health effects and lasting community concerns.

R21ES036925 NIEHS (NIH)
Role: MPI (Contact) Project period: 09/2024-08/2026 Grant total: ~ $450,250
Percent effort: ~5%

Training and Conference Grants

64. ***Supporting the 2004 Annual Conference of International Society of Exposure Analysis.***
US Environmental Protection Agency
Role: PI Project period: 9/04-12/04 Grant amount: $59, 400
Percent effort: 5%
65. ***Conference - International Society of Exposure Analysis***
National Institute of Health (NIEHS and NCI)
Role: PI Project period: 7/04-6/05 Grant amount: $12,500
Percent effort: 2%
66. ***Thai Fogarty ITREOH Center (at Rutgers)***
1D43TW007849 Fogarty International Center/ NIEHS/ CDC
Role: Co-PI Project period: 05/07-12/12 Grant amount: $706,250
Percent effort: 5% (in-kind)
67. ***Training Grant in Genomics Analysis and Interpretation (at USC)***
2 T32 GM 67546-0 National Institute of Environmental Health Sciences (NIEHS)-NIH
Role: Co-I Project period: 07/12-06/17 Grant amount: $222,674
(left USC in 2013)
68. ***Environmental and Respiratory Health Across the Lifespan in Mongolia (at USC)***
1D43TW 00988-01A1 National Institute of Environmental Health Sciences (NIEHS) and Fogarty International Center-NIH
Role: Co-PI Project period: 07/12- 06/17 Grant amount: $1,250,000
(Left project at USC in 2013)
69. ***Integrated Toxicology and Environmental Health Program (at Duke)***

T32 NIEHS
Role: Co-I Project period: 07/18- 06/23 Grant amount:

70. Health Policy Research Scholar Cohort 5-2021 (at Duke)

Duke SPS274479 Robert Wood Johnson Foundation
Role: PI (Mentor) Project period: 09/2021-08/2025 Grant amount: $155,000
This grant is to support Lauren Prox (PhD student at Nicholas School of the Environment) to gain training on health policy experience while pursuing her PhD at Duke.

VIII. PUBLICATIONS

As of April 2025, Google Scholar H-index =101, total number of citation =??, based on Google Scholar.
Web of Science (Lite) H-index = 76, Scopus H index = ?, Europe PubMed Central =?.

Peer Reviewed Articles

1. **Zhang J**, He QC and Lioy PJ. Characteristics of Aldehydes: Concentrations, Sources, and Exposures for Indoor and Outdoor Residential Microenvironments. *Environmental Science & Technology* 28(1):146-152, 1994.
   (Cited 283 times as of 1/13/2023)
2. **Zhang J** and Lioy PJ. Ozone in Residential Air - Concentrations, I/O Ratios, Indoor Chemistry, and Exposures. *Indoor Air.* 4(2):95-105, 1994.
   (Cited 100 times as of 1/13/2023).
3. **Zhang J**, Wilson WE and Lioy PJ. Sources of Organic Acids in Indoor Air: a Field-Study. *Journal of Exposure Analysis and Environmental Epidemiology* 4(1):25-47, 1994.
   (Cited 46 times as of 1/13/2023)
4. **Zhang J**, Wilson WE and Lioy PJ. Indoor Air Chemistry: Formation of Organic Acids and Aldehydes. *Environmental Science & Technology* 28(11):1975-1982, 1994.
   (Cited 85 times as of 1/13/2023)
5. **Zhang J** and Smith KR. Hydrocarbon emissions and health risks from cookstoves in developing countries. *Journal of Exposure Analysis and Environmental Epidemiology* 6(2):147-161, 1996.
   (Cited 154 times times as of 1/13/2023)
6. Hibbert R, Bai Z, Navia J, Kammen DM and **Zhang J**. High lead exposures resulting from pottery production in a village in Michoacan State, Mexico. *J Expo Anal Environ Epidemiol* 9(4):343-51, 1999.
   (Cited 37 times as of 1/13/2023)
7. Lioy PJ, Wainman T, **Zhang J** and Goldsmith S. Typical household vacuum cleaners: The collection efficiency and emissions characteristics for fine particles. *Journal of the Air & Waste Management Association* 49(2):200-206, 1999.
   (Cited 80 times times as of 1/13/2023)
8. Wei F, Teng E, Wu G, Hu W, Wilson WE, Chapman RS, Pau JC and **Zhang J**. Ambient concentrations and elemental compositions of PM_{10} and $PM_{2.5}$ in four Chinese cities. *Environmental Science & Technology* 33(23):4188-4193, 1999.
   (Cited 245 times as of 1/13/2023)
9. **Zhang J**, Qian Z, Kong L, Zhou L, Yan L, and Chapman RS. Effects of Air Pollution on Respiratory Health of Adults in Three Chinese Cities. *Journal of Environmental Health,* 55(6): 373-381, 1999.
   (Cited 65 times as of 1/13/2023)

10. **Zhang J**, Smith KR, Uma R, Ma Y, Kishore VVN, Lata K, Khalil MAK, Rasmussen RA and Thorneloe ST. Carbon monoxide from cookstoves in developing countries: 1. Emission factors. *Chemosphere - Global Change Science* 1(1-3):353-366, 1999.
    (Cited 123 times as of 8/12/19)
11. **Zhang J**, Smith KR, Uma R, Ma Y, Kishore VVN, Lata K, Khalil MAK, Rasmussen RA and Thorneloe ST. Carbon monoxide from cookstoves in developing countries: 2. Exposure potentials. *Chemosphere - Global Change Science* 1(1-3):367-375, 1999.
    (Cited 56 times as of 1/13/2023)
12. **Zhang J** and Smith KR. Emissions of carbonyl compounds from various cookstoves in China. *Environmental Science & Technology* 33(14):2311-2320, 1999.
    (Cited 234 times as of 1/13/2023)
13. Qian Z, Chapman RS, Tian Q, Chen Y, Lioy PJ and **Zhang J**. Effects of air pollution on children's respiratory health in three Chinese cities. *Arch Environ Health*. 55(2):126-133, 2000.
    (Cited 66 times as of 1/13/2023)
14. Smith KR, Uma R, Kishore VVN, **Zhang J**, Joshi V and Khalil MAK. Greenhouse Implications of Household Stoves: An Analysis for India. *Annual Review of Energy and the Environment.* 25(1):741-763, 2000.
    (Cited 443 times as of 1/13/2023)
15. **Zhang J**, Smith KR, Ma Y, Ye S, Jiang F, Qi W, Liu P, Khalil MAK, Rasmussen RA and Thorneloe SA. Greenhouse gases and other airborne pollutants from household stoves in China: a database for emission factors. *Atmospheric Environment* 34(26):4537-4549, 2000.(Cited 627 times as of 1/13/2023)
16. **Zhang J**, Zhang L, Fan Z and Ilacqua V. Development of the Personal Aldehydes and Ketones Sampler Based upon DNSH Derivatization on Solid Sorbent. *Environmental Science & Technology.* 34(12):2601-2607, 2000.
    (Cited 78 times as of 1/13/2023)
17. Wainman T, **Zhang J**, Weschler C, and Lioy PJ. Ozone and limonene in indoor air: a source of submicron particle exposure. *Environmental Health Perspectives*. 108 (12): 1139-1145, 2000.
    (Cited 313 times as of 1/13/2023)
18. Wei F, Hu W, Teng E, Wu G, **Zhang J**, and Chapman RS. Relation analysis of the air pollution and children's respiratory prevalence rates. *China Environmental Science*. 20(3): 220-224, 2000.
    (Cited 15 times as of 1/13/2023)
19. Hu W, Wei F, Teng E, Wu G, **Zhang J,** and Chapman RS. The impact of air pollution on respiratory health of children and their parents. *China Environmental Science*. 20(5): 425-428, 2000.
    (Cited 4 times as of 1/13/2023)
20. Hu W, Wei F, **Zhang J,** Wu G, Teng E, Chapman RS. Study on relation between air pollution and children's respiratory illness prevalence using a two-step regression method. *China Environmental Science.* 21(6): 485-489, 2001.
    (Cited 5 times as of 1/13/2023)
21. Wei F, Hu W, Wu G, Teng E, Zhang J, Chapman RS. Analysis of relation between air pollution and children's lung function indices. China Environmental Science, 21(5): 385-389, 2001.
    (Cited 5 times as of 1/13/2023)
22. Fan ZH, **Zhang J**, Fan CW, and Pennise DM. The MMT bag for emission source sampling: Design and evaluation. *Journal of the Air & Waste Management Association.* 51(1):60-68, 2001.
    (Cited 16 times times as of 1/13/2023)
23. Ge S, Bai ZP, Liu WL, Zhu T, Wang TJ, Qing S, and **Zhang J.** Boiler briquette coal versus raw coal: Part I - Stack gas emissions. *Journal of the Air & Waste Management Association*. 51(4):524-533, 2001.

(Cited 73 times as of 1/13/2023)

24. **Zhang J**, Ge S, and Bai Z. Boiler briquette coal versus raw coal: Part II--Energy, greenhouse gas, and air quality implications. *J Air Waste Manag Assoc*. 51(4):534-41, 2001.
(Cited 23 times as of 1/13/2023)
25. Fan CW, and **Zhang J**. Characterization of emissions from portable household combustion devices: particle size distributions, emission rates and factors, and potential exposures. *Atmospheric Environment.* 35(7):1281-1290, 2001.
(Cited 151 times as of 1/13/2023)
26. Pennis DM, Smith KR, Kithinji JP, Rezende ME, Raad TJ, **Zhang J,** and Fan CW. Emissions of greenhouse gases and other airborne pollutants from charcoal making in Kenya and Brazil. *Journal of Geophysical Research-Atmospheres*. 106(D20):24143-24155, 2001.
(Cited 209 times as of 1/13/2023)
27. Purvis KL, Jumba IO, Wandiga S, **Zhang J,** and Kammen DM. Worker exposure and health risks from volatile organic compounds utilized in the paint manufacturing industry of Kenya. *Appl Occup Environ Hyg*. 16(11):1035-42, 2001.
(Cited 14 times as of 1/13/2023)
28. Qian Z, **Zhang J**, Wei F, Wilson WE, and Chapman RS. Long-term ambient air pollution levels in four Chinese cities: inter-city and intra-city concentration gradients for epidemiological studies. *J Expo Anal Environ Epidemiol*. 11(5):341-351, 2001.
(Cited 83 times as of 1/13/2023)
29. Wainman T, Weschler CJ, Lioy PJ, and **Zhang J**. Effects of surface type and relative humidity on the production and concentration of nitrous acid in a model indoor environment. *Environmental Science & Technology.* 35(11):2200-2206, 2001.
(Cited 79 times as of 1/13/2023)
30. Mitra AP, Morawska L, Sharma C, and **Zhang J**. Chapter two: methodologies for characterisation of combustion sources and for quantification of their emissions. *Chemosphere.* 49(9):903-922, 2002.
(Cited 69 times as of 1/13/2023)
31. Morawska L, and **Zhang J**. Combustion sources of particles. 1. Health relevance and source signatures. *Chemosphere.* 49(9):1045-58, 2002.
(Cited 428 times as of 8/12/19)
32. Rich DQ, Rhoads GG, Yiin LM, **Zhang J**, Bai ZP, Adgate JL, Ashley PJ and Lioy PJ. Comparison of home lead dust reduction techniques on hard surfaces: The New Jersey Assessment of Cleaning Techniques Trial. *Environmental Health Perspectives*. 110(9):889-893, 2002.
(Cited 21 times as of 1/13/2023)
33. Yiin LM, Rhoads GG, Rich DQ, **Zhang J**, Bai Z, Adgate JL, Ashley PJ and Lioy PJ. Comparison of techniques to reduce residential lead dust on carpet and upholstery: the new jersey assessment of cleaning techniques trial. *Environ Health Perspect.* 110(12):1233-7, 2002.
(Cited 26 times as of 1/13/2023)
34. **Zhang J**, Hu W, Wei F, Wu G, Korn LR and Chapman RS. Children's respiratory morbidity prevalence in relation to air pollution in four Chinese cities. *Environ Health Perspect.* 110(9):961-7, 2002.
(Cited 217 times as of 1/13/2023)
35. **Zhang J** and Lioy PJ. Human exposure assessment in air pollution systems. *ScientificWorldJournal* 2(497-513, 2002.
(Cited 24 times as of 1/13/2023)

36. Mitra A.P., Morawska L., Sharma C., and **Zhang J**. Methodologies for characterization of combustion sources and for quantification of their emissions. *Chemosphere* 2002, 49: 903-922.
(Cited 69 times as of 1/13/2023)
37. **Zhang J** and Morawska L. Combustion sources of particles: 2. Emission factors and measurement methods. *Chemosphere.* 49(9):1059-74, 2002.
(Cited 94 times as of 1/13/2023)
38. **Zhang J** and Smith K.R. Indoor air pollution: A global health concern. In Impact of Environmental Pollution on Health: Balancing Risk, Ed: Briggs DJ, Joffe M, Elliot P. *British Medical Bulletin*, 2003, 68: 209-225.
(Cited 436 times as of 1/13/2023)
39. Bai Z, Wang Z, Zhu T and **Zhang J**. Developing Indoor Air Quality Related Standards in China. *Journal of Asian Architecture and Building Engineering*. 2(1):55-60, 2003.
(Cited 34 times as of 1/13/2023)
40. Bai ZP, Yiin LM, Rich DQ, Adgate JL, Ashley PJ, Lioy PJ, Rhoads GG and **Zhang J**. Field evaluation and comparison of five methods of sampling lead dust on carpets. *AIHA Journal.* 64(4):528-532, 2003.
(Cited 17 times as of 1/13/2023)
41. Fan Z, Lioy P, Weschler C, Fiedler N, Kipen H, and **Zhang, J**. Ozone-initiated reactions with volatile organic compounds under a simulated indoor environment. *Environmental Science & Technology*, 37: 1811-1821, 2003.
(Cited 225 times as of 1/13/2023)
42. Edwards RD, Smith KR, **Zhang J** and Ma YQ. Models to predict emissions of health-damaging pollutants and global warming contributions of residential fuel/stove combinations in China. *Chemosphere.* 50(2):201-215, 2003.
(Cited 61 times as of 1/13/2023)
43. Liu WL, **Zhang J**, Hashim JH, Jalaludin J, Hashim Z and Goldstein BD. Mosquito coil emissions and health implications. *Environmental Health Perspectives.* 111(12):1454-1460, 2003.
(Cited 265 times as of 1/13/2023)
44. Tsai SM, **Zhang J**, Smith KR, Ma YQ, Rasmussen RA and Khalil MAK. Characterization of non-methane hydrocarbons emitted from various cookstoves used in China. *Environmental Science & Technology*. 37(13):2869-2877, 2003.
(Cited 101 times as of 1/13/2023)
45. Zhang L, Chung FL, Boccia L, Colosimo S, Liu WL and **Zhang J**. Effects of garage employment and tobacco smoking on breathing-zone concentrations of carbonyl compounds. *American Industrial Hygiene Association Journal.* 64(3):388-393, 2003.
(Cited 8 times as of 1/13/2023)
46. Edwards RD, Smith KR, **Zhang J** and Ma YQ. Implications of changes in household stoves and fuel use in China. *Energy Policy* 32(3):395-411, 2004.
(Cited 183 times as of 1/13/2023)
47. Ge S, Xu X, Chow JC, Watson J, Sheng Q, Liu WL, Bai ZP, Zhu T and **Zhang J**. Emissions of air pollutants from household stoves: Honeycomb coal versus coal cake. *Environmental Science & Technology*. 38(17):4612-4618, 2004.
(Cited 112 times as of 1/13/2023)
48. Offenberg JH, Naumova YY, Turpin BJ, Eisenreich SJ, Morandi MT, Stock T, Colome SD, Winer AM, Spektor DM, **Zhang J** and Weisel CP. Chlordanes in the indoor and outdoor air of three U.S. cities. *Environ Sci Technol.* 38(10):2760-8, 2004.

(Cited 44 times as of 1/13/2023)

49. Qian ZM, Chapman RS, Hu W, Wei FS, Korn LR and **Zhang J**. Using air pollution based community clusters to explore air pollution health effects in children. *Environment International.* 30(5):611-620, 2004.
(Cited 104 times as of 1/13/2023)

50. Qian ZM, **Zhang J**, Korn LR, Wei FS and Chapman RS. Factor analysis of household factors: are they associated with respiratory conditions in Chinese children? *International Journal of Epidemiology.* 33(3):582-588, 2004.
(Cited 72 times as of 1/13/2023)

51. Qian ZM, **Zhang J**, Korn LR, Wei FS and Chapman RS. Exposure-response relationships between lifetime exposure to residential coal smoke and respiratory symptoms and illnesses in Chinese children. *Journal of Exposure Analysis and Environmental Epidemiology*. 14(S78-S84, 2004.
(Cited 32 times as of 1/13/2023)

52. Shendell DG, Winer AM, Stock TH, Zhang L, **Zhang J**, Maberti S and Colome SD. Air concentrations of VOCs in portable and traditional classrooms: Results of a pilot study in Los Angeles County. *Journal of Exposure Analysis and Environmental Epidemiology.* 14(1):44-59, 2004.
(Cited 65 times as of 1/13/2023)

53. Wang Z, Bai Z, Yu H, **Zhang J** and Zhu T. Regulatory standards related to building energy conservation and indoor-air-quality during rapid urbanization in China. *Energy and Buildings.* 36(12):1299-1308, 2004.
(Cited 95 times as of 1/13/2023)

54. Weisel CP, **Zhang J**, Turpin BJ, Morandi MT, Colome S, Stock TH, Spektor DM, Korn L, Winer A, Alimokhtari S, Kwon J, Mohan K, Harrington R, Giovanetti R, Cui W, Afshar M, Maberti S and Shendell D. Relationship of Indoor, Outdoor and Personal Air (RIOPA) study: study design, methods and quality assurance//control results. *J Expo Anal Environ Epidemiol*. 15(2):123-137, 2004.
(Cited 182 times as of 1/13/2023)

55. Xu X, **Zhang J**, Zhang L, Liu WL and Weisel CP. Selective detection of monohydroxy metabolites of polycyclic aromatic hydrocarbons in urine using liquid chromatography/triple quadrupole tandem mass spectrometry. *Rapid Communications in Mass Spectrometry.* 18(19):2299-2308, 2004.
(Cited 120 times as of 1/13/2023)

56. Fan ZH, Weschler CJ, Han IK and **Zhang J**. Co-formation of hydroperoxides and ultra-fine particles during the reactions of ozone with a complex VOC mixture under simulated indoor conditions. *Atmospheric Environment.* 39(28):5171-5182, 2005.
(Cited 84 times as of 1/13/2023)

57. Fiedler N, Laumbach R, Kelly-McNeil K, Lioy P, Fan ZH, **Zhang J**, Ottenweller J, Ohman-Strickland P and Kipen H. Health effects of a mixture of indoor air volatile organics, their ozone oxidation products, and stress. *Environmental Health Perspectives.* 113(11):1542-1548, 2005.
(Cited 154 times as of 1/13/2023)

58. Herrington J, Zhang L, Whitaker D, Sheldon L and **Zhang J**. Optimizing a dansylhydrazine (DNSH) based method for measuring airborne acrolein and other unsaturated carbonyls. *Journal of Environmental Monitoring.* 7(10):969-976, 2005.
(Cited 29 times as of 1/13/2023)

59. Hore P, Robson M, Freeman N, **Zhang J**, Wartenberg D, Ozkaynak H, Tulve N, Sheldon L, Needham L, Barr D and Lioy PJ. Chlorpyrifos Accumulation Patterns for Child-Accessible Surfaces and Objects and Urinary Metabolite Excretion by Children for 2 Weeks after Crack-and-Crevice Application. *Environmental Health Perspectives.* 113(2):211-219, 2005.

(Cited 40 times as of 1/13/2023)

60. Laumbach RJ, Fiedler N, Gardner CR, Laskin DL, Fan ZH, **Zhang J**, Weschler CJ, Lioy PJ, Devlin RB, Ohman-Strickland P, Kelly-McNeil K and Kipen HM. Nasal effects of a mixture of volatile organic compounds and their ozone oxidation products. *Journal of Occupational and Environmental Medicine.* 47(11):1182-1189, 2005.
(Cited 45 times as of 1/13/2023)

61. Meng QY, Turpin BJ, Korn L, Weisel CP, Morandi M, Colome S, **Zhang J**, Stock T, Spektor D, Winer A, Zhang L, Lee JH, Giovanetti R, Cui W, Kwon J, Alimokhtari S, Shendell D, Jones J, Farrar C and Maberti S. Influence of ambient (outdoor) sources on residential indoor and personal $PM_{2.5}$ concentrations: Analyses of RIOPA data. *Journal of Exposure Analysis and Environmental Epidemiology.* 15(1):17-28, 2005.
(Cited 305 times as of 1/13/2023)

62. Meng QY, Turpin BJ, Polidori A, Lee JH, Weisel C, Morandi M, Colome S, Stock T, Winer A and **Zhang J**. $PM_{2.5}$ of ambient origin: Estimates and exposure errors relevant to PM epidemiology. *Environmental Science & Technology.* 39(14):5105-5112, 2005.
(Cited 88 times as of 1/13/2023)

63. Reff A, Turpin BJ, Porcja RJ, Giovennetti R, Cui W, Weisel CP, **Zhang J**, Kwon J, Alimokhtari S, Morandi M, Stock T, Maberti S, Colome S, Winer A, Shendell D, Jones J and Farrar C. Functional group characterization of indoor, outdoor, and personal PM2.5: results from RIOPA. *Indoor Air.* 15(1):53-61, 2005.
(Cited 55 times as of 1/13/2023)

64. **Zhang J**, Hu W, Wei F, Wu G, Cheng W-L and Chapman RS. Long-term changes in air pollution and health implications in four Chinese cities. *Energy for Sustainable Development.* 9(3):67-76, 2005.
(Cited 9 times as of 1/13/2023)

65. Kwon J, Weisel CP, Turpin BJ, **Zhang J**, Korn LR, Morandi MT, Stock TH and Colome S. Source Proximity and Outdoor-Residential VOC Concentrations: Results from the RIOPA Study. *Environmental Science & Technology.* 40(13):4074-4082, 2006.
(Cited 69 times as of 1/13/2023)

66. Liu W, **Zhang J**, Kwon J, Weisel C, Turpin B, Zhang L, Korn L, Morandi M, Stock T and Colome S. Concentrations and source characteristics of airborne carbonyl compounds measured outside urban residences. *J Air Waste Manag Assoc.* 56(8):1196-204, 2006
(Cited 29 times as of 1/13/2023)

67. Liu W, Zhang J, Zhang L, Turpin BJ, Weisel CP, Morandi MT, Stock TH, Colome S and Korn LR. Estimating contributions of indoor and outdoor sources to indoor carbonyl concentrations in three urban areas of the United States. *Atmospheric Environment*. 40(12):2202-2214, 2006.
(Cited 184 times as of 1/13/2023)

68. Polidori A, Turpin B, Meng QY, Lee JH, Weisel C, Morandi M, Colome S, Stock T, Winer A, **Zhang J**, Kwon J, Alimokhtari S, Shendell D, Jones J, Farrar C and Maberti S. Fine organic particulate matter dominates indoor-generated PM2.5 in RIOPA homes. *Journal of Exposure Science and Environmental Epidemiology.* 16(4):321-331, 2006.
(Cited 86 times as of 1/13/2023)

69. Straif K., Baan R., Grosse Y., Secretan B., Ghissassi F.E., Cogliano V., on behalf of the WHO International Agency for Research on Cancer Monograph Working Group (**Zhang, J.**, member). Carcinogenicity of household solid fuel combustion and high-temperature frying, *Lancet-Oncology* 2006, 7:977-978.
(Cited 219 times as of 1/13/2023)

70. Adgate JL, Mongin SJ, Pratt GC, **Zhang J**, Field MP, Ramachandran G and Sexton K. Relationships between personal, indoor, and outdoor exposures to trace elements in $PM_{2.5}$. *Science of The Total Environment.* 386(1-3):21-32, 2007.
(Cited 70 times as of 1/13/2023)
71. Blanset DL, **Zhang J** and Robson MG. Probabilistic estimates of lifetime daily doses from consumption of drinking water containing trace levels of N,N-diethyl-meta-toluamide (DEET), triclosan, or acetaminophen and the associated risk to human health. *Human and Ecological Risk Assessment*. 13(3):615-631, 2007.
(Cited 41 times as of 1/13/2023)
72. Cheng WL, Chen YS, **Zhang J**, Lyons TJ, Pai JL and Chang SH. Comparison of the Revised Air Quality Index with the PSI and AQI indices. *Science of the Total Environment.* 382(2-3):191-198, 2007.
(Cited 147 times as of 1/13/2023)
73. Herrington JS, Fan ZH, Lioy PJ and **Zhang J**. Low acetaldehyde collection efficiencies for 24-hour sampling with 2,4-dinitrophenylhydrazine (DNPH)-coated solid sorbents. *Environmental Science & Technology.* 41(2):580-585, 2007.
(Cited 44 times as of 1/13/2023)
74. Liu W, **Zhang J**, Korn LR, Zhang L, Weisel CP, Turpin B, Morandi M, Stock T and Colome S. Predicting personal exposure to airborne carbonyls using residential measurements and time/activity data. *Atmospheric Environment.* 41(25):5280-5288, 2007.
(Cited 48 times as of 1/13/2023)
75. McCreanor J, Cullinan P, Nieuwenhuijsen MJ, Stewart-Evans J, Malliarou E, Jarup L, Harrington R, Svartengren M, Han I, Ohman-Strickland P, Chung KF and **Zhang J**. Respiratory effects of exposure to diesel traffic in persons with asthma. *New England Journal of Medicine.* 357(23):2348-2358, 2007.
(Cited 1,082 times as of 1/13/2023)
76. Meng QY, Turpin BJ, Lee JH, Polidori A, Weisel CP, Morandi M, Colome S, **Zhang J**, Stock T and Winer A. How Does Infiltration Behavior Modify the Composition of Ambient $PM_{2.5}$ in Indoor Spaces? An Analysis of RIOPA Data. *Environ Sci & Technol.* 41(21):7315-7321, 2007.
(Cited 76 times as of 1/13/2023)
77. Mitchell CS, **Zhang J**, Sigsgaard T, Jantunen M, Lioy PJ, Samson R and Karol MH. Current state of the science: Health effects and indoor environmental quality. *Environmental Health Perspectives.* 115(6):958-964, 2007.
(Cited 288 times as of 1/13/2023)
78. Reff A, Turpin BJ, Offenberg JH, Weisel CP, **Zhang J**, Morandi M, Stock T, Colome S and Winer A. A functional group characterization of organic $PM_{2.5}$ exposure: Results from the RIOPA study. *Atmospheric Environment*. 41(22):4585-4598, 2007.
(Cited 50 times as of 1/13/2023)
79. Weschler CJ, Wisthaler A, Cowlin S, Tamas G, Strom-Tejsen P, Hodgson AT, Destaillats H, Herrington J, **Zhang J** and Nazaroff WW. Ozone-initiated chemistry in an occupied simulated aircraft cabin. *Environmental Science & Technology.* 41(17):6177-6184, 2007.
(Cited 184 times as of 1/13/2023)
80. **Zhang J** and Smith KR. Household air pollution from coal and biomass fuels in China: Measurements, health impacts, and interventions. *Environ Health Perspect.* 115(6):848-55, 2007.
(Cited 854 times as of 1/13/2023)
81. Zhu K, **Zhang J** and Lioy PJ. Evaluation and comparison of continuous fine particulate matter monitors for measurement of ambient aerosols. *J Air Waste Manag Assoc*. 57(12):1499-506, 2007.

(Cited 61 times as of 1/13/2023)

82. Han I-K, Duan X, Zhang L, Yang H, Rhoads GG, Wei F and **Zhang J**. 1-Hydroxypyrene concentrations in first morning voids and 24-h composite urine: intra- and inter-individual comparisons. *J Expos Sci Environ Epidemiol*. 18(5):477-485, 2008.
(Cited 22 times as of 1/13/2023)

83. Fiedler N, Kelly-Mcneil K, Ohman-Strickland P, **Zhang J**, Ottenweller J and Kipen HM. Negative affect and chemical intolerance as risk factors for building-related symptoms: A controlled exposure study. *Psychosomatic Medicine.* 70(2):254-262, 2008.
(Cited 25 times as of 1/13/2023)

84. Fiedler N, Kipen H, Ohman-Strickland P, **Zhang J**, Weisel C, Laumbach R, Kelly-McNeil K, Olejeme K and Lioy P. Sensory and cognitive effects of acute exposure to hydrogen sulfide. *Environmental Health Perspectives*. 116(1):78-85, 2008.
(Cited 53 times as of 1/13/2023)

85. Han J-F, He X-Y, Herrington JS, White LA, **Zhang J** and Hong J-Y. Metabolism of 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) by Human CYP1B1 Genetic Variants. *Drug Metab Dispos dmd*.107.016824, 2008.
(Cited 8 times as of 1/13/2023)

86. Herrington JS and **Zhang J**. Development of a method for time-resolved measurement of airborne acrolein. *Atmospheric Environment*. 42(10):2429-2436, 2008.
(Cited 13 times as of 1/13/2023)

87. **Zhang J**, Han I-K, Zhang L and Crain W. Hazardous chemicals in synthetic turf materials and their bioaccessibility in digestive fluids. *J Expos Sci Environ Epidemiol.* 18(6):600-607, 2008.
(Cited 82 times as of 1/13/2023)

88. Zhu X, Fan Z, Wu X, Meng Q, Wang S-w, Tang X, Ohman-Strickland P, Georgopoulos P, **Zhang J**, Bonanno L, Held J and Lioy P. Spatial variation of volatile organic compounds in a "Hot Spot" for air pollution. *Atmospheric Environment.* 42(32):7329-7338, 2008.
(Cited 42 times as of 1/13/2023)

89. Gandhi S, Pettit AP, Ohman-Strickland P, Gow A, **Zhang J**, Lauer E, Kipen HM. Two Methods for Measurement of Acute Changes in Endothelial Function Following Diesel Exhaust Inhalation. *American Journal of Respiratory and Critical Care Medicine*. 179:A3164, 2009.
(Cited 3 times as of 1/13/2023)

90. Laumbach R, Tong J, Zhang L, Ohman-Strickland P, Stern A, Fiedler N, Kipen H, Kelly-McNeil K, Lioy P and **Zhang J**. Quantification of 1-aminopyrene in human urine after a controlled exposure to diesel exhaust. *Journal of Environmental Monitoring.* 11(1):153-159, 2009.
(Cited 49 times as of 1/13/2023)

91. Wei Y, Han IK, Shao M, Hu M, **Zhang J** and Tang X. PM2.5 constituents and oxidative DNA damage in humans. *Environ Sci Technol.* 43(13):4757-62, 2009.
(Cited 101 times as of 1/13/2023)

92. Blando JD, Schill DP, De La Cruz MP, Zhang L, **Zhang J.** Preliminary study of propyl bromide exposure among New Jersey dry cleaners as a result of a pending ban on perchloroethylene. *Journal of Air & Waste Management Association.* 60:1049–1056, 2010.
(Cited 14 times as of 1/13/2023)

93. Kipen H, Rich DQ, Huang W, Zhu T, Wang G, Hu M, Lu SE, Ohman-Strickland P, Zhu P, Wang Y, **Zhang J.** Measurement of inflammation and oxidative stress following drastic changes in air pollution during the Beijing Olympics: a panel study approach. *Annals of the New York Academy of Sciences.* 1203:160–167, 2010.
(Cited 53 times as of 1/13/2023)
94. Laumbach RJ, Rich DQ, Gandhi S, Amorosa L, Schneider S, **Zhang J**, Ohman-Strickland P, Gong J, Lelyanov O, Kipen HM. Acute Changes in Heart Rate Variability in Type 2 Diabetes Following a Highway Traffic Exposure. *Journal of Occupational and Environmental Medicine.* 52:324-31, 2010.
(Cited 45 times as of 1/13/2023)
95. Rich DQ, Kipen HM, **Zhang J**., Kamat L., Wilson AC. Triggering of transmural infarctions, but not non-transmural infarctions, by ambient fine particles. *Environmental Health Perspectives*. 118:1229–1234, 2010.
(Cited 57 times as of 1/13/2023)
96. **Zhang J**, Mauzerall DL, Zhu T, Liang S, Ezatti M, Remais, JV. Environmental health in China: challenges to achieving clean air and safe water. *The Lancet* 2010; 375: 1110–19.
(Cited 449 times as of 1/13/2023)
97. Yamamoto N, Shendell DG, Winer AM, **Zhang J**. Residential air exchange rates in three major U.S. metropolitan areas: Results from the RIOPA Study 1999-2001. *Indoor Air.* 20:85-90, 2010.
(Cited 170 times as of 1/13/2023)
98. Zhang L, Jiang Z, Tong J, Wang Z, Han Z, **Zhang J.** Using charcoal as base materials reduces mosquito coil emissions of toxins. *Indoor Air*. 20:176-184, 2010.
(Cited 57 times as of 1/13/2023)
99. Wei Y, Han IK, Hu M , Shao M, **Zhang J**, Tang, X. Personal exposure to particulate PAHs and anthraquinone and oxidative DNA damages in humans. *Chemosphere*. 81:1280-1285, 2010.
(Cited 117 times as of 1/13/2023)
100. Huyck S, Ohman-Strickland P, Zhang L, Tong J, Xu X, **Zhang J.** Determining times to maximum urine excretion of 1-aminopyrene following diesel exhaust exposure. *J. of Exposure Science and Environmental Epidemiology. 20: 650-655, 2010.*
(Cited 19 times as of 1/13/2023)
101. Borjan M, Marcella S, Blount B, Greenberg M, **Zhang J**, Murphy E, Blasini L, Robson M. Perchlorate exposure in lactating women in an urban community in New Jersey. *Science of the Total Environmental*, 409(3): 460-464, 2011.
(Cited 40 times as of 1/13/2023)
102. Kipen H, Gandhi S, Rich DQ, Ohman-Strickland P, Laumbach R, Fan ZH, Chen L, Laskin D, **Zhang J**, Madura K. Acute decreases in proteasome pathway activity following inhalation of fresh diesel exhaust or secondary organic aerosol. *Environmental Health Perspectives*. 119: 658-663, 2011.
(Cited 48 times as of 1/13/2023)
103. Laumbach RJ, Kipen HM, Kelly-McNeil K, **Zhang J**, Zhang L, Lioy PJ, Ohman-Strickland P, Gong J, Kusnecov A, Fiedler N. Sickness Response Symptoms among Healthy Volunteers after Controlled Exposures to Diesel Exhaust and Psychological Stress. *Environ Health Perspectives.* 119: 945-950, 2011.
(Cited 16 times as of 1/13/2023)
104. Remais JV, **Zhang J.** Environmental Lessons from China: Finding Promising Policies in Unlikely Places. *Environ Health Perspectives.* 119: 893-895, 2011.
(Cited 11 times as of 1/13/2023)
105. Chung KF, **Zhang J,** Zhong N. Outdoor air pollution and respiratory health in Asia. *Respirology.* 16(7):1023-

1026, 2011.
(Cited 72 times as of 1/13/2023)

106. Roy A, Chapman R, Hu W, Wei F, Liu X, **Zhang J.** Indoor air pollution and lung function growth among children in four Chinese cities. *Indoor Air.* 22(1):3-11, 2012.
(Cited 41 times as of 1/13/2023)

107. Pettit AP, Brooks A, Laumbach R, Fiedler N, Wang Q, Ohman-Strickland P, Madura K, **Zhang J**, Kipen H. Alteration of peripheral blood monocyte gene expression in humans following diesel exhaust inhalation. *Inhalation Toxicology,* 24(3): 172-181, 2012.
(Cited 47 times as of 1/13/2023)

108. Sarkar S, Song Y, Kipen HM, Laumbach RJ, **Zhang J**, Ohman-Strickland P, Gardner CR, Schwander S. Suppression of the NF-kB Pathway by Diesel Exhaust Particles Impairs Human Antimyobacterial Immunity. *Immunology*. 188(6): 2778-93, 2012.
(Cited 72 times as of 1/13/2023)

109. Roy A, Hu W, Korn L, Chapman R, **Zhang J.** Ambient particulate matter and lung function growth in Chinese children. *Epidemiology.* 23: 464-472, 2012.
(Cited 83 times as of 1/13/2023)

110. Rich DQ, Kipen HM, Huang W, Wang G, Wang Y, Zhu P, Ohman- Strickland P, Hu M, Philipp C, Diehl SR, Lu SE, Tong J, Gong J, Thomas D, Zhu T, **Zhang J.** Association between Changes in Air Pollution Levels during the Beijing Olympics and Biomarkers of Inflammation and Thrombosis in Healthy Young Adults. *JAMA (Journal of American Medical Association).* 307: 2068-2078, 2012.
(Cited 413 times as of 1/13/2023)
(This paper was recognized as one of the 30 Papers of the Year, from nearly 2500 NIEHS-funded studies published in 2012. PMCID: PMC4049319.)

111. Hussain S, Laumbach RJ, Coleman J, Youseff H, kelly-McNeil K, Ohman-Strickland P, **Zhang J,** Kipen H. Controlled Exposure to Diesel Exhaust Causes Increased Nitrite in Exhaled Breath Condensate Among Subjects with Asthma. *Journal of Occupational and Environmental Medicine*, 54(10):1186-1191, 2012.
(Cited 45 times as of 1/13/2023)

112. Huang W, Wang G, Lu SE, Kipen HM, Wang Y, Hu M, Lin W, Rich DQ, Ohman-Strickland P, Diehl SR, Zhu P, Tong J, Gong J, Zhu T, **Zhang J.** Inflammatory and Oxidative Stress Responses of Healthy Young Adults to Changes in Air Quality during the Beijing Olympics. *American Journal of Respiratory and Critical Care Medicine.* 186(11):1150-9, 2012.
(Cited 234 times as of 1/13/2023)

113. Gong J, Zhu T, Kipen HM, Wang G, Hu M, Ohman-Strickland P, Lu SE, Zhang L, Wang Y, Zhu P, Rich DQ, Diehl SR, Huang W, Tong J, **Zhang J.** Malondialdehyde in Exhaled Breath Condensate and Urine as a Biomarker of Air Pollution Induced Oxidative Stress. *Journal Of Exposure Science And Environmental Epidemiology*. 23(3):322-7, 2013.
(Cited 80 times as of 1/13/2023)

114. Mapou AEM, Shendell DG, Therkorn JH, Xiong Y, Meng Q, **Zhang J.** Aldehydes in Passenger Vehicles: An analysis of data from the RIOPA Study 1999-2001. *Atmospheric Environment.* 79:751-759, 2013.
(Cited 10 times as of 1/13/2023)

115. Rich DQ, Ozkaynak H, Crooks J, Baxter L, Burke J, Ohman-Strickland P, Thevenet Morrison K, Kipen HM, **Zhang J**, Kostis J, Lunden M, Hodas N, Turpin B. The triggering of myocardial infarction by fine particles is enhanced when particles are enriched secondary species. *Environmental Science and Technology*. 47(16):9414-23, 2013.
(Cited 45 times as of 1/13/2023)

116. Adetona O, **Zhang J**, Hall DB, Wang J-S, Vena JE, Naeher LP. Occupational Exposure to Woodsmoke and Oxidative Stress in Wildland Firefighters. *Science of the Total Environment*. 449:269-275, 2013.
(Cited 53 times as of 1/13/2023)
117. Commodore AA, **Zhang J**, Chang Y, Hartinger SM, Lanata CF, Mäusezahl D, Gil AI, Hall DB, Aguilar-Villalobos M, Vena JE, Wang JS, Naeher LP. Concentrations of Urinary 8-Hydroxy-2'-deoxyguanosine and 8-isoprostane in Women Exposed to Woodsmoke in a Cookstove Intervention Study in San Marcos, Peru. *Environment International.* 2013, 60:112-122.
(Cited 47 times as of 1/13/2023)
118. Leo BF, Chen S, Kyo Y, Herpoldt KL, Terrill NJ, Dunlop IE, McPhail DS, Shaffer MS, Schwander S, Gow A, **Zhang J,** Chung KF, Tetley TD, Porter AE, Ryan MP. The Stability of Silver Nanoparticles in a Model of Pulmonary Surfactant. *Environmental Science and Technology*. 2013, 47: 11232–11240.
(Cited 115 times as of 1/13/2023)
119. Chen S, Goode AE, Sweeney S, Theodorou IG, Thorley AJ, Ruenraroengsak P, Chang Y, Gow A, Schwander S, Skepper J, **Zhang J**, Shaffer MS, Chung KF, Tetley TD, Ryan MP, Porter AE. Sulfidation of silver nanowires inside human alveolar epithelial cells: a potential detoxification mechanism. *Nanoscale.* 2013, 5:9839-47.
(Cited 62 times as of 1/13/2023)
120. Li F, Wiegman C, Seiffert JM, Zhu J, Clarke C, Chang Y, Bhavsar P, Adcock I, **Zhang J**, Zhou X, Chung KF. Effects of N-acetylcysteine in ozone-induced chronic obstructive pulmonary disease model. *PLOS ONE*, 2013, 8: e80782.
(Cited 56 times as of 1/13/2023)
121. **Zhang J**, Nazarenko Y, Zhang L, Calderon L, Lee KB, Garfunkel E, Schwander S, Tetley TD, Chung KF, Porter AE, Ryan M, Kipen H, Lioy PJ, Mainelis G. Impacts of a Nanosized Ceria Additive on Diesel Engine Emissions of Particulate and Gaseous Pollutants. *Environmental Science and Technology,* 47 (22),13077–13085, 2013.
(Cited 81 times as of 1/13/2023)
122. Chen S, Theodorou IG, Goode AE, Gow A, Schwander S, **Zhang J**, Chung KF, Tetley TD, Shaffer MS, Ryan MP, Porter AE. High resolution analytical electron microscopy reveals cell culture media induced changes to the chemistry of silver nanowires. *Environmental Science and Technology,* 2013*,* 47: 13813-13821.
(Cited 36 times as of 1/13/2023)
123. Yuan Z, Chen Y, Zhang Y, Liu H, Liu Q, Zhao J, Hu M, Huang W, Wang G, Zhu T, **Zhang J**, Zhu P. Changes of plasma vWF level in response to the improvement of air quality: an observation of 114 healthy young adults. *Annals of Hematology.* 2013, 92:543-8.
(Cited 12 times as of 1/13/2023)
124. Mukherjee D, Botelho D, Gow AJ, **Zhang J**, Georgopoulos PG. Computational Multiscale Toxcodynamic Modeling of Silver and Carbon Nanoparticle Effects on Mouse Lung Function. *PLOS ONE.* 2013. 8:e80917.
(Cited 16 times as of 1/13/2023)
125. Sarkar S, Zhang L, Subramaniam P, Lee KB, Garfunkel E, Strickland PA, Mainelis G, Lioy PJ, Tetley TD, Chung KF, **Zhang J**, Ryan M, Porter A, Schwander S. Variability in Bioreactivity Linked to Changes in Size and Zeta Potential of Diesel Exhaust Particles in Human Immune Cells. *PLOS ONE.* 2014, 9: e97304, 2014.
(Cited 15 times as of 1/13/2023)
126. Chang Y, Nguyen C, Paranjpe VR, Gilliland F, **Zhang J**. Analysis of Bispherol, a Diglycidyl Ether (BADGE) and its Hydrolytic Metabolites in Biological Specimens by High-Performance Liquid Chromatography Tendem Mass Spectrometry. *Journal of Chromatography B Analyt Technol Biomed Life Sci.* 2014, 965:33-38.
(Cited 24 times as of 1/13/2023)
127. Neophytou AM, Hart JE, Chang Y, **Zhang J**, Smith TJ, Garshick E, Laden F. Short-Term Traffic-Related Exposures and Biomarkers of Nitro-PAH Exposure and Oxidative DNA Damage. *Toxics.* 2014. 2:377-390.
(Cited 27 times as of 1/13/2023)

128. Mu L, Deng F, Tian L, Li Y, Swanson M, Ying J, Browne RW, Rittenhouse-Olson K, **Zhang J**, Zhang ZF, Bonner MR. Peak expiratory flow, breath rate and blood pressure in adults with changes in particulate matter air pollution during the Beijing Olympics: a panel study. *Environ Res.* 2014 Aug;133:4-11.
(Cited 71 times as of 1/13/2023)
129. Mukherjee D, Leo BF, Royce SF, Porter AE, Ryan MP, Schwander S, Chung KF, Tetley TD, **Zhang J**, Georgopoulos PG. Modeling physiochemical interactions affecting in vitro cellular dosimetry of engineered nanomaterials: application to nanosilver. *Journal of Nanoparticle Research.* 2014. 16:2616.
(Cited 27 times as of 1/13/2023)
130. Royce S, Mukherjee D, Cai T, Xu S, Alexander JA, Mi Z, Calderon L, Mainelis G, Lee K, Lioy P, Tetley T, Chung KF, **Zhang J**, Georgopoulos P. Modeling Population Exposures to Silver Nanoparticles Present in Consumer Products*. Journal of Nanoparticle Research.* 2014, 16: 2724.
(Cited 35 times as of 1/13/2023)
131. Mukherjee D, Royce SG, Sarkar S, Thorley A, Schwander S, Ryan MP, Porter AE, Chung KF, Tetley TD, **Zhang J**, Georgopoulos PG. Modeling in vitro cellular responses to silver nanoparticles. *Journal of Toxicology.* 2014. 2014:852-890.
(Cited 17 times as of 1/13/2023)
132. Roy A, Gong J, Thomas DC, **Zhang J**, Kipen HM, Rich DQ, Zhu T, Huang W, Hu M, Wang G, Wang Y, Zhu P, Lu SE, Ohman-Strickland P, Diehl SR, Eckel SP. The Cardiopulmonary Effects of Ambien Air Pollution and Mechanistic Pathways: A Comparative Hierarchical Pathway Analysis. *PLoS One*. 2014. 9:e114913.
(Cited 27 times as of 1/13/2023)
133. Laumbach RJ, Kipen HM, Ko S, Kelly-McNeil K, Cepeda C, Pettit A, Ohman-Strickland P, Zhang L, **Zhang J**, Gong J, Veleeparambil M, Gow AJ. A controlled trial of acute effects of human exposure to traffic particles on pulmonary oxidative stress and heart rate variability. *Particle and Fibre Toxicology*. 2014. doi:10.1186/s12989-014-0045-5.
(Cited 85 times as of 1/13/2023)
134. Gong J, Zhu T, Kipen H, Wang G, Hu M, Guo Q, Ohman-Strickland P, Lu SE, Wang Y, Zhu P, Rich DQ, Huang W, **Zhang J.** Comparisons of ultrafine and fine particles in their associations with biomarkers reflecting physiological pathways. *Environ Sci Technol.* 6;48(9):5264-73, 2014.
(Cited 109 times as of 1/13/2023)
135. **Zhang J**, Samet JM. Chinese haze versus Western smog: lessons learned. *J Thorac Dis.* 2015 Jan;7(1):3-13.
(Cited 82 times as of 1/13/2023)
136. Chung KF, **Zhang JJ,** Zhong N. Haze, health and disease. *J Thorac Dis.* 2015 Jan; 7(1): 1-2. PMC4311078.
(Cited 4 times as of 1/13/2023)
137. Botelho D, Shaffer M, Porter A, Chung KF, Tetley T, **Zhang J**, Gow A. Lung lining interaction determines the fate of multi-walled carbon nanotubes (MWCNTs) *in vivo*. *FASEB Journal*, 2015. https://doi.org/10.1096/fasebj.29.1_supplement.1016.2.
138. Sweeney S, Theodorou IG, Zambianchi M, Chen S, Gow A, Schwander S, **Zhang JJ**, Chung KF, Shaffer MS, Ryan MP, Porter AE, Tetley TD. Silver nanowire interactions with primary human alveolar type-II epithelial cell secretions: contrasting bioreactivity with human alveolar type-I and type-II epithelial cells. *Nanoscale.* 2015.7:10398-409. doi: 10.1039/c5nr01496d.
(Cited 31 times as of 1/13/2023)
139. Marchetti M, Shaffer MS, Zambianchi M, Chen S, Superti F, Schwander S, Gow A, **Zhang JJ,** Chung KF, Ryan MP, Porter AE, Tetley TD. Adsorption of surfactant protein D from human respiratory secretions by carbon nanotubes and polystyrene nanoparticles depends on nanomaterial surface modification and size. *Philos Trans R Soc Lond B Biol Sci*. 2015. 5;370(1661). pii: 20140038.
(Cited 17 times as of 1/13/2023)

140. Seiffert J, Hussain F, Wiegman C, Li F, Bey L, Baker W, Porter A, Ryan MP, Chang Y, Gow A, **Zhang J**, Zhu J, Tetley T, Chung KF. Pulmonary Toxicity of Instilled Silver Nanoparticles: Influence of Size, Coating and Rat Strain. *PLoS ONE.* 2015. 10: e0119726. doi: 10.1371/journal.pone.0119726.
(Cited 113 times as of 1/13/2023)
141. Altemose B, Gong J, Zhu T, Hu M, Zhang L, Cheng H, Zhang L, Tong J, Kipen HM, Ohman-Strickland P, Meng Q, Robson MG, **Zhang J.** Aldehydes in Relation to Air Pollution Sources: A Case Study around the Beijing Olympics. *Atmospheric Environment*. 2015. 109: 61-69.
(Cited 34 times as of 1/13/2023)
142. Botelho D, Leo B, Massa C, Sarkar S, Tetley T, Chung KF, Chen S, Ryan M, Porter A, **Zhang J,** Schwander S, Gow A. Low dose AgNPs reduce lung mechanical function and innate immune defense in the absence of cellular toxicity. *Nanotoxicology*. 2016 Feb;10(1):118-27. PMID: 26152688. PMC5033060.
(Cited 28 times as of 1/13/2023)
143. Rich DQ, Liu K**,** Thurston SW, Stevens TP, Pan Y, Kane C, Weinberger B, Ohman-Strickland P, Woodruff TJ, Duan X, Assibey-Mensah V, **Zhang J**. Differences in Birth Weight Associated with the 2008 Beijing Olympic Air Pollution Reduction: Results from a Natural Experiment. *Environ Health Perspectives.* 2015. 123: 880-887. PMC4559955.
(Cited 181 times as of 1/13/2023)
144. Theodorou I, Botelho D, Schwander S, **Zhang J,** Chung KF, Tetley T, Shaffer M, Gow A, Ryan M, Porter AE. Static and dynamic microscopy of the chemical stability and aggregation state of silver nanowires in components of murine pulmonary surfactant provides insights into bio-nano interactions. *Environ Sci Tech.* 2015. 49(13):8048-56.
(Cited 25 times times as of 1/13/2023)
145. Sweeney S, Theodorou IG, Zambianchi M, Chen S, Gow A, Schwander S, **Zhang J,** Chung KF, Shaffer MS, Ryan MP, Porter AE, Tetley TD. Silver nanowire interactions with primary human alveolar type-II epithelial cell secretions: contrasting bioreactivity with human alveolar type-I and type-II epithelial cells. *Nanoscale.* 2015. 7(23):10398-409.
(Cited 31 times as of 1/13/2023)
146. Mukherjee D, Porter, A, Ryan M, Schwander S, Chung KF, Tetley T, **Zhang J,** Georgopoulos P. Modeling In Vivo Interactions of Engineered Nanoparticles in the Pulmonary Alveolar Lining Fluid. *Nanomaterials (Basel).* 2015 Sep;5(3):1223-1249.
(Cited times as of 1/13/2023)
147. Gong J, Zhu T, Kipen H, Rich DQ, Huang W, Lin W-T, **Zhang J.** Urinary Polycyclic Aromatic Hydrocarbon Metabolites as Biomarkers of Exposure to Traffic-Emitted Pollutants. *Environmental International.* 2015. 85:104-110.
(Cited 19 times as of 1/13/2023)
148. Duan X, Shen G, Yang H, Lambert G, Wei F, **Zhang J.** Measurement of Human CYP1A2 Induction by inhalation exposure to Benzo(a)pyrene based on in vivo isotope breath method. *Environmental Pollution.* 2016, 208: 506-511. doi: 10.1016/j.envpol.2015.10.023. Epub 2015 Nov 6.
(Cited 3 times as of 1/13/2023)
149. Duan X, Shen G, Yang H, Tian J, Wei F, Gong J, **Zhang J**. Dietary Intake Polycyclic Aromatic Hydrocarbons (PAHs) and Associated Cancer Risk in a Cohort of Chinese Urban Adults: Inter- and Intra-Individual Variability. *Chemosphere.* 2015 Nov 24;144:2469-2475. doi: 10.1016/j.chemosphere.2015.11.019.
(Cited 63 times as of 1/13/2023)
150. Sarkar S, Leo BF, Carranza C, Chen S, Santiago-Rivas C, Porter AE, Ryan MP, Gow A, Chung KF, Tetley TD, **Zhang J,** Georgopoulos PG, Ohman-Strickland P, Schwander S. Modulation of Human Macrophage Responses to Mycobacterium tuberculosis by Silver Nanoparticles of Different Size and Surface Modification. *PLoS One.* 2015 10(11):e0143077. doi: 10.1371/journal.pone.0143077.
(Cited 39 times as of 1/13/2023)

151. Zhang N, Ni XY, Huang H, Zhao JL, Duarte M, **Zhang J.** The impact of interpersonal pre-warning information dissemination on regional emergency evacuation. *Arch Environ Occup Health*. 2015. DOI: 10.1007/s11069-015-2062-6
(Cited 10 times as of 1/13/2023)
152. Assibey-Mensah V, Liu K, Thurston SW, Stevens TP, **Zhang JJ,** Zhang J, Kane C, Pan Y, Weinberger B, Ohman-Strickland P, Woodruff T, Rich D. Impact of the 2008 Beijing Olympics on the Risk of Pregnancy Complications. *Arch Environ Occup Health.* 2016, 71: 208-215. PMC4676735
(Cited 10 times as of 1/13/2023)
153. Li F, Zhang P, Zhang M, Liang L, Sun X, Li M, Tang Y, Bao A, Gong J, **Zhang J,** Adcock I, Chung KF, Zhou X. Hydrogen Sulfide Prevents and Partially Reverses Ozone-Induced Feature of Lung Inflammation and Emphysema in Mice. *Am J Respir Cell Mol Biol.* 2016 Jan. DOI: 10.1165/rcmb.2015-0014OC.
(Cited 32 times as of 1/13/2023)
154. Zhang N, Huang H, Duarte M, **Zhang J**. Risk analysis for rumor propagation in metropolises based on improved 8-state ICSAR model and dynamic personal activity trajectories. *Physica A: Statistical Mechanics and its Applications*. doi:10.1016/j.physa.2015.12.131
(Cited 18 times as of 1/13/2023)
155. Wei Y, **Zhang J**, Li Z, Gow A, Chung KF, Hu M, Sun Z, Zeng L, Zhu T, Jia G, Li X, Duarte M, Tang, X. Chronic Exposure to Air Pollution Particles Increases the Risk of Obesity and Metabolic Syndrome: Findings from a Natural Experiment in Beijing. *FASEB*. 2016, 30:2115-2122
(Cited 193 times as of 1/13/2023)
156. Zhang N, Huang H, Duarte M, **Zhang JJ**. Dynamic population flow-based risk analysis of infectious disease propagation in a metropolis. *Environment International,* 2016, 94:369-379.
(Cited 31 times as of 1/13/2023)
157. Sweeney S, Leo BF, Chen S, Abraham-Thomas N, Thorley A, Gow A, Schwander S, **Zhang J**, Shaffer M, Chung KF, Ryan MP, Porter AE, Tetley TD. Pulmonary surfactant mitigates silver nanoparticle toxicity in human alveolar type-I-like epithelial cells. *Colloids and* Surfac*es B: Biointerfaces*, 2016, 145:167. doi: 10.1016/j.colsurfb.2016.04.040
(Cited 35 times as of 1/13/2023)
158. Altemose B, Robson MG, Kipen HM, Ohman-Strickland P, Meng Q, Gong J, Huang W, Wang G, Rich DQ, Zhu T, **Zhang J**. Association of Air Pollution Sources and Aldehydes with Biomarkers of Blood Coagulation, Pulmonary Inflammation, and Systemic Oxidative Stress. *Journal of Exposure Science and Environmental Epidemiology*.2016. doi:10.1038/jes.2016.38
(Cited 22 times as of 1/13/2023)
159. Bhatt P, Mirick DK, Randoph TW, Gong J, Buchanan DM, **Zhang J**, Davis S. Oxidative DNA Damage During Sleep Periods Among Nightshift Workers. *Occupational and Environmental Medicine* 2016, 73(8): 537-544.
(Cited 16 times as of 1/13/2023)
160. **Zhang J**, Lee KB, He L, Seiffert J, Subramaniam P, Yang L, Chen S, Maguire P, Mainelis G, Schwander S, Tetley T, Porter, A, Ryan M, Shaffer M, Hu S, Gong J, Chung KF. Effects of a nanoceria fuel additive on the physicochemical properties of diesel exhaust particles. *Environmental Science: Processes and Impacts* 2016, 18: 10236-10244.
(Cited 15 times as of 1/13/2023)
161. Xiang J, Weschler CJ, Mo J, Day D, **Zhang J**, Zhang Y. Ozone, electrostatic precipitators, and particle number concentrations: correlations observed in a real office during working hours. *Environmental Science & Technology.* 2016: 50: 1333-1342
(Cited 43 times as of 1/13/2023)
162. Theodorou IG, Ruenraroengsak P, Gow A, Schwander S, **Zhang JJ**, Chung KF, Tetley TD, Ryan MP, Porter AE. Effect of pulmonary surfactant on the dissolution, stability and uptake of zinc oxide nanowires by human respiratory epithelial cells. *Nanotoxicology*. 2016 Jul 21:1-37. [Epub ahead of print]

(Cited 41 times as of 1/13/2023)

163. Seiffert J, Buckley A, Leo B, Martin NG, Zhu J, Dai R, Hussain F, Guo C, Warren J, Hodgson A, Gong J, Ryan MP, **Zhang JJ**, Porter A, Tetley TD, Gow A, Smith R, Chung KF. Pulmonary effects of inhalation of spark-generated silver nanoparticles in Brown-Norway and Sprague-Dawley rats. *Respiratory Research*. 2016;17(1):85.
(Cited 41 times as of 1/13/2023)
164. Feng L, Ouyang F, Liu L, Wang X, Li Y, Murtha A, Shen H, Zhang J, **Zhang JJ**. Levels of urinary metabolites of organophosphate flame retardants, TDCIPP and TPHP, in pregnant women in Shanghai. *Journal of Environmental and Public Healt*h. 2016, doi: 10.1155/2016/9416054.
(Cited 49 times as of 1/13/2023)
165. Sweeney S, Hu S, Ruenraroengsak P, Chen S,Gow A, Schwander S, **Zhang JJ**, Chung KF, Ryan MP, Porter A, Shaffer MS, Tetley T. Carboxylation of multiwalled carbon nanotubes reduces their toxicity in primary human alveolar macrophages. *Environmental Science Nano*, 2016, 3: 1340-1350.
(Cited 29 times as of 1/13/2023)
166. Calderon L, Han T, McGilvery CM, Yang L, Subramaniam P, Lee K, Schwander S, Tetley TS, Georgopoulos P, Ryan M, Porter AE, Smith R, Chung KF, Lioy PJ, **Zhang J**, Mainelis G. Release of airborne particles and Ag and Zn compounds from nanotechnology-enabled consumer sprays: Implications for inhalation exposure*. Atmospheric Environment.* 2017,155: 85-96.
(Cited 20 times as of 1/13/2023)
167. Chung KF, Seiffert J, Chen S, Theodorou I, Goode A, Leo BF, McGilvery C, Hussain F, Wiegman C, Rossios C, Zhu J, Gong J, Tariq F, Yufit V, Monteith A, Hashimoto T, Skepper J, Ryan M, **Zhang J**, Tetley T, Porter A. Inactivation, clearance, and functional effects of lung-instilled short and long silver nanowires in rats. *ACS Nano.* 2017, 11: 2652-2664.
(Cited 29 times as of 1/13/2023)
168. Bhatti P, Mirick DK, Randolph TW, Gong J, Buchanan DT, **Zhang JJ**, Davis Sl. Oxidative DNA damage during night shift work. *Occupational & Environmental Medicine*, 2017, 74: 680-683
(Cited 42 times as of 1/13/2023)
169. Day DB, Xiang J, Mo J, Li F, Chung M, Gong J, Weschler CJ, Ohman-Strickland PA, Sundell J, Weng W, Zhang Y, **Zhang JJ**. Association of Ozone Exposure with Cardiorespiratory Pathophysiologic Mechanisms in Healthy Adults *JAMA Internal Medicine*, 2017, 177: 1344-1353.
(Cited 162 times as of 1/13/2023)
170. Sinharay R, Gong J, Barratt B, Ohman-Strickland P, Ernst S, Kelly F, **Zhang JJ**, Collins P, Cullinan P, Chung KF. Respiratory and cardiovascular responses to walking down a traffic-polluted road compared with walking in a traffic-free area in participants aged 60 years and older with chronic lung and heart disease and age-matched healthy controls: a randomized, crossover study. *The Lancet*, 2017, online December 5, http://dx.doi.org/10.1016/S0140-6736(17)32643-0
(Cited 308 times as of 1/13/2023)
171. Day DB, Xiang J, Mo J, Clyde M, Weschler CJ, Li F, Gong J, Chung M, Zhang Y, **Zhang J**. Combined use of an electrostatic precipitator and a HEPA filter in building ventilation systems: Effects on cardiorespiratory heath indicators in healthy adults. *Indoor Air*, 2018, 28: 360-372.
(Cited 5 times as of 1/13/2023)
172. Zhang X, Zhao Y, Song J, Yang X, **Zhang JJ**, Zhang Y, Li R. Differential health effects of constant versus intermittent exposure to formaldehyde in mice: Implications for building ventilation strategies. *Environmental Science & Technology,* 2018, 52:1551-1560.
(Cited 27 times as of 1/13/2023)
173. Schechter J, Fuemmeler BF, Hoyo C, Murphy SK, **Zhang JJ**, Kollins S. Impact of smoking ban on passive smoke exposure in pregnant nonsmokers in the southeastern United States. *International Journal of Environmental Research and Public Health,* 2018, 15(1), 83; doi:10.3390/ijerph15010083.

(Cited 17 times as of 1/13/2023)

174. Zhang Y, Johnson K, Norris C, Shafer MM, Bergin MH, Zhang y, **Zhang J**, Schauer J. The influence of air cleaners on indoor particulate matter components and oxidative potential in residential households in Beijing. *Science of the Total Environment,* 2018, 626:507-518
(Cited 47 times as of 1/13/2023)
175. Cui X, Li F, Xiang J, Fang L, Chung MK, Day DB, Mo J, Weschler CJ, Gong J, He L, Zhu D, Lu C, Han H, Zhang Y, **Zhang JJ**. Cardiopulmonary effects of overnight indoor air filtration in healthy nonsmoking adults: A double-blind randomized crossover study. *Environment International,* 2018, 114:27-36.
(Cited 79 times as of 1/13/2023)
176. Botelho D, Leo BF, Massa C, Sarkar S, Tetley T, Chung KF, Chen S, Ryan MP, Porter A, **Zhang J**, Atochina-Vasserman E, Schwander S, Gow AJ. Exposure to silver nanospheres leads to altered respiratory mechanics & delayed response in an in vivo murine model. *Frontiers in Pharmacology (Section Integrative and Regenerative Pharmacology),* 2018, 9: 213.
(Cited 13 times as of 1/13/2023)
177. Wheelock K, **Zhang J**, McConnell R, Tang D, Volk HE, Wang Y, Herbstman JB, Wang S, Phillips DH, Camann D, Gong J, Perera F. A novel method for source-specific hemoglobin adducts of nitro-polycyclic aromatic hydrocarbons. *Environmental Science: Processes and Impacts,* 2018, DOI: 10.1039/c7em00522a
(Cited 5 times as of 1/13/2023)
178. Wei J, **Zhang JJ**, Ji JS. Association of environmental exposure to heavy metals and eczema in US population: Analysis of blood cadmium, lead, and mercury. *Archives of Environmental and Occupational Health* 2018, 20: 1-13. doi: 10.1080/19338244.2018.1467874
(Cited 4 times as of 1/13/2023)
179. Grady ST, Koutrakis P, Hart JE, Coull BA, Schwartz J, Laden F, **Zhang JJ**, Gong J, Garshick E. Indoor black carbon of outdoor origin and oxidative stress biomarkers in patients with chronic obstructive pulmonary disease. *Environmental International,* 2018, 115: 188-195.
(Cited 24 times as of 1/13/2023)
180. Maciejczyk P, Jin L, Hwang J-S, Guo X, Zhang M, Thurston G, Qu Q, **Zhang J**, Sun Q, Chen L. Association of cardiovascular responses in mice with source-apportioned PM2.5 air pollution in Beijing. *Aerosol and Air Quality Research,* 2018, DOI: 10.4209/aaqr.2017.11.0504.
(Cited 8 times as of 1/13/2023)
181. Dozmorov MG, Bilbo SD, Rollins SH, Zucker N, Do EK, Schechter JC, **Zhang JJ**, Murphy S, Hoyo C, Fuemmeler BF. Associations between maternal cytokine levels during gestation and measures of child cognitive abilities and executive function. *Brain, Behavior, and Immunity,* 2018, 70: 390-397.
(Cited 28 times as of 1/13/2023)
182. Lasat MM, Chung KF, Lead J, McGrath S, Owen RJ, Rocks S, Unrine J, **Zhang J**. Advancing the understanding of environmental transformations, bioavailability and effects of nanomaterials, an International US Environmental Protection Agency – UK Environmental Nanoscience Initiative joint program. *Journal of Environmental Protection, 2018, 9 (4): ,* DOI: 10.4236/jep.2018.94025.
(Cited 5 times as of 1/13/2023)
183. Jia J, Bi C, **Zhang J**, Jin X, Chen Z. Characterization of polycyclic aromatic hydrocarbons (PAHs) in vegetables near industrial areas of Shanghai, China: Sources, exposure, and cancer risk. *Environmental Pollution,* 2018, 241: 750-758.
(Cited 65 times as of 1/13/2023)
184. Gao L, Liu X, Millstein J, Siegmund KD, Dubeau L, Maguire RL, **Zhang JJ**, Fuemmeler BF, Kollins SH, Hoyo C, Murphy S, Breton CV. Self-reported prenatal tobacco smoke exposure, AXL gene-body methylation, and childhood asthma phenotypes. *Clinical Epigenetics,* 2018, 10: 98. https://doi.org/10.1186/s13148-018-0532-x
(Cited 16 times as of 1/13/2023)

185. Day BD, Clyde MA, Xiang J, Li F, Cui X, Mo J, Gong J, Weschler CJ, Zhang Y, **Zhang JJ**. Age modification of ozone associations with cardiovascular disease risk in adults: a potential role for soluble P-selectin and blood pressure. *Journal of Thoracic Disease,* 2018, 10: 4643-4652.
(Cited 5 times as of 1/13/2023)
186. He L, Liu X, **Zhang JJ**. Simultaneous quantification of urinary 6-sulfatoxymelatonin and 8-hydroxy-2'-deoxyguanosine using liquid chromatography-tandem mass spectrometry. *Chromatography B,* 2018, 1095:119-126.
(Cited 15 times as of 1/13/2023)
187. Cui X, Gong J, Han H, He L, Teng Y, Tetley T, Sinharay R, Chung KF, Islam T, Gilliland F, Grady S, Garshick E, Li Z, **Zhang JJ**. Relationship between free and total malondialdehyde, a well-established marker of oxidative stress, in various types of human biospecimens. *Journal of Thoracic Disease,* 2018, 10: 3088-3097.
(Cited 65 times as of 1/13/2023)
188. Shi S, **Zhang JJ**, Zhao B. Impacts of residential air cleaning interventions on cancer risks associated with indoor semi-volatile organic compounds. *The Lancet Planetary Health*, 2018, DOI: https://doi.org/10.1016/S2542-5196(18)30236-5.
(Cited 16 times as of 1/13/2023)
189. Fang Z, Huang C, **Zhang JJ**, Xie J, Dai S, Ge E, Xiang J, Yao H, Huang R, Bi X, Wang B, Zhong N, Lai K. Traffic-related air pollution induces non-allergic eosinophilic airway inflammation and cough hypersensitivity in guinea pigs. *Clinical & Experimental Allergy*, 2018, DOI: 10.1111/cea.13308
(Cited 28 times as of 1/13/2023)
190. Huang H, Liu S, Cui X, **Zhang J**, Wu H. Factors associated with quality of life among married women in rural China: a cross-sectional study. *Quality of Life Research*, 2018, https://doi.org/10.1007/s11136-018-1944-y.
(Cited 19 times as of 1/13/2023)
191. Schechter J, do EK, **Zhang JJ**, Hoyo C, Murphy SK, Kollins SH, Fuemmeler B. Effect of prenatal smoke exposure on birth weight: The moderating role of maternal depressive symptoms. *Nicotine & Tobacco Research*, 2018, DOI: 10.1093/ntr/nty267.
(Cited 9 times as of 1/13/2023)
192. Li F, Xu M, Wang M, Wang L, Wang L, Zhang H, Chen Y, Gong J, **Zhang, J**, Adcock IM, Chung KF, Zhou X. Roles of mitochondrial ROS and NLRP3 inflammasome in multiple ozone-induced lung inflammation and emphysema. *Respiratory Research*, 2018, 19:230-. doi: 10.1186/s12931-018-0931-8
(Cited 76 times as of 1/13/2023)
193. Li M, **Zhang J**, Patino-Echeverri D. Policies to promote energy efficiency and air emissions reductions in China's electric power generation sector during the 11th and 12th five-year plan periods: Achievements, remaining challenges, and opportunities. *Energy Policy*, 2019, 125:429-444.
(Cited 69 times as of 1/13/2023)
194. Fu X, Zhu X, Jiang Y, **Zhang JJ**, Wang T, Jia C. Centralized outdoor measurements of fine particulate matter as a surrogate of personal exposure to homogeneous populations. *Atmospheric Environment*, 2019, doi: 10.1016/j.atmosenv 2019.02.021
(Cited 15 times as of 1/13/2023)
195. Xiang J, Weschler CJ, Wang Q, Zhang L, Mo J, Ma R, **Zhang JJ**, Zhang Y. Reducing indoor levels of "outdoor PM2.5" in urban China: Impact on mortalities. *Environmental Science & Technology*, 2019, 53: 3119-3127.
(Cited 65 times as of 1/13/2023)
196. Bard RL, Ijaz MK, **Zhang JJ,** Li y, Bai C, Yang Y, Garcia WD, Creek J, Brook RD. Interventions to reduce personal exposure to air pollution: a primer for health care providers. *Global Heart*, 2019, 14: 47-60. doi: 10.1016/j.gheart.2019.02.001
(Cited 21 times as of 1/13/2023)

197. Jia J, Bi C, **Zhang JJ**, Chen Z. Atmospheric deposition and vegetable uptake of polycyclic aromatic hydrocarbons (PAHs) based on experimental and computational simulations. *Atmospheric Environment*, 2019, 204: 135-141.
(Cited 26 times as of 1/13/2023)
198. Breton CV, Song AY, Xiao J, Kim S, Mehta HH, Wan J, Yen K, Sioutas C, Lurmann F, Xue S, Morgan TE, **Zhang J**, Cohen P. Effects of air pollution in mitochondrial function, mitochondrial DNA methylation, and mitochondrial peptide expression. *Mitochondrion*, 2019, 46: 22-29.
(Cited 59 times as of 1/13/2023)
199. Torres M, Carranza C, Sarkar S, Gonzalez Y, Vargas AO, Black K, Meng Q, Quintana-Belmares R, Hernandez M, Garcia J, Paremo-Figueroa V, Iniguez M, Flores JL, **Zhang JJ**, Gardner CR, Ohman-Strickland P, Schwander S. Urban airborne particle exposure impairs human lung and blood mycobacterium tuberculosis immunity. *Thorax*, 2019, accepted Feb
(Cited 31 times as of 1/13/2023)
200. **Zhang JJ**, Adcock IM, Bao Z, Chung KF, Duan X, Fang Z, Gong J, Li F, Miller RK, Qiu X, Rich DQ, Wang B, Wei Y, Xu D, Xue T, Zhang Y, Zheng M, Zhu T. Health effects pf air pollution: what we need to know and to do in the next decade. *Journal of Thoracic Disease*, 2019, doi: 10.21037/jtd.2019.03.65.
(Cited 13 times as of 1/13/2023)
201. Adetona AM, Martin WK, Warren SH, Hanley NM, Adetona O, **Zhang JJ**, Simpson C, Paulsen M, Rathbun S, Wang J, DeMarini D, Naeher LP. Urinary mutagenicity and other biomarkers of occupational smoke exposure of wildland firefighters and oxidative stress. *Inhalation Toxicology*, 2019, doi: 10.1080/08958378.2019.1600079.
(Cited 27 times as of 1/13/2023)
202. Gong J, Zhu T, Hu M, Wu Z, **Zhang JJ**. Different metrics (number, surface area, and volume concentrations) of urban particles with varying sizes in relation to fractional exhaled nitric oxide (FeNO). *Journal of Thoracic Disease*, 2019, doi: 10.21037/jtd.2019.03.90
(Cited 12 times as of 1/13/2023)
203. Huang, H, Liu L, Yang S, Cui X, **Zhang J**, Wu H. Effects of job conditions, occupational stress and emotional intelligence on chronic fatigue among Chinese nurses: A cross-sectional study. *Psychology Research and Behavior Management*, 2019, 12: 351-360.
(Cited 62 times as of 1/13/2023)
204. Xiang J, Weschler CJ, **Zhang JJ,** Zhang L, Sun Z, Duan X, Zhang Y. Ozone in urban China: Impact on mortalities and approaches for establishing indoor guideline concentrations. *Indoor Air*, 2019, doi: 10.1111/ina.12565
(Cited 24 times as of 1/13/2023)
205. Norris C, Fang L, Barkjohn KK, Carlson D, Zhang Y, Mo J, Li Z, **Zhang J,** Cui X, Schauer JJ, Davis A, Black M, Bergin MH. Sources of volatile organic compounds in suburban homes in Shanghai, China, and the impact of air filtration on compound concentrations. *Chemosphere*, 2019, 231: 256-268.
(Cited 35 times as of 1/13/2023)
206. Xu M, Wang L, Wang M, Wang H, Zhang H, Chen Y, Wang X, Gong J, **Zhang JJ,** Adcok IM, Chung KF**,** Li F. Mitochondrial ROS and NLRP3 inflammasome in acute ozone-induced murine model of airway inflammation and bronchial hyperresponsiveness. *Free Radical Research*, 2019, DOI: 10.1080/10715762.2019.1630735.
(Cited 53 times as of 1/13/2023)
207. Li X, Chen Q, Zheng X, Li Y, Han M, Liu T, Xiao J, Guo L, Zeng W, **Zhang J**, Ma WJ. Effects of ambient ozone concentrations with different averaging times on asthma exacerbations: A meta-analysis. *Science of the Total Environment*, 2019, DOI: 10.1016/j.scitotenv.2019.06.382.
(Cited 29 times as of 1/13/2023)

208. Sarkar SR, Rivas-Santiago C, Ibironke OA, Carranza C, Meng Q, Osornio-Vargas A, **Zhang J,** Torres M, Chow JC, Watson JG, Ohman-Strickland P, Schwander S. Season and Size of Urban Particulate Matter Differentially affect Cytotoxicity and Human Immune Responses to Mycobacterium *tuberculosis*. *PLOS ONE*, 2019, 14(7): e0219122.
(Cited 25 times as of 1/13/2023)
209. Li Y, Bonner MR, Browne RW, Deng F, Tian L, **Zhang JJ**, Swanson M, Riitenhouse-Olson K, Farhat Z, Mu L. Response of serum chemokines to dramatic changes of air pollution levels, a panel study. *Biomarkers*. 2019. https://doi.org/10.1080/1354750X.2019.1658803.
(Cited 3 times as of 1/13/2023)
210. Brehmer C, Norris C, Barkjohn KK, Bergin MH, **Zhang J**, Cui X, Zhang Y, Black M, Li Z, Shafer M, Schauer JJ. The impact of household air cleaners on the chemical composition and children's exposure to $PM_{2.5}$ metal sources in suburban Shanghai. *Environmental Pollution*, 2019, 253: 190-198.
(Cited 33 times as of 1/13/2023)
211. He L, Cui X, Xia Q, Li F, Mo J, Gong J, Zhang Y, Zhang JJ. Effects of personal air pollutant exposure on oxidative stress: Potential confounding by natural variation in melatonin levels. *International Journal of Hygiene and Environmental Health*. 2019, https://doi.org/10.1016/j.ijheh.2019.09.012.
(Cited 19 times as of 1/13/2023)
212. **Zhang JJ**, Wei Y, Fang Z. Ozone pollution: A major health hazard worldwide. *Frontiers in Immunology*. 2019, https://doi.org/10.3389/fimmu.2019.02518.
(cited 254 times as of 1/13/2023)
213. Brehmer C, Norris C, Barkjohn KK, Bergin MH, **Zhang J**, Cui X, Teng Y, Zhang Y, Black M, Li Z, Shafer M, Schauer JJ. The impact of household air cleaners on the oxidative potential of $PM_{2.5}$ and the role of metals and sources associated with indoor and outdoor exposure. *Environmental Research*, 2020, 181: 108919. https://doi.org/10.1016/j.envres.2019.108919.
(cited 34 times as of 1/13/2023)
214. Li X, Xiao J, Huang M, Liu T, Guo L, Zeng W, Chen Q, **Zhang J**, Ma W. Associations of county-level cumulative environmental quality with mortality of chronic obstructive pulmonary disease and mortality of tracheal, bronchus and lung cancers. *Science of the Total Environment*, 2019, DOI: 10.1016/j.scitotenv.2019.135523.
(Cited 1 times as of 1/13/2023)
215. Liu M, Barkjohn KK, Norris C, Schauer JJ, **Zhang J**, Zhang Y, Hu M, Bergin M. Using low-cost sensors to monitor indoor, outdoor, and personal ozone concentrations in Beijing, China. *Environmental Science: Processes & Impacts*. 2019, DOI: 10.1039/c9em00377k.
(cited 20 times as of 1/13/2023).
216. Wang Z, Zhao L, Huang A, Yu C, Xiao Q, Zou B, Ji S, Zhang L, Zou K, Ning Y, **Zhang J**, Jia P. Traffic-related environmental factors and childhood obesity: A systematic review and meta-analysis. *Obesity Reviews*, 2019. DOI: 10.1111/obr.12995.
(Cited 36 times as of 1/13/2023)
217. Huang S, Koutrakis P, Grady ST, Vieira CLZ, Schwartz JD, Coull BA, Hart JE, Laden F, **Zhang JJ**, Garshick E. Effects of particulate matter gamma radiation on oxidative stress biomarkers in COPD patients. *Journal of Exposure Science & Environmental Epidemiology*. 2021, 31:727-735. https://doi.org/10.1038/s41370-020-0204-8.
(Cited 4 times as of 1/13/2023)

218. Chatzidiakou L, Krause A, Han Y, Chen W, Yan L, Popoola OAM, Kellaway M, Wu Y, Liu J, Hu M, Barratt B, Cai Y, Chan Q, Chen S, Chen W, Chen X, Elliott P, Ezzati M, Fan Y, Han X, Hu M, Jin A, Jones RL, Kelly FJ, Krause A, Li Y, Liang P, Liu J, Luo Y, Qiu X, Wang Q, Wang T, Wang Y, Wu Y, Xie G, Xie W, Xue T, Yan L, Zhang H, **Zhang J**, Zhao M, Zhu T, Zhu Y, Barratt B, Kelly FJ, Zhu T, Jones RL. Using low-cost sensor technologies and advanced computational methods to improve dose estimations in healthy panel studies; results of the AIRLESS project. *Journal of Exposure Science & Environmental Epidemiology.* 2020, https://doi.org/10.1038/s41370-020-0259-6.
(cited 13 times as of 1/13/2023).
219. Li W, Liu Q, Chen Y, Yang B, Huang X, Li Y, **Zhang JJ.** Effects of indoor environment and lifestyle on respiratory health of children in Chongqing, China. *Journal of Thoracic Disease,* 2020, 12: 6327-6341. http://dx.doi.org/10.21037/jtd.2020.03.102.
(cited 11 times as of 1/13/2023)
220. Lin J, Lin W, Yin Z, Fu X, Mai D, Fu S, **Zhang JJ**, Gong J, Feng N, He L. Respiratory health effects of residential individual and cumulative risk factors in children living in two cities of the Pearl River Delta Region, China. *Journal of Thoracic Disease*, 2020. doi: 10.21037/jtd.2020.03.92.
(Cited 3 times as of 1/13/2023)
221. Cui X, Li Z, Teng Y, Barkjohn KK, Norris C, Fang L, Daniel G, He L, Lin L, Wang Q, Day DB, Zhou X, Hong J, Gong J, Li F, Mo J, Zhang Y, Schauer JJ, Black MS, Bergin MH, **Zhang JJ**. Impacts of bedroom particulate filtration on airway pathophysiology in children with asthma. *JAMA Pediatrics*, 2020, 174: 533-542.
(Cited 45 times as of 1/13/2023)
222. Yin Z, Huang X, He L, Cao S, **Zhang J**. Trends in ambient air pollution levels and $PM_{2.5}$ chemical compositions in four Chinese cities from 1995 to 2017. *Journal of Thoracic Disease*, 2020. doi: 10.21037/jtd-19-crh-aq-004.
(Cited 21 times as of 1/13/2023)
223. Barkjohn KK, Bergin MH, Norris C, Schauer JJ, Zhang Y, Balck M, Hu M, **Zhang J**. Using low-cost sensors to quantify the effects of air filtration on indoor and personal exposure relevant PM2.5 concentrations in Beijing, China. *Aerosol and Air Quality Research, 2020, 20:297-313.*
(Cited 38 times as of 1/13/2023)
224. Drizik E, Corbett S, Zheng Y, Vermeulen R, Dai Y, Hu W, Ren D. Duan H, Niu Y, Xu J, Fu W, Meliefste K, Zhou B, Zhang X, Yang J, Bassig B, Liu H, Ye M, Liu G, Jia X, Meng T, Bin P, **Zhang J**, Silverman D, Spira A, Rothman N, Lenburg ME, Lan Q. Transcriptomic changes in the nasal epithelium associated with diesel engine exhaust exposure. *Environment International*, 2020, 137: 105506. https://doi.org/10.1016/j.envint.2020.105506.
(Cited 10 times as of 1/13/2023)
225. Hu B, Xu X, **Zhang J,** Wang T, Meng W, Wang D. Diurnal variations of greenhouse gases emissions from reclamation mariculture ponds. *Estuarine, Coastal and Shelf Science.* 2020, DOI:10.1016/j.ecss.2020.106677.
(Cited 8 times as of 1/13/2023)
226. Hu X, He L, **Zhang J**, Qiu X, Zhang Y, Mo J, Day DB, Xiang J, Gong J. Inflammatory and oxidative stress responses of healthy adults to changes in personal air pollutant exposure. *Environmental Pollution.* 2020, 263A: 114503.
(Cited 24 times as of 1/13/2023)
227. He L, Li Z, Teng Y, Cui X, Barkjohn KK, Norris C, Fang L, Lin L, Wang Q, Zhou X, Hong J, Li F, Zhang y, Schauer JJ, Black M, Bergin MH, **Zhang JJ**. Associations of personal exposure to air pollutants with airway mechanics in children with asthma. *Environmental International*. 2020. https://doi.org/10.1016/j.envint.2020.105647.
(cited 26 times as of 1/13/2023)

228. Barkjohn KK, Cui X, Fang L, Zheng T, Schauer JJ, Li Z, Zhang Y, Black M, **Zhang JJ**, Bergin MH. Real-time measurements of $PM_{2.5}$ and ozone to assess the effectiveness of residential indoor air filtration in Shanghai homes. *Indoor Air,* 2020, https://doi.org/10.1111/ina.12716.
(cited 25 times as of 1/13/2023)
229. Guo Q, Xue T, Jia C, Wang B, Cao S, Zhao X, Zhang Q, Zhao L, **Zhang J**, Duan X. Association between long-term exposure to fine particulate matter and obesity in children: A national representative cross-sectional study in China. *Environment International,* 2020, https://doi.org/10.1016/j.envint.2020.105950.
(Cited 24 times as of 1/13/2023)
230. Liu W, Huang J, Lin Y, Cai C, Zhao Y, Teng Y, Xue L, Liu L, Guo X, Zhang Y, **Zhang JJ**. Negative ions offset cardiorespiratory benefits of $PM_{2.5}$ reduction from residential use of negative ion air purifiers. *Indoor Air,* 2020, DOI: 10.1111/ina.12728.
(cited 38 times as of 1/13/2023)
231. Zhou H, Lin Y, Zhao W, Teng Y, Cui Y, Wang T, Li C, Jiang Y-H, Zhang J. Wang Y. The Role of Hipk2-p53 Pathways in Arsenic-Induced Autistic Behaviors: A Translational Study from Rats to Humans. *Environmental Pollution,* 2020, https://doi.org/10.1016/j.envpol.2020.115568.
(Cited 2 times as of 1/13/2023)
232. He L, Hu X, Gong J, Day D, Xiang J, Mo J, Zhang Y, **Zhang JJ**. Endogenous melatonin mediation of systemic inflammatory responses to ozone exposure in healthy adults. *Science of The Total Environment,* 2020, https://doi.org/10.1016/j.scitotenv.2020.141301.
(Cited 12 times as of 1/13/2023)
233. He L, Cui X, Li Z, Teng Y, Barkjohn KK, Norris C, Fang L, Lin L, Wang Q, Zhou X, Hong J, Li F, Zhang Y, Schauer JJ, Black M, Bergin MH, **Zhang JJ**. Malondialdehyde in nasal fluid: A biomarker for monitoring asthma control in relation to air pollution exposure. *Environmental Science & Technology*. 2020. 54: 11405-11413. https://doi.org/10.1021/acs.est.0c02558.
(Cited 21 times as of 1/13/2023)
234. Barkjohn KK, Norris C, Cui X, Fang L, He L, Schauer JJ, Zhang Y, Black M, **Zhang J**, Bergin MH. Children's microenvironmental exposure to $PM_{2.5}$ and ozone and the impact of indoor air filtration. *Journal of Exposure Science and Environmental Epidemiology,* 2020, https://www.nature.com/articles/s41370-020-00266-5.
(Cited 11 times as of 1/13/2023)
235. He L, Lin Y, Wang X, Liu X, Wang Y, Qin J, Wang X, Day D, Xiang J, Mo J, Zhang Y, **Zhang JJ**. Associations of ozone exposure with urinary metabolites of arachidonic acid. *Environment International,* 2020, 145: https://doi.org/10.1016/j.envint.2020.106154.
(Cited 13 times as of 1/13/2023)
236. Yao Y, Jin X, Cao K, Zhao M, Zhu T, **Zhang JJ,** Yi Z. Residential proximity to major roadways and cognitive function among Chinese adults 65 years and older. *Science of The Total Environment,* 2020: https://doi.org/10.1016/j.scitotenv.2020.142607.
(Cite 19 times as of 1/13/2023)
237. Yao Y, Jin X, Cao K, Zhang K, Zhu T, Yue D, Zhang H, **Zhang J,** Jin X**,** Zeng Y. Residential proximity to major roadways and prevalent hypertension among older women and men: Results from the Chinese Longitudinal Healthy Longevity Survey. *Frontiers in Cardiovascular Medicine,* 2020: DOI: 10.3389/fcvm.2020.587222.
(Cited 3 times as of 1/13/2023)
238. Han Y, Chen W, Chatzidiakou L, Yan L, Zhang H, Chan Q, Barratt B, Jones R, Liu J, Wu Y, Zhao M, **Zhang J**, Kelly F, Zhu T. Effects of AIR pollution on cardiopulmonary disEaSe in urban and peri-urban reSidents in Beijing: protocol for the AIRLESS study. *Atmospheric Chemistry and Physics,* 2020. https://doi.org/10.5194/acp-2020-208.
(Cited 14 times as of 1/13/2023)

239. Michaeloudes C, Seiffert J, Chen S, Ruenraroengsak P, Bey L, Theodorou IG, Ryan M, Cui X, **Zhang J**, Shaffer M, Tetley T, Porter AE, Chung KF. Effects of silver nanospheres and nanowires on human airway smooth muscle cells: role of sulfidation. *Nanoscale Advances,* 2020, 2: 5635-5647. https://doi.org/10.1039/d0na00745e.
(Cited 5 times as of 1/13/2023)
240. **Zhang JJ,** Kan H, Kipen KM. Respiratory health, children's lung function, and air quality in four Chinese cities: two snapshots in 1993-1996 and 2017-2018. *Journal of Thoracic Disease,* 2020, 12: 6311-6314. http://dx.doi.org/10.21037/jtd-19-crh-aq-preface.
(Cited 3 times as of 1/13/2023)
241. Yan M, Gong J, Li Q, Li W, Duan X, Cao S, Li S, He L, Yin Z, Lin W, **Zhang JJ.** Prevalence of respiratory diseases in relation to smoking rate in adults living in four Chinese cities: a comparison between 2017-2018 and 1993-1996. *Journal of Thoracic Disease,* 2020, 12: 6315-6326. http://dx.doi.org/10.21037/jtd-19-crh-aq-002.
(Cited 3 times as of 1/13/2023)
242. Li Y, Huang X, Liu Q, Li W, Yang B, Chen Y, Lin W, **Zhang JJ.** Changes in children's respiratory morbidity and residential exposure factors over 25 years in Chongqing, China. *Journal of Thoracic Disease,* 2020, 12: 6356-6364. http://dx.doi.org/10.21037/jtd-19-crh-aq-005.
(Cited 3 times as of 1/13/2023)
243. Cao S, Wen D, Li S, Duan X, Zhang Y, Gong J, Guo Q, Xu X, Qin N, Meng X, **Zhang JJ.** Changes in children's asthma prevalence over two decades in Lanzhou: effects of socioeconomic, parental and household factors. *Journal of Thoracic Disease,* 2020, 12: 6365-6378. http://dx.doi.org/10.21037/jtd-19-crh-aq-008.
(Cited 8 times as of 1/13/2023)
244. Li S, Cao S, Duan X, Zhang Y, Gong J, Xu X, Guo Q, Meng X, Bertrand, **Zhang JJ.** Long-term exposure to PM2.5 and children's lung function: a dose-based association analysis. *Journal of Thoracic Disease,* 2020, 12: 6379-6395. http://dx.doi.org/10.21037/jtd-19-crh-aq-007.
(Cited 10 times as of 1/13/2023)
245. Newman JD, Bhatt DL, Rajagopalan S, Balmes JR, Brauer M, Breysse PN, Brown AGM, Carnethon MR, Cascio WE, Collman GW, Fine LJ, Hansel NN, Hernandez A, Hochman JS, Jerrett M, Joubert BR, Kaufman JD, Malik AO, Mensah GA, Newby D, Peel J, Siegel J, Siscovick D, Thompson BL, **Zhang J**, Book RD. Cardiopulmonary impact of particulate air pollution in high-risk populations: JACC state-of-the-art review**.** *Journal of the American College of Cardiology,* 2020, 76:2874-2894.
(Cited 39 times as of 1/13/2023)
246. Benowitz NL, St. Helen G, Nardone N, Addo N, **Zhang JJ**. Harvanko AM, Calfee CS, Jacob III P. Twenty-four-hour cardiovascular effects of electronic cigarettes compared to cigarette smoking in dual users. *Journal of the American Heart Association,* 2020, https://www.ahajournals.org/doi/10.1161/JAHA.120.017317.
(cited 10 times as of 1/13/2023)
247. Ksinan AJ, Sheng Y, Do EK, Schechter JC, **Zhang JJ,** Maguire RL, Hoyo C, Murphy SK, Kollins SH, Rubin B, Fuemmeler BF. Identifying the best questions for rapid screening of secondhand smoke exposure among children. *Nicotine & Tobacco Research*. 2020. https://doi.org/10.1093/ntr/ntaa254.
(Cited 2 times as of 1/13/2023)
248. Xiang J, Seto E, Mo J, **Zhang JJ**, Zhang Y. Impacts of implementing healthy building guidelines for daily PM2.5 limit on premature deaths and economic losses in urban China: A population-based modeling study. *Environmental International*. 2020. https://doi.org/10.1016/j.envint.2020.106342.
(Cited 14 times as of 1/13/2023)
249. Lin Y, Gao X, Qiu X, Liu J, Tseng C, **Zhang JJ**, Araujo JA, Zhu Y. Urinary carboxylic acid metabolites as possible novel biomarkers of exposure to alkylated polycyclic aromatic hydrocarbons. *Environmental International*. 2021, 147: 106325. https://doi.org/10.1016/j.envint.2020.106325.
(Cited 8 times as of 1/13/2023)

250. He L, Norris C, Cui X, Li Z, Barkjohn KK, Brehmer C, Teng Y, Fang L, Lin L, Wang Q, Zhou X, Hong J, Li F, Zhang Y, Schauer JJ, Black M, Bergin MH, **Zhang JJ**. Personal exposure to PM2.5 oxidative potential in association with pulmonary pathophysiologic outcomes in children with asthma. *Environmental Science & Technology*. 2021. https://doi.org/10.1021/acs.est.0c06114.
(Cited 19 times as of 1/13/2023)
251. Cao S, Guo Q, Xue T, Wang B, Wang L, Duan X, **Zhang JJ**. Long-term exposure to ambient $PM_{2.5}$ increases obesity risk in Chinese adults: A cross-sectional study based on a nationwide survey in China. *Science of the Total Environment*. 2021, 778: 145812. https://doi.org/10.1016/j.scitotenv.2021.145812.
(Cited 12 times as of 1/13/2023)
252. He L, Norris C, Cui X, Li Z, Barkjohn KK, Teng Y, Fang L, Lin L, Wang Q, Zhou X, Hong J, Li F, Zhang Y, Schauer JJ, Black M, Bergin MH, **Zhang JJ**. Role of melatonin in pathophysiologic and oxidative stress responses to personal air pollutant exposures in asthmatic children. *Science of the Total Environment*. 2021. https://doi.org/10.1016/j.scitotenv.2021.145709.
(Cited 8 times as of 1/13/2023)
253. Fang Z, Yi F, Peng Y, **Zhang JJ**, Zhang L, Deng Z, Chen F, Li C, He Y, Huang C, Zhang Q, Lai K, Xie J. Inhibition of TRPA1 reduces airway inflammation and hyper-responsiveness in mice with allergic rhinitis. *The FASEB Journal,* 2021, 35: e21428.
(Cited 3 times as of 1/13/2023)
254. He L, Lin Y, Day D, Teng Y, Wang X, Liu X, Yan E, Gong J, Qin J, Wang X, Xiang J, Mo J, Zhang Y, **Zhang JJ**. Nitrated polycyclic aromatic hydrocarbons and arachidonic acid metabolites relevant to cardiovascular pathophysiology: Findings from a panel study in healthy adults. *Environmental Science & Technology*. 2021. https://doi.org/10.1021/acs.est.0c08150.
(Cited 13 times as of 1/13/2023)
255. Lu X, Lin Y, Qiu X, Liu J, Zhu T, Araujo J, **Zhang JJ,** Zhu Y. Metabolic changes after subacute exposure to polycyclic aromatic hydrocarbons: a natural experiment among healthy travelers from Los Angeles to Beijing. *Environmental Science & Technology*. 2021. 55: 5097-5105. https://doi.org/10.1021/acs.est.0c07627.
(Cited 6 times as of 1/13/2023)
256. Fuemmeler BF, Dozmorov MG, Do EK, **Zhang JJ,** Grenier C, Huang Z, Maguire RL, Kollins SH, Hoyo C, Murphy SK. DNA methylation in babies born to non-smoking mothers exposed to secondhand smoke during pregnancy: an epigenome-wide association study. *Environmental Health Perspectives*. 2021. https://doi.org/10.1289/EHP8099.
(Cited 11 times as of 1/13/2023)
257. Fallavollita WL, Do EK, Schechter JC, Kollins SH, **Zhang JJ,** Qin J, Maguire RL, Hoyo C, Murphy SK, Fuemmeler BF. Smoke-free home rules and association with child secondhand smoke exposure. *International Journal of Environmental Research and Public Health.* 2021. 18: 5256. https://doi.org/10.3390/ijerph18105256.
(Cited 1 times as of 1/13/2023)
258. Hu X, Yan M, He L, Qiu X, **Zhang J,** Zhang Y, Mo J, Day DB, Xiang J, Gong J. Associations between time-weighted personal air pollution exposure and amino acid metabolism in healthy adults. *Environment International*. 2021. 156: 106623. https://doi.org/10.1016/j.envint.2021.106623.
(cited 5 times as of 1/13/2023)
259. Lin Y, Wang X, Lenz L, Ndiaye O, Qin J, Wang X, Huang H, Jeuland M, **Zhang J.** Malondialdehyde in dried blood spots: a biomarker of systemic lipid peroxidation linked to cardiopulmonary symptoms and risk factors. *Journal of Thoracic Disease*. 2021; 13: 3731-3740. https://dx.doi.org/10.21037/jtd-21-604.
(Cited 2 times as of 1/13/2023)

260. Yin H, Brauer M, **Zhang JJ,** Cai W, Navrud S, Burnett R, Howard C, Deng Z, Kammen DM, Schellnhuber HJ, Chen K, Kan H, Chen Z, Chen B, Zhang N, Mi Z, Coffman D, Cohen AJ, Guan D, Zhang Q, Gong P, Liu Z. Population ageing and deaths attributable to ambient $PM_{2.5}$ pollution: a global analysis of economic cost. *The Lancet Planetary Health*. 2021, 5: e356-67. https://doi.org/10.1016/S2542-5196(21)00131-5.
(Cited 30 times as of 1/13/2023)
261. Yan M, Gong J, Liu Q, Li W, Duan X, Cao S, Li S, He L, Yi Z, Lin W, **Zhang JJ**. The effects of indoor and outdoor air pollution on the prevalence of adults' respiratory diseases in four Chinese cities: a comparison between 2017-2018 and 1993-1996. *Journal of Thoracic Disease*. 2021. 13: 4560-4573. https://dx. doi.org/10.21037/jtd-20-2121.
(Cited 2 times as of 1/13/2023)
262. Li S, Cao S, Duan X, Zhang Y, Gong J, Xu X, Guo Q, Meng X, Bertrand M, **Zhang JJ**. Children's lung function in relation to changes in socioeconomic, nutritional, and household factors over 20 years in Lanzhou. *Journal of Thoracic Disease*. 2021. 13: 4574-4588. https://dx. doi.org/10.21037/jtd-20-2232.
(Cited 1 times as of 1/13/2023)
263. Meng X, Cao S, Li S, Yan M, Guo Q, Gong J, Liu Q, **Zhang JJ**, Duan X. Household environmental factors and children's respiratory health: comparison of two cross-sectional studies over 25 years in Wuhan, China. *Journal of Thoracic Disease*. 2021. 13: 4589-4600. https://dx. doi.org/10.21037/jtd-20-2170.
(Cited 0 times as of 1/13/2023)
264. Cao S, Wen D, Li S, Guo Q, Duan X, Gong J, Xu X, Meng X, Qin N, Wang B, **Zhang JJ**. Changes in children's lung function over two decades in relation to socioeconomic, parental, and household factors in Wuhan, China. *Journal of Thoracic Disease*. 2021. 13: 4601-4613. https://dx. doi.org/10.21037/jtd-20-158.
(Cited 2 times as of 1/13/2023)
265. Yang Z, Lin Y, Wang S, Liu X, Cullinan P, Chung KF, **Zhang JJ**. Urinary Amino-Polycyclic Aromatic Hydrocarbons in Urban Residents: Finding a Biomarker for Residential Exposure to Diesel Traffic. *Environmental Science & Technology*. 2021. 55: 10569-10577. https://doi.org/10.1021/acs.est.1c01549.
(Cited 2 times as of 1/13/2023)
266. He L, Hu X, Day DB, Yan M, Teng Y, Liu X. Yan E, Xiang J, Qiu X, Mo J, Zhang Y, **Zhang JJ**, Gong J. The associations of nitrated polycyclic aromatic hydrocarbon exposures with plasma glucose and amino acids. *Environmental Pollution.* 2021, https://doi.org/10.1016/j.envpol.2021.117945.
(Cited 2 times as of 1/13/2023)
267. He L, Norris C, Cui X, Li Z, Barkjorn KK, Teng Y, Fang L, Lin L, Wang Q, Zhou X, Hong J, Li F, Zhang Y, Schauer JJ, Black M, Bergin MH, **Zhang JJ.** Oral cavity response to air pollutant exposure and association with pulmonary inflammation and symptoms in asthmatic children. *Environment Research.* 2021. https://doi.org/10.1016/j.envres.2021.112275.
(Cited 1 times as of 1/13/2023)
268. Tang S, Li T, Fang J, Chen R, Cha Y, Wang Y, Zhu M, Zhang Y, Chen Y, Du Y, Yu T, Thompson DC, Pollitt KJG, Vasiliou V, Ji JS, Kan H, **Zhang JJ**, Shi X. The exposome in practice: an exploratory panel study of biomarkers of air pollutant exposure in Chinese people aged 60-69 years (China BAPE Study). *Environmental International*. 2021. 157: 106866.
(Cited 13 times as of 1/13/2023)
269. Lin Y, Wang X, Lenz L, Ndiaye O, Qin J, Wang X, Huang H, Jeuland MA, **Zhang JJ**. Dried blood spot biomarkers of oxidative stress and inflammation associated with blood pressure in rural Senegalese women with incident hypertension. *Antioxidants*. 2021. https://doi.org/10.3390/antiox10122026.
(Cited 1 times as of 1/13/2023)
270. Yao Y, Lv X, Qiu C, Li J, Wu X, Zhang H, Yue D, Liu K, Eshak ES, Lorenz T, Anstey KJ, Livingston G, Xue T, Zhang J, Wang H, Zeng Y. The effect of China's Clean Air Act on cognitive function in older adults: a population-based, quasi-experimental study. *The Lancet Healthy Longevity*. 2022, 3: E98-E108.
(Cited 14 times as of 1/13/2023)

271. Lin Y, Zhang H, Han Y, Qiu X, Jiang X, Cheng Z, Wang Y, Chen X, Fan Y, Li W, **Zhang JJ**, Zhu T. Field evaluation of a potential exposure biomarker of methylated PAHs: Association between urinary phenanthrene-carboxylic acid and personal exposure to 2-methyphenanthrene. *Environmental Science & Technology Letters*. 2022. https://doi.org/10.1021/acs.estlett.1c00938.
(Cited 1 times as of 1/13/2023)
272. Guo Q, Xue T, Wang B, Cao S, Wang L, **Zhang JJ**, Duan X. Effects of physical activity intensity on adulthood obesity as a function of long-term exposure to ambient $PM_{2.5}$: Observations form a Chinese nationwide representative sample. *Science of the Total Environment*. 2022. https://doi.org/10.1016/j.scitotenv.2022.153417.
(Cited 2 times as of 1/13/2023)
273. Shi S, **Zhang JJ**, Gong J, Zhao B. Benefits from disease reduction for Type-2 diabetes and obesity by comprehensive regulatory restrictions on phthalates use in China. *One Earth*. 2022. https://doi.org/10.17632/44zy3tz7ry.1
(Cited 1 times as of 1/13/2023)
274. He L, **Zhang JJ**, Particulate matter (PM) oxidative potential: measurement methods and links to PM physicochemical characteristics and health effects. *Critical Reviews in Environmental Science and Technology*. 2022. https://doi.org/10.1080/10643389.2022.2050148.
(Cited 5 times as of 1/13/2023)
275. Liu L, Yan L, Lv Y, Zhang Y, Li T, Huang C, Kan H, **Zhang J**, Zeng Y, Shi X, Ji JS. Air pollution, residential greenness, and metabolic dysfunction biomarkers: analysis in the China Longitudinal and Healthy Longevity Survey. *BMC Public Health*. 2022, 22: 885-896. https://doi.org/10.1186/s12889-022-13126-8.
(Cited 2 times as of 1/13/2023)
276. Hu K, Li W, Zhang Y, Chen H, Bai C, Yang Z, Lorenz T, Liu K, Kokoro S, Song J, Zhao Q, Zhao Y, **Zhang JJ**, Wei J, Pan J, Qi J, Ye T, Zeng Y, Yao Y. Association between outdoor artificial light at night and sleep duration among older adults in China: A cross-sectional study. *Environmental Research*. 2022, https://doi.org/10.1016/j.evnres.2022.113343.
(Cited 6 times as of 1/13/2023)
277. Li S, Cao S, Duan X, Zhang Y, Gong J, Xu X, Guo Q, Meng X, **Zhang J**. Household mold exposure in association with childhood asthma and allergic rhinitis in a northwestern city and a southern city of China. *Journal of Thoracic Disease*. 2022. https://dx.doi.org/10.21037/jtd-21-1380.
(Cited 1 times as of 1/13/2023)
278. Lin Y, Lu X, Qiu X, Yin F, Faull K, Tsing C, **Zhang J**, Fiehn O, Zhu T, Araujo J, Zhu Y. Arachidonic acid metabolism and inflammatory biomarkerss associated with exposure to polycyclic aromatic hydrocarbons. *Environmental Research*. 2022. 212: 113498. https://doi.org/10.1016/j.envres.2022.113498.
(Cited 3 times as of 1/13/2023)
279. Guo Q, Zhao Y, Zhao J, Qian L, Bian M, Xue T, **Zhang JJ**, Duan X. Identifying the threshold of outddor $PM_{2.5}$ reversing the beneficial association between physical activity and lung function: A national longitudinal study in China. *Science of The Total Environment*. 2022. 839: 156138. https://doi.org/10.1016/j.scitotenv.2022.156138.
(Cited 3 times as of 1/13/2023)
280. Guo Q, Tao X, Wang B, Cao S, Wang L, **Zhang JJ**, Duan X. Interaction between long-term exposure to particulate matter and physical activity, and obesity: Analyis of a Chinese nationwide cross-sectional study. *The Lancet Public Health*. 2022. https://dx.doi.org/10.2139/ssrn.3884945.
(Cited 0 times as of 1/13/2023)

281. Wheeler DC, Boyle J, Barsell J, Maguire RL,, **Zhang J**, Oliver JA, Jones S, Dahman B, Murphy SK, Hoyo C, Baggett CD, McClernon J, Fuemmeler BF. Tobacco retail outlets, neighborhood deprivation and the risk of prenatal smoke exposure. *Nicotine & Tobacco Research.* 2022. https://doi.org/10.1093/ntr/ntac164.
(Cited 1 times as of 1/13/2023)
282. Guo Q, Zhang K, Wang B, Cao S, Xue T, Zhang Q, Tian H, Fu P, **Zhang JJ**, Duan X. Chemical constituents of ambient fine particulate matter and obesity among school-aged children: A representative national study in China. *Science of The Total Environment*. 2022. https://doi.org/10.1016/j.scitotenv.2022.157742.
(Cited 0 times as of 1/13/2023)
283. Ji JS, Liu L, **Zhang JJ**, Kan H, Zhao B, Zeng Y, Burkart KG. NO_2 and $PM_{2.5}$ air pollution co-exposure and temperature effect modification on premature mortality: An advanced aging cohort in China. *Environmental Research*. 2022. https://doi.org/10.1186/s12940-022-00901-8.
(Cited 1 times as of 1/13/2023)
284. Guo Q, Zhao Y, Zhao J, Bian M, Qian L, Xue T, **Zhang JJ**, Duan X. Physical activity attenuated the associations between ambient air pollutants and metabolic syndrome (MetS): A nationwide studyacross 28 prinvinces. *Environmental Pollution*. 2022, https://doi.org/10.1016/j.envpol.2022.120348.
(Cited 0 times as of 1/13/2023)
285. Guo Q, Zhao Y, Zhao J, Bian M, Qian L, Xue T, **Zhang JJ**, Duan X. Acute change of lung function to short-term exposure to ambient air pollutants with and without physical activity: A real-world crossover study. *Environmental Pollution*. 2022, https://doi.org/10.1016/j.envpol.2022.120481.
(Cited 0 times as of 1/13/2023)
286. Guo Q, Zhao Y, Xue T, **Zhang J**, Duan X. Association of PM2.5 and its chemical compositions with metabloc syndrome: A nationwide study in middle-aged and and older Chinese adults. *International Journal of Environmental Research and Public Health.* 2022, https://doi.org/10.3390/ijerph192214671.
(Cited 0 times as of 1/13/2023)
287. Blanc N, Liao J, Gilliland F, **Zhang JJ**, Berhane K, Huang G, Chen Z. A systematic review of evidence for maternal preconception exposure to outdoor air pollution on children's health. *Environmental Pollution.* 2022, https://doi.org/10.1016/j.envpol.2022.120850. PMID: 36528197.
(Cited 0 times as of 1/13/2023)
288. Fuemmeler BF, Glasgow TE, Schechter JC, Maguire R, Sheng Y, Bidopia T, Barsell DJ, Ksinan A, **Zhang J**, Lin Y, Hoyo C, Murphy S, Qin J, Wang X, Kollins S. Prenatal and childhood smoke exposure associations with cognition, language, and ADHD. *Journal of Pediatrics.* 2022, https://doi.org/10.1016/j.jpeds.2022.11.041.
(Cited 0 times as of 1/13/2023)
289. Zhang Y, Yin Z, Li S, **Zhang JJ**, Sun H, Liu K, Shirai K, Hu K, Qiu C, Liu X, Li Y, Zeng Y, Yao Y. Ambient $PM_{2.5}$, ozone, and mortality in Chinese older adults: A nationwide cohort analysis (2005-2018). *Journal of Hazardous Materials.* 2023, https://doi.org/10.1016/j.jhazmat.2023.131539.
290. Li X, Duan C, Chen Q, Xiao J, , **Zhang JJ**. Associations between cooking fuels and hypertension prevalence in Chinese adults: A prospective cohort analysis focusing on fuel transitioning. *Environmental International.* 2023, https://doi.org/10.1016/j.envint.2023.107953.
291. Lin Y, Craig E, Liu X, Ge Y, Brunner J, Wang X, Yang Z, Hopke PK, Miller RK, Barrett E, Thurston SW, Murphy SK, O'Connor TG, Rich DQ, **Zhang JJ**. Urinary 1-hydroxypyrene in pregnant women in a northeastern U.S. city: socioeconomic disparity and contributions from air pollution sources. *Journal of Exposure Science & Environmental Epidemiology.* 2023, https://doi.org/10.1038/s41370-023-00555-9.

292. Maccarone J, Grady ST, Moy ML, Hart JE, Kang C, Coull BA, Schwartz JD, Koutrakis P, **Zhang JJ**, Garshick E. Indoor (residential) and ambient particulate matter associations with urinary oxidative stress biomarkers in a COPD cohort. *Science of the Total Environment.* 2023. https://doi.org/10.1016/j.scitotenv.2023.165352.
293. **Zhang JJ,** Zheng Y, Vermeulen R, Liu X, Dai Y, Hu W, He L, Lin Y, Ren D, Duan H, Niu Y, Xu J, Fu W, Meliefste K, Zhou B, Yang J, Ye M, Jia X, Meng T, Bin P, Bassig B, Hosgood HD, Silverman D, Lan Q, Rothman N. Urinary amino-PAHs in relation to diesel engine emissions and urinary mutagenicity. *International Journal of Hygiene & Environmental Health.* 2023, https://doi.org/10.1016/j.ijheh.2023.114223.
294. Tong M, Lin W, Liu H, Gong J, **Zhang JJ,** Xue T. Gestational age modified the association between exposure to fine particles and fetal death: Findings from a nationwide epidemiologycal study in the contguous United States. *Environmental Health.* 2023. https://doi.org/10.1186/s12940-023-01016-4.
295. Cui X, Zhou X, Li Z, Teng Y, Lin L, Wang Q, Hong J, Lin Y, Black MS, Bergin MH, **Zhang J.** Association between childhood asthma control test scores and lung pathophysiologic indicators in longgitudinal measurements. *Journal of Thoracic Disease.* 2023, 15: 4207-4215. https://doi.org/10.21037/jtd-22-1383
296. McHugh EG, Grady ST, Collins CM, Moy ML, Hart JE, Coull BA, Schwartz JD, Koutrakis PK, **Zhang J**, Garshick E. Pulmonary, inflammatory, and oxidative effects of indoor nitrogen dioxide in patients with COPD. *Environmental Epidemiology.* 2023, 7(5):p e271. https://doi.org/10.1097/EE9.0000000000000271.
297. He L, Weschler CJ, Zhang Y, Li F, Bergin MH, Black M, **Zhang JJ**. Ozone reaction products associated with biomarkers of cardiorespiratory pathophysiology. *American Journal of Respiratory and Critical Care Medicine.* 2023, 207: 1243- 1246, https://doi.org/10.1164/rccm.202212-2203LE.
298. Liao J, Zhang Y, Yang Z, Qiu C, Chen W, **Zhang JJ**, Berhane K, Bai Z, Han B, Xu J, Jiang Y, Gilliland F, Yan W, Huang G, Chen Z. Identifying critical windows of air pollution expousre during preconception and gestational period on birthweight: a prospective cohort study. *Environmental Health.* 2023. https://doi.org/10.1186/s12940-023-01022-6
299. Fang Z, Fu Y, Peng Y, Song S, Wang Z, Yang Y, Nie Y, Han H, Teng Y, Xiao W, Chen J, Zhou B, Ou G, Xie J, Liu X, **Zhang JJ**, Zhong N. Citrus peel extract protects against diesel exhaust particle induced chronic pulmonary disease-like lung lesions and oxidative stress. *Food & Function.* 2023, https://doi.org/10.1039/d3fo02010j.
300. Li S, Cui G, Er Y, Ye P, Xue T, **Zhang JJ**, Liu X, Duan L, Lv F, Yao Y. Housing environmental factors driving falls among middle-aged and older adults: a national cohort study. *Innovation in Aging.* 2023, https://doi.org/10.1093/geroni/igad121.
301. He L, Evans S, Norris C, Barkjohn K, Cui X, Li Z, Zhou X, Li F, Zhang Y, Black M, Bergin M, **Zhang JJ**. Associations between personal apparent tempertaure exposures and asthma sysmptoms in children with asthma. *PLOS One.* 2023, https://doi.org/10.1371/journal.pone.0293603.
302. Yang Z, Liao J, Zhang Y, Lin Y, Ge Y, Chen W, Qiu C, Berhane K, Bai Z, Han B, Xu J, Jiang Y-H, Gilliland FD, Yan W, Chen Z, Huang G, **Zhang J**. Critical windows of greenness exposure during preceonception and gestational periods in association with birthweigh outcomes. *Environmental Research: Health.* 2023, https://doi.org/10.1088/2752-5309/ad0aa6.
303. Guo C, Ge E, Yu M, Li C, Lao X, Li S, Glasewr J, He Y, Almeida-Silva M, Meng S, Su W, **Zhang J**, Lin S, Zhang K. Impact of heat on emergency hospital admissions related to kidney diseases in Texas: uncovering racial disparities. *Socience of the Total Environment.* 2023, https://doi.org/10.1016/j.scitotenv.2023.168377.
304. Fang Z, Wang Z, Chen Z, Peng Y, Fu Y, Yang Y, Han H, Teng Y, Zhou W, Xu D, Liu X, Xie J, **Zhang JJ**, Zhong N. Fine particulate matter contributes to COPD-like pathophysiology: Experimental evidence from rats exposed to diesel exhaust particles. *Respiratory Research.* 2024, https://doi.org/10.1186/s12931-023-02623-y.

305. Lin Y, Wang X, Chen R, Weil T, Ge Y, Stapleton HM, Bergin MH, **Zhang JJ**. Arachidonic acid metabolites in self-collected biospecimens following campfire exposure: Exploring non-invasive biomarkers of wildfire health effects. *Environmental Science & Technology Letters.* 2024, https://doi.org/10.1021/acs.estlett.3c00923.
306. Nassikas NJ, McCormack MC, Ewat G, Balmes JR, Bond TC, Brigham E, Cromar K, Goldstein AH, Hicks A, Hopke PK, Meyer B, Nazaroff WW, Paulin LM, Ric MB, Thurston GD, Turpin BJ, Vance ME, Weschler CJ, **Zhang J**, Kipen HM. Indoor air sources of outdoor air pollution: health consequences, policy, and recommendations. *Annals of American Thoracic Society.* 2024, 21: 365-376. https://doi.org/10.1513/AnnalsATS.202312-1067ST.
307. Xu Y, Han Y, Chen W, Chatzidiakou, Yan L, Kause A, Li Y, Zhang H, Wang T, Xue T, Chan Q, Barratt B, Jones RL, Liu J, Wu Y, Zhao M, **Zhang J,** Kelly F, Zhu T. Susceptibility of hypertensive individuals to acute blood pressure increases in response to personal-level environmental temperature decrease. *Environmental International.* 2024, https://doi.org/10.1016/j.envint.2024. 108567.
308. Zhao L, Hou X, Feng Y, Zhang Y, Shao S, Wu X, **Zhang JJ,** Zhang Z. A chronic stress-induced microbiome perturbation, highly enriched in *Ruminococcaceae_UCG-014*, promotes colorectal cancer growth and metastasis. *International Journal of Medical Sciences.* 2024, 21:882-895. https://doi.org/10.7150/ijms.90612.
309. Jiang Y, Wu Y, Hu Y, Li S, Ren L, Wang J, Yu M, Yang R, Wei L, Zhang N, Hu K, Zhang Y, Livingston G, **Zhang JJ,** Zeng Y, Chen H, Yao Y. Bi-directional association between outdoor or social activties and cognitive function: do the PM2.5 exposure catalyze the detrimental inactivity-poor cognitive cycle? *Environmental Research.* 2024, https://doi.org/10.1016/j.envres.2024. 118868.
310. Wu P, Guo Q, Zhao Y, Bian M, Cao S, **Zhang JJ**, Duan X. Emerging concern on air pollution and health: trade-off between air pollution exposure and physical activity. *Eco- Environment & Health.* 2024, 3: 202-207. https://doi.org/10.1016/j.eehl.2024.01.012.
311. He L, Norris C, Palaguachi-Lopez K, Barkjohn K, Li Z, Li F, Zhang Y, Black M, Bergin M, **Zhang JJ**. Nasal oxidative stress mediating the effects of colder tempertaure exposure on pediatric asthma sysmptoms. *Pediatric Reserach.* 2024, https://doi.org/10.1038/s41390-024-03196-2.
312. Yang Z, Prox L, Meernik C, Raveendran Y, Gibson P, Koch A, Clarke J, Chen R, **Zhang JJ**, Akinyemiju T. Neighborhood-level socioeconomic disparities in radon testing in North Carolina from 2010 to 2020. *Journal of Environmental Radioactivity.* 2024, https://doi.org/10.1016/j.jenvrad.2024.107460
313. Fuemmeler BF, Bassam D, Glasgow TV, Barsell J, Oliver JA, **Zhang J**, Hoyo C, Murphy SK, McClernon J,. Wheeler DC. Tobacco exposures are associated with health care utilization and health care costs in pregnant persons and their newborne babies. *Nicotine & Tobacco Research.* 2024. https://doi.org/10.1093/ntr/ntae128.
314. Tong M, Lu H, Xu H, Fan X, , **Zhang JJ,** Kelly F, Gong J, Han Y, Li P, Wang R, Li J, Zhu T, Xue T. Reduced human fecaundity attributable to ambient fine particles in low- and middle-income countries. *Environmental International.* 2024, https://doi.org/10.1016/j.envint.2024.108784.
315. He L, Weschler CJ, Morrison G, Li F, Zhang Y, Bergin M, Black M, **Zhang JJ**. Synergistic effects of ozone reaction products and fine particulate matter on respiratory pathophysiology in children with asthma. *ACS ES&T Air.* 2024, https://doi.org/10.1021/acesestair.4c00080.
316. Zhang Y, Gong J, Hu X, He L, Lin Y, **Zhang JJ**, Meng X, Zhang Y, Mo J, Day DB, Xiang J. Glycerophospholipid metabolism changes association with ozone exposure. *Journal of Hazardous Materials.* 2024. https://doi.org/10.1016/j.jhazmat.2024.134870.
317. Li X, Huang M, Xiao J, Duan C, Chen Q, Xiao S, Tu H, **Zhang JJ**. Transition of cooking fuels and obesity risk in Chinese adults. *Environmental International.* 2024, https://doi.org/10.1016/j.envint.2024.108856.

318. Wang X, Lin Y, Ge Y, Craig E, Liu X, Miller RK, Thurston SW, Brunner J, Barrett ES, O'Connor TG, Rich DQ, **Zhang JJ**. Sytemic oxidative stress levels during the course of pregnancy: Associations with exposure to air pollutants. *Environmental Pollution.* 2024, https://doi.org/10.1016/j.envpol.2024.124463.
319. Chai Q, Lin Y, Zhu Y, Liu J, Shi X, Jiang X, Lu X, Yan L, **Zhang JJ,** Zhu T, Araujo J, Qiu X. Urinary idoine metabolomics are a novel tool to understand environment-induced thyroid hormone metabolic alteration. *Environmental Science & Technology Letters.* 2024, https://doi.org/10.1021/acs.estlett.4c00428.
320. Yount CS, Scheible K, Thurston SW, Qiu X, Ge Y, Yang Z, Hopke PK, Lin Y, Miller RK, Murphy SK, Brunner J, Barrett E, O'Connor T, **Zhang J**, Rich DQ. Short term air pollution exposure during pregnancy and acute changes in markers of immune function measured in maternal blood. *Environmental Research.* 2024, https://doi.org/10.1016/j.envres.2024. 119639.
321. Craig EA, Lin Y, Ge Y, Wang X, Murphy SK, Harrington DK, Miller RK, Thurston SW, Hopke PK, Barrett ES, O'Connor TG, Rich DQ, **Zhang J**. Associations of gestational exposure to air pollution and polycyclic aromatic hydrocarbons with placental inflammation. *Environment & Health.* 2024, https://doi.org/10.1021/envhealth.4c00077. PMC11420950.
322. Qi W, Zhang H, Han Y, Chen W, Teng Y, Chatzidiakou L, Barratt B, Jone R, Kelly F, Zhu T, **Zhang JJ**, Ji JS. Short-term air pollution and greenness exposures on oxidative stress in urban and peri-urban residents in Beijing: A part of AIRLESS Study. *Socience of the Total Environment.* 2024, https://doi.org/10.1016/j.scitotenv.2024.175148.
323. Lin Y, Shi X, Qiu X, Jiang X, Liu J, Zhong P, Ge Y, Tseng C, **Zhang JJ**, Zhu T, Araujo JA, Zhu Y. Reduction in polycyclic aromatic hydrocarbon exposure in Beijing following China's clean air actions. *Science Bulletin*. 2024. https://doi.org/10.1016/j.scib.2024.08.015.
324. Lin Y, Chen R, Ge Y, Brunner J, Hopke PK, Miller RK, Thornburg LL, Stevens T, Barret ES, Harrington DK, Thurston SW, Murphy SK, O'Connor TG, Rich DQ, **Zhang JJ**. Exposure to low-level air pollution and hyperglycemia markers during pregnancy: A repeated measures analysis. *Environmental Science & Technology.* 2024, https://doi.org/10.1021/acs.est.4c05612.
325. Sarkar SR, Carranza C, Gonzalez Y, **Zhang JJ,** Osornio-Vargas A, Ohman-Strickland P, Torres M, Schwander S. Exposure to urban air pollution particulate matter modifies Th1/Th2 *Mtb* immunity in the human lung. *American Journal of Respiratory Cell and Molecular Biology.* 2024. https://doi.org/10.1165/rcmb.2024-0240LE.
326. Wu P, Guo Q, Zhao Y, Bian M, Wang G, Wu W, Shao J, Wang Q, Duan X, **Zhang JJ**. Contribution of a minute ventilation model to address inter-individual inhaled dose variability within identical expsoure scenarios using wearable devices. *Socience of the Total Environment.* 2024, https://doi.org/10.1016/j.scitotenv.2024.176415.
327. He L, Hao Z, Weschler CJ, Li F, Zhang Y, **Zhang JJ**. Ozone reaction products: contributors to the respiratory health effects associated with low-level outdoor ozone. *Atmospheric Environment.* 2024, https://doi.org/10.1016/j.atmosenv.2024.120920.
328. Kahwaji M, Duttweiler L, Thurston S, Harrington D, Miller RK, Murphy SK,Wang C, Brunner J, Ge Y, Lin Y, Hopke P, O'Connor TG, **Zhang JJ**, Rich DQ, Barrett ES. Gestational exposure to $PM_{2.5}$, NO_2 and sex steriod hormones: Identifying critical windows of exposure in the Rochester UPSIDE Cohort. *Environmnetal Epidemiology.* 2024, https://doi.org/10.1097/EE9.0000000000000361.
329. Wang X, Ge Y, Lin Y, Craig EA, Chen R, Miller RK, Barrett ES, Thurston SW, O'Connor TG, Rich DQ, **Zhang JJ**. Benzo[a]prene and phenanthrene hemoglobin addcuts as biomarker of longer-term air pollution expousre. *Environmnetal Scienec Processes & Impacts.* 2025, 27: 146-153. https://doi.org/10.1039/d4em00551a.

330. Liao J, Yan W, Zhang Y, Berhane K, Chen W, Yang Z, Qiu C, Ge Y, Bai Z, Han B, Xu J, Jiang Y, Gilliland F, **Zhang JJ**, Huang G, Chen Z. Associations of preconception air pollution exposure with growth trajectory in young children: A prospective cohort study. *Environmental Research.* 2024. https://doi.org/10.1016/j.envres.2024. 120665.
331. Yang Z, Prox L, Meernik C, Raveendran Y, Press D, Gibson P, Koch A, Ajumobi O, clarke J, Chen R, **Zhang JJ**, Akinyemiju T. Identifying predictors of spatiotemporal variations in residential radon concentrations across North Carolina using machine learning analytics. *Environmental Pollution.* 2024, https://doi.org/10.1016/j.envpol.2024.125592.
332. Ge Y, Lin Y, Tsogtbayar O, Khuyagaa S, Khurelbaatar E, Galsuren J, Prox L, Zhang S, Tihe RM, Gray GC, **Zhang J**, Ulziimaa S, Boldbaatar D, Nyamdavaa K, Dambadarjaa D. Interactive effects of air pollutants and viral exposure on daily influenza hospital visits in Mongolia. *Environmental Research.* 2024, https://doi.org/10.1016/j.envres.2024.120134.
333. Zanif U, Lai AS, Parks J, Roenningen A, McLeod CB, Aya N, Wang X, Lin Y, **Zhang JJ**, Bhatti P. Melatonin supplementation and oxidative DNA damage repair capacity among night shift workers: A randomized placebo-controlled trial. *Occuptional and Environmental Medicine.* 2025, https://doi.org/10.1136/oemed-2024-109824.
334. Imani P, Grigoryan H, Dudoit S, Shu X, Wong J, Zhang L, **Zhang JJ**, Hu W, Cai G, Gao Y, Blechter B, Rahman M, Zheng W, Rothman N, Lan Q, Stephen M Rappaport SM. HSA Adductomics in the Shanghai Women's Health Study Links Lung Cancer in Never-Smokers with Air Pollution, Redox Biology and One-Carbon Metabolism. *Antioxidants.* 2025, https://doi.org/10.3390/antio14030335.

Peer-reviewed Research Reports, Commentaries, Editorials

335. Smith KR, Pennise DM, Khummongkol P, Chaiwong V, Ritgeen K, **Zhang J**., Panyathanya W, Rasmussen RA, Khalil MAK, Thorneloe SA. Greenhouse Gases from Small-scale Combustion Devices in Developing Countries. Phase III: Charcoal-Making Kilns in Thailand. EPA-600/R-99-109. December, 1999. U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C. (Cited 8 times as of 1/13/2023)
336. Smith K.R., Uma R., Kishore V.V.N., Lata K., Madne S., Rao G., **Zhang J**., Rasmussen R.A., Khalil M.A.K., and Thorneloe S.A. Greenhouse Gases from Small-scale Combustion Devices in Developing Countries, Phase IIa: Household Stoves in India. EPA-600/R-00-052 June, 2000. U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C. (Cited 6 times as of 1/13/2023)
337. Weisel CP, **Zhang J**, Turpin BJ, Morandi MT, Colome S, Stock TH, Spektor DM. Investigators' Report: Relationships of Indoor, Outdoor, and Personal Air (RIOPA). Part I. Collection Methods and Descriptive Analyses. Research Report 130. Health Effects Institute (HEI) and the Mickey Leland National Urban Air Toxics Center. Boston, MA. 2005. (Cited 193 times as of 1/13/2023)
338. Turpin BJ, Weisel CP, Morandi MT, Colome S, Stock T, Eisenreich S, Buckley B, Meng QY, Winer A, **Zhang JJ**, et al. Investigators' Report: Relationships of Indoor, Outdoor, and Personal Air (RIOPA). Part II. Analyses of Concentrations of Particulate Matter Species. Research Report 130. Health Effects Institute (HEI) and the Mickey Leland National Urban Air Toxics Center. Boston, MA. 2005. (Cited 95 times as of 1/13/2023)
339. **Zhang J**, McCreanor JE, Cullinan P, Chung KF, Ohman-Strickland P, Han I, Jarup L, Nieuwenhuijsen MJ, Investigators' Report: Health Effects of Real-world Exposure to Diesel Exhaust in Asthmatics. Research Report 136. Health Effects Institute (HEI), Boston, MA, 2009. available at http://pubs.healtheffects.org/view.php?id=297 (Cited 96 times as of 1/13/2023)

340. **Zhang J**. as Contributing Author. Volume 95 of the IARC Monographs on "Household Use of Solid Fuels and High-temperature Frying", International Agency for Research on Cancer, Lyon, France. 2010.
(Cited 25 times as of 1/13/2023)
341. **Zhang J**. as Contributing Author, Special Report 18 of Health Effects Institute "Outdoor Air Pollution and Health in the Developing Countries of Asia: A Comprehensive Review". Health Effects Institute (HEI), Boston, MA. November 2010.
(Cited 57 times as of 1/13/2023)
342. Lioy PJ, Fan Z, **Zhang J**, Georgopoulos P, Wang S, Ohman-Strickland P, Wu X, Zhu X, Harrington J, Tang X, Meng Q, Jung KH, Kwon J, Hernandez M. "Personal and Ambient Exposures to Air Toxics in Camden, New Jersey". Health Effects Institute (HEI), Boston, MA. 2011.
(Cited 30 times as of 1/13/2023)
343. **Zhang J**., Zhu T., Kipen H., Wang G., Huang W., Rich D., Zhu P., Wang Y., Lu S.E., Ohman-Strickland P., Diehl S., Hu M., Tong J., Gong J., Thomas D. Special Investigator's Report Number 174: "Cardio-respiratory Biomarker Responses of Healthy Young Adults to Drastic Air Quality Changes Surrounding the Beijing Olympics". Health Effects Institute (HEI), Boston, MA. February 2013.
(Cited 148 times as of 1/13/2023).
344. **Zhang J**. Low-level air pollution associated with death: Policy and clinical implications. *JAMA* (Editorial), 2017 Dec 26, 318 (24).
(Cited 20 times as of 1/13/2023)
345. Xu M, Daigger GT, Xi C, Liu J, Qu J, Alvarez PJ, Biswas P, Chen Y, Dolinoy D, Fan Y, Gao HO, Hao J, He H, Kammen DM, Lemos MC, Liu F, Love NG, Lu Y, Mauzerall DL, Miller SA, Ouyang Z, Overpeck JT, Peng W, Ramaswami A, Ren Z, Wang A, Wu B, Wu Y, **Zhang J**, Zheng C, Zhu B, Zhu T, Chen W, Liu G, Qu S, Wang C, Wang Y, Yu X, Zhang C, Zhang H. U.S.-China collaboration is vital to global plans for a healthy environment and sustainable development. *Environmental Science & Technology.* (Viewpoint) 2020. https://doi.org/10.1021/acs.est.0c08750.
(Cited 5 times as of 1/13/2023)
346. Yao Y, Liu K, **Zhang JJ,** Iso H, Lam TH. Tobacco smoking and older people amid the COVID-19 pandemic: an elephant in the room. *Age and Ageing*. 2021, https://doi.org/10.1093/ageing/afab170.
(Cited 0 times as of 1/13/2023).

Books/Book Chapters

1. **Zhang J**., et al. *A Treasure Box of Environmental Knowledge*, Beijing: Chinese Environmental Science Press. 1988.
2. **Zhang J**., et al. *A Treasure Box of Environmental Knowledge*, 2nd ed., Beijing: Chinese Environmental Science Press. 1993.
3. **Zhang J**., et al. *A Treasure Box of Environmental Knowledge*, 3rd ed., Beijing: Chinese Environmental Science Press. 1993.
4. **Zhang J**., et al. *A Treasure Box of Environmental Knowledge*, 4th ed., Beijing: Chinese Youth Press. 1995.
5. Lioy P.J. and **Zhang J**. "Chapter 1: Air pollution". In *Air Pollutants and The Respiratory Tract.* Edited by Swift, D.L., Series of Lung Biology in Health and Disease. Marcel Dekker. pp 1-38. 1999.
6. **Zhang J** . " Hazardous Air Pollutants**"** . In: *Encyclopedia of Public Health*. Edited by L. Breslow, B. Goldstein, L.W. Green, W. Keck, J. Last, M. McGinnis. Macmillan Reference, New York, NY. 2001.
7. Samet, J.M., **Zhang J.** "Climate Change and Health". In: *Routledge Handbook on Public Health in Asia: Global Perspectives.* Edited by S. Griffith, J.L.Tang , and E.K. Yeoh. Routledge, Taylor and Francis Group, Oxon, UK. 2013.

8. **Zhang J**, Day D. "Chapter 13: Urban Air Pollution and Health in Developing Countries." In: Air Pollution and Health Effects. Edited by Nadadur SS and Hollingsworth JW. Part of: Molecular and Integrated Toxicology. Springer. 2015. ISBN-10: 1447166701.
9. Huang J., Wang J., Yang T., **Zhang J**. Application of Biomarkers in Assessing Health Risk of Indoor Air Pollutants. In: Zhang Y., Hopke P.K., Mandin C. (eds) *Handbook of Indoor Air Quality*. Springer, Singapore. 2022. pp 1252-1299. https://doi.org/10.1007/978-981-10-5155-5_47-1.
10. **Zhang J**, Yang X, Zheng X, Li R. Animal tests to determine the health risks of indoor air pollutants. In: Zhang Y., Hopke P.K., Mandin C. (eds) *Handbook of Indoor Air Quality*. Springer Nature Singapore. 2022. Pp 1219-1250. https://doi.org/10.1007/978-981-10-5155-5_46-1

Selected Conference Proceeding Papers

1. **Zhang J**., Li J., Tang X., Wilson W. E. (1988) Production of organic hydroperoxides and hydrogen peroxide in HC-NOx-Dry air system. *Journal of the Environmental Chemistry Division, ACS*, Vol. 28, No. 2, pp. 96-98.
2. **Zhang J**., He Q., Lioy P. J. (1993) Concentrations of aldehydes in residential indoor and outdoor air. *Proceedings of Indoor Air '93, the 6th International Conference on Indoor Air Quality and Climate,* Vol. 2: pp. 165-169, Helsinki, Finland. (Peer reviewed)
3. Smith K.R., **Zhang J**., Thorneloe S.A. (1995) Greenhouse gases from widely used small-scale combustion devices in developing countries: Phase I-II: stoves in India and China and Phase III: charcoal kilns in Thailand. *Proceedings of the EPA's Symposium on Greenhouse Gas Emissions and Mitigation Research*, June 27-29, 1995, Washington, D.C.
4. **Zhang J**. and Smith K.R. (1996) Indoor air pollution: Formaldehyde and other carbonyls emitted from various cookstoves. *Proceedings of Indoor Air '96, the 7th International Conference on Indoor Air Quality and Climate,* Vol. 2, pp. 85-90, Nagoya, Japan. (Peer reviewed)
5. Fan C., **Zhang J.** and Cheung J. P. (1997) Air pollutants emitted from household combustion sources. *Proceedings of Measurement of Toxic and Related Air Pollutants Symposium*, Air & Waste Management Association, April 29 - May 1, 1997, Research Triangle Park, North Carolina.
6. **Zhang J.,** Smith K.R., Kishore V.V.N., Ma Y., Rasmussen R., Uma R., Khalil M.A.K., Kusam J. and Thorneloe S.A. (1997) Greenhouse Gases from Cookstoves in Developing Countries: Preliminary Emission Factors. *In Emission Inventory: Planning for the Future*, *Proceedings of the 1997 AWMA/EPA Emission Inventory Conference*, October 28-30, 1997, Research Triangle Park, North Carolina, Vol 1, pp. 368-378.
7. Fan C. and **Zhang J**. (1998) Particulate matter and other air pollutants from several portable household combustion devices: particle size distributions, emission rates, emission factors, and potential exposures. In *Proceedings of AWMA's Conference of PM2.5, A Fine Particle Standard*, January 27-30, 1998, Long Beach, California, Pp 876-888.
8. Qian Z., **Zhang J**., Wei F., Chapman R.S. Impacts of cooking coal smoke and heating coal smoke on respiratory health of children in four Chinese cities. *Proceedings of Indoor Air 2002*. Vol IV, pp. 1030-1035. (Peer reviewed)
9. Fiedler N., **Zhang J**., Fan Z., Kelly-McNeil K., Lioy P.J., Gardner C., Ohman-Strickland P., Kipen H. Health effects of a volatile organic mixture with and without ozone. *Proceedings of Indoor Air 2002.* Vol II, pp 596-601. (Peer reviewed)
10. Bai Z., Jia C., Zhu T., **Zhang J**. Indoor air quality related standards in China. *Proceedings of Indoor Air 2002.* Vol IV, pp 1012-1017. (Peer reviewed)

11. Liu W., **Zhang J.,** Zhang L., Weisel C.P., Turpin B.J., Morandi M.T., Colome S., Stock T.H., Korn L. Can personal exposure to carbonyls be predicted using residential indoor and outdoor concentrations? *The Proceedings of Indoor Air 2005,* the 10th International Conference on Indoor Air Quality and Climate, Sept 4-9, 2005. Beijing China. pp 1759-1762. (Peer reviewed).

VI: MEDIA AND OUTRESEARCH ACTIVITIES

Only started to track in 2023, prior to that, numerous coverages in newspapers and magazines (the Gaudian, the Atlantic, NYT, etc.), TV (ABC, BBC, CBC, NBC, etc.), radio coverages (BBC, the Sports Radio, NPR, etc.), several op-eds (NYT, Fortune, New Yorker, etc.)

November 19, 2023, Op-ed in *The Honolulu Star-Advertiser*, "Air pollution from Hawaii's wildfires can cause serious health problems", co-authored by Sumeet Saksena, Jim Zhang, and Marilyn Black.

January 15, 2025, Bioengineering. "Study Reveals Connection Between Pre-Pregnancy Air Pollution Exposure and Increased Childhood Obesity Risk". In a groundbreaking study involving 5,834 mother-child pairs, researchers have uncovered significant links between air pollution exposure during the preconception period and the development of childhood obesity. This research, conducted by the Keck School of Medicine of USC, in collaboration with Duke University and Fudan University in Shanghai, sheds light on a critical yet often overlooked timeframe: the three months leading up to pregnancy.

January 16, 2025, Med India (IN). "Exposure to Air Pollution Before Pregnancy Linked to Child Obesity." Exposure to air pollution before pregnancy may increase a child's BMI and obesity risk, highlighting the importance of reducing pollution exposure for healthier child development. Mothers exposed to air pollution three months before getting pregnant can give birth to their children with a higher Body Mass Index (BMI) and develop obesity risk factors within two years of age.

January 16, 2025, Drug Today. "Air Pollution Before Pregnancy May Raise Risk of Child Obesity: Study". A new study published in Environmental Research revealed that exposure to air pollution in the three months preceding pregnancy may raise the risk of obesity in children up to two years old. Researchers evaluated data from over 5,000 women and their children and discovered a relationship between preconception pollution exposure and greater BMI and other risk factors.

January 16, 2025, Medical Xpress. "Air pollution exposure before pregnancy may influence child's BMI and obesity." In a study of more than 5,000 mothers and their children, exposure to air pollution during the three months before pregnancy predicted higher child body mass index (BMI) and related obesity risk factors up to two years of age, which are in their final stages of growth.

January 16, 2025, Technology Networks. Air Pollution Before Pregnancy Tied to Higher Child BMI | Technology Networks

January 17, 2025, Air Quality News. "Exposure to air pollution before conception linked to higher BMI in children". Research on a cohort of Chinese mothers and their children has found exposure to elevated levels of particulate matter in the three months prior to conception is linked with higher childhood obesity risk up to two years after birth. The additional presence of high levels of NO2 was also found to be associated with higher body weight growth.

January 17, 2025, Deseret News (also carried by Yahoo News). Air quality before pregnancy linked to child's obesity risk – Deseret News.