

CURRICULUM VITAE

NAME Inkyu Han, Ph.D., M.P.H.

PRESENT TITLE Assistant Professor

OFFICE ADDRESS Division of Epidemiology, Human Genetics, and Environmental Sciences
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EDUCATION

1997 B.S., Environmental Sciences, Hankuk University of Foreign Studies, Korea
1999 M.P.H., Environmental Health, Seoul National University School of Public Health, Korea
2008 Ph.D., Environmental and Occupational Health, Rutgers, The State University of New Jersey (Previously, University of Medicine and Dentistry of New Jersey (UMDNJ) School of Public Health), Piscataway, NJ

POSTDOCTORAL TRAINING

2008-2011 Post Doctoral Fellow, Environmental Health Sciences, Johns Hopkins School of Public Health, Baltimore, MD

ACADEMIC APPOINTMENT

2012- Present Assistant Professor, Department of Epidemiology, Human Genetics, and Environmental Sciences, University of Texas School of Public Health
2012- 2013 Associate Program Director of the Industrial Hygiene Program, Southwest Center for Occupational and Environmental Health (SWCOEH)
2014- Present Director of Interdisciplinary Coordination, SWCOEH

OTHER POSITIONS

1998-2000 Special Researcher, Seoul National University Public Health Institute, Korea
2000-2001 Research Assistant, Seoul Institute of Public Health and Environment, Korea
2000-2001 Lecturer, Department of Environmental Sciences, Hankuk University of Foreign Studies, Korea
2000-2002 Lecturer, Department of Environmental Health, Wonju National College, Korea

PROFESSIONAL SOCIETIES

1999- Present International Society of Exposure Science
2002- Present Air and Waste Management Association
2008- Present American Association for Aerosol Research

2012- Present Engineering in Medicine and Biology Society

AWARDS AND HONORS

1997-1999 Fellowship by Seoul National University Foundation
1999 The Best Master Thesis Award by Seoul National University
2001 Travel Award by the International Society of Exposure Science 2001 Conference
2005 Emily and Leon Goldstein Award for Excellence in Research by UMDNJ
2005 The Best Ph.D. Student Research Award by UMDNJ
2006 The Best Ph.D. Student Research Award by UMDNJ
2012 Career Development Award by MD Anderson Cancer Center for Research on Environmental Disease

INVITED LECTURES

February 24, 2005 International Topical Meeting on Environmental Reliability and Risk Studies, Seoul National University, Korea, Sponsored by US National Science Foundation and co-sponsored by Rutgers University, Seoul National University and UMDNJ, presented a lecture entitled “Characterization of Diesel Exhaust Particles in an Urban Street Canyons.”

October 5, 2010 Seoul National University Environmental Health Seminar, Seoul, Korea, presented an invited lecture entitled “Physical and Chemical Characterization of Ambient Particles across the United States”

October 21, 2011 University of Texas School of Public Health Environmental Health Seminar, Houston, TX, presented an invited lecture entitled “Estimation of Combustion Source Contribution in Six US Counties using a PAH/BC Ratio”

November 4, 2013 Texas A&M University Environmental Toxicology Seminar, College Station, TX, presented an invited lecture entitled “Air Quality and Health: Location, Location, Location.”

EDITORIAL ACTIVITIES

Reviewer for
2010- Present Science of the Total Environment
2011- Present Journal of Environmental Monitoring
2011- Present Atmospheric Research
2012- Present Journal of Occupational and Environmental Hygiene
2012- Present Indoor Air
2012- Present Journal of Air and Waste Management Association

SERVICE ON UNIVERSITY COMMITTEES AND COMMUNITIES

2012- Present Member of the Chemical Safety Committee, University of Texas Health Science Center at Houston
2013- Present Member of the Environmental and Occupational Health Admission Committee
2014- 2015 Member of SWCOEH Faculty Search Committee
2014- 2015 Chair, EOHS Doctoral Preliminary Exam Committee
2014- Present Chemistry coach for Houston high school teachers
2016- Present Member of scientific advisory committee for Air Alliance Houston

TEACHING

Hankuk University of Foreign Studies, Korea

2000 Primary Instructor, Introduction to Environmental Sciences

2001 Primary Instructor, Environmental Organic Chemistry

Wonju National College, Korea

2000-2002 Primary Instructor, Environmental Sanitation

UMDNJ

2003 Guest Lecturer, Principles of Environmental Health (1 lecture)

Johns Hopkins School of Public Health

2009-2010 Guest Lecturer, Industrial Hygiene (4 lectures)

University of Texas School of Public Health

2012 - Guest Lecturer, Air and Environment (1 lecture)

2012 Fall Guest Lecturer, Overview of Environmental Health (1 lecture)

2012 Fall- Guest Lecturer, Environmental Microbiology (1 lecture)

2013 Spring Guest Lecturer, Environmental Sampling and Analysis (3 lectures)

2013 Spring- Current Lead Instructor, Contemporary Issues in Environmental and Occupational Health (2 credits)

2013 Fall- Current Co Instructor, Overview of Environmental Health (3 credits)

2014 Spring- Current Lead Instructor, Environmental Sampling and Analysis (4 credits)

2015- Guest Lecturer, Global Environmental Health (1 lecture)

2016- Guest Lecturer, Environmental Epidemiology (1 lecture)

STUDENT MENTORING

University of Texas School of Public Health

Yuncan (Cathy) Guo	Doctor of Philosophy	2012- Present	Role: Advisor
Amal Rammah	Doctor of Philosophy	2014- Present	Role: Dissertation Committee
Kiet Nguyen	Doctor of Philosophy	2014- Present	Role: Advisor
Tsai-Shu Chu	Doctor of Philosophy	2016- Present	Role: Advisor
Temitope Oluwadairo	Doctor of Philosophy	2016- Present	Role: Advisor
Bradon Blair	MPH	2013- Present	Role: Advisor
Sable Ward	MPH	2014- Present	Role: Advisor
Joshua Lew	MPH	2015- Present	Role: Advisor

PhD Graduates

Aisha Dickerson (PhD)	Doctor of Philosophy	2012- 2014	Role: Dissertation Committee
Jennifer Lepper (PhD)	Doctor of Philosophy	2013- 2015	Role: Dissertation Committee

MPH Graduates

Payel Acharya	MPH	2014- 2015	Role: Thesis advisor
Angela Sung	MPH	2014- 2016	Role: Advisor
Justin Lopez	MPH	2014- 2016	Role: Thesis advisor
Parinta Sah	MPH	2015- 2016	Role: Thesis committee

GRANTS

Current

CDC/NIOSH T42OH008421 Symanski (PI) 7/1/2015 – 6/30/2020

Southwest Center for Occupational and Environmental Health

The purpose of the SWCOEH is to respond to the critical need for well-trained occupational and environmental health specialists by providing graduate-level academic and research training and continuing education in the occupational health disciplines, with an underlying foundation of a state-of-the-art research program.

Role: Co-Investigator

NIH/NIEHS R01ES023563 Symanski(PI) 8/1/2014 - 6/30/2019

Sustainable Solutions to Metal Air Pollution in Disadvantaged Neighborhoods

This project uses a community-based participatory approach to 1) Conduct formative research; 2) Develop an intervention; and 3) Evaluate intervention effects regarding possible health related exposures from metal recycling.

Role: Co-Investigator

CDC / NIOSH R01OH010648 Delclos(PI) 8/1/2014 – 6/30/2018

Asthma in Texas Healthcare Professionals II

The purpose of the study is to repeat our assessment of asthma prevalence and associated risk factors among Texas healthcare workers (HCW) (nurses, physicians, respiratory therapists and occupational therapists) from 2003. The specific aims are to: (1) to estimate the prevalence rate of asthma risk factors and work-related asthma (WRA) in healthcare settings and compare these to rates obtained in the 2003 survey; (2) to measure associations between occupational exposures and WRA among Texas HCW and compare them to those obtained in 2003; and (3) to measure various indicators of socioeconomic impact of asthma in healthcare workers, comparing them among persons with WRA, non-work-related asthma in nonasthmatics.

Role: Co-Investigator

Completed

UT Health Science Center PRIME Whitworth(PI) 6/1/2015 – 5/31/2016

Feasibility of Assessing Biomarkers of Exposure to Volatile Organic Compounds (VOCs) and Fetal Growth among Women Attending a UTHealth Prenatal Clinic

The project is to analyze levels of benzene, toluene, ethylbenzene, xylenes and other compounds to examine the magnitude and variability of VOC exposure among pregnant women an UTHealth prenatal clinic serving primarily Medicaid patients

Role: Co-Investigator

SWCOEH Pilot Grant Han (PI) 7/1/2012-6/30/2013

Development of Analytical Method and Validation of Personal Samplers for Alkylanilines

Role: PI of Pilot award

NIHES 5P30ES007784-15 Johnson (PI) 4/30/2012-3/31/2013

Effects of Heat and Air Pollutants on Childhood Asthma in an Urban Community

Role: PI of CRED sub award

EPA STAR RD 83241701 Breyse/Geyh (PI) 10/1/2005-9/30/2011

Johns Hopkins PM Research Center: Project 2- PM Characterization and Exposure Assessment

Role: Investigator

PUBLICATIONS

1. Jung, D.H., Cho, I., **Han, I.K.**, and Chung, M.H. 2002. Effects of TiO₂ on treatment of organic compounds in wastewater. Korean Society of Environmental Sanitation. 13(4). 455-461.
2. Fan, Z., Wescheler, C., **Han, I.K.**, and Zhang, J. 2005. Co-formation of second aerosol particles. Atmospheric Environment. 39(28). 5171-5182.
3. McCreanor, J., Cullinan, P., Nieuwenhuijsen, M., Stewart-Evans, J., Malliarou, E., Jarup, L., Harrington, R., **Han, I.K.**, Ohman-Strickland, P., Chung, K.F., Zhang, J. 2007. Respiratory Effects of Real-Life Diesel Traffic in Persons with Asthma. New England Journal of Medicine. 357(23):2348-2358. PMID: 18057337 [PubMed - indexed for MEDLINE]
4. Zhang, J., **Han, I.K.**, Zhang, L., and Crain, W. 2008. Hazardous Chemicals in Synthetic Turf Materials and Their Bio-accessibility in Digestive Fluids. Journal of Exposure Science and Environmental Epidemiology. 18:600-607.
5. **Han, I. K.**, Duan, X., Zhang, L., Yang, H., Rhoads, G., Wei, F., and Zhang, J. 2008. 1-Hydroxypyrene concentrations in first morning voids and 24-hour composite urine: Intra- and inter-person comparisons. Journal of Exposure Science and Environmental Epidemiology. 18: 477-485. PMID: 18059422 [PubMed - indexed for MEDLINE]
6. Zhang, J., McCreanor, J.E., Cullinan, P., Chung, K.F., Ohman-Strickland, P., **Han, I.K.**, Jarup, L., Nieuwenhuijsen, M.J. 2009. Health effect of real-world exposure to diesel exhaust in persons with asthma. Research Report Health Effects Institute. 138: 5-109.
7. Wei, Y., **Han, I.K.**, Shao, M., Hu, M., Zhang, J., and Tang, X. 2009. PM_{2.5} Constituents and oxidative DNA damage in humans. Environmental Science and Technology. 43(13): 4757-4762. PMID: 19673262 [PubMed - indexed for MEDLINE]
8. Wei, Y., **Han, I.K.**, Shao, M., Hu, M., Zhang, J., and Tang, X. 2010. Personal exposure to particulate PAHs and anthraquinone and oxidative DNA damages in human. Chemosphere. 65(81): 1280-1285. PMID: 2086974 [PubMed - indexed for MEDLINE]
9. **Han, I.**, Ramos-Bonilla, P., Rule, A.M., Mihalic, J.N., Breysse, P.N., Geyh, A.S. 2011. Comparison of spatial and temporal variations in p-PAH, BC, and p-PAH/BC ratio in six US counties, Atmospheric Environment. 45(12): 7644-7652.
10. **Han, I.**, Mihalic, J. N., Rule, A.M., Ramos-Bonilla, P., Peng, R. D., Geyh, A.S., Breysse, P.N., 2012. Assessment of Heterogeneity of Metal Composition of Fine Particulate Matter Collected From Eight US Counties using Principal Component. Journal of Air & Waste Management Association. 62(7): 773-782. PMID: 22866579 [PubMed - indexed for MEDLINE]
11. Datta, S., Rule, A.M., Mihalic, J.N., Chillrud, S. N., Bostick, B., C., Ramos-Bonilla, J. P., **Han, I.**, Polyak, L. M., Geyh, A. S., Breysse, P.N., 2012. Use of X-ray Absorption Spectroscopy to Speciate Manganese in Airborne Particulate Matter from Five Counties Across the United States. Environmental Science and Technology. 46(6): 3101-3109. PMID: 22309075 [PubMed - indexed for MEDLINE]
12. Shim, J., Rao, R., Beebe, K., Neckers, L., **Han, I.**, Nahta, R., Liu, J., 2012. Selective inhibition of Her2-positivie breast cancer cells by the HIV protease inhibitor nelfinavir through Hsp90. Journal of National Cancer Institute. 104(20): 1576-1590. PMID: 23042933

13. **Han, I.**, Lee, J.S., Eo, S.M., 2014. Measurement of monocyclic aromatic amines in an urban air. *Environment and Pollution*. 3(3): 14-20.
14. *Dickerson, A., Rahbar, M.H., **Han, I.**, Bakian, A.V., Bilder, D.A., Harrington, R.A., Pettygrove, S., Durkin, M., Kirby, R.S., Wingate, M.S., Tian, L.H., Zahorodny, W.M., Pearson, D.A., Moye, L.A., Baio, J., 2015. Autism Spectrum Disorder Prevalence and Proximity to Industrial Facilities. *Science of the Total Environment*. 536: 245-251. PMID: 26218563.
15. *Hardos J, Whitehead LW, **Han I**, Ott DK, Waller DK. 2016. Depression prevalence and exposure to organophosphate esters in aircraft maintenance workers. *Aerospace Medicine and Human Performance*, 87(7): 712-717.
16. *Dickerson, A., Rahbar, M.H., Bakian, A., Bilder, D., Harrington, R., Pettygrove, S., Durkin, M., Kirby, R., **Han, I.**, Moye, L., Pearson, D., Wingate, M., Zahorodny, W., 2016. Autism Spectrum Disorder prevalence and associations with air concentrations of lead, mercury, and arsenic. *Environmental Monitoring and Assessment*. 188(7): 407.
17. **Han, I.**, Symanski, E., Stock, T.H., 2016. Feasibility of Low-cost Portable Particle Monitors for Measurement of Fine and Coarse Particulate Matter in Urban Ambient Air. *Journal of Air & Waste Management Association*. In Press.
18. **Han, I.**, Guo, Y., Afshar, M., Stock, T.H., Symanski, E. 2016. Comparison of trace elements in size-fractionated particles in a low socioeconomic status (SES) community and a high SES community in Houston, TX. *Environmental Monitoring and Assessment*. Under Review.

(* Student author)

PRESENTATIONS

1. Han, I.K., Park, C.K., Chung, M., and Zhang, J. Measurement of PM₁₀ and Particle-Phase PAHs from Anthropogenic Sources in Korea. International Society and Exposure Analysis and Environmental Epidemiology, Vancouver, BC, Canada, August 11-15, 2002.
2. Han, I.K., Park, C.K., Chung, M., and Zhang, J. Emissions of Particle Phase PAHs from Anthropogenic Sources in Korea. American Public Health Association 130th APHA Annual Conference, November 9-14, 2002.
3. Fan, Z., Han, I.K., Weschler, C., Zhang, C., and Zhang, J. Hydrogen Peroxides and Ultra-fine Particles Resulting from the Reactions of O₃ with Mixtures of Volatile Organic Compounds (VOC) under Simulated Indoor Conditions. International Society of Exposure Analysis- 13th Annual ISEA conference, Piemonte, Italy, September 21-25, 2003.
4. Zhang, J., Wei, F., Zhang, L., Yang, H., Duan, X., Liu, W., Han, I.K., and Rhoads, G. Can Urinary Metabolites Predict Exposures to Pyrene, B[a]P, and other PAHs? International Society of Exposure Analysis- 13th Annual ISEA conference, Piemonte, Italy, September 21-25, 2003.
5. Han, I.K., Zhang, J., Wei, F., Zhang, L., Yang, H., Duan, X., Liu, W., and Rhoads, G. Relationships between hydroxylated metabolites in urine and pyrene/benzo[a]pyrene exposure. International Society of Exposure Analysis- 14th Annual ISEA conference, Philadelphia, PA, October 17-21, 2004.

6. Han, I.K., Zhang, J., Zhang, L., Harrington, R. Impact of Diesel Powered Vehicles on Ambient Air in a London Street, International Topical Meeting on Environmental Reliability and Risk Studies. Seoul, Korea, February 20-22, 2005.
7. McCreanor, J. Stewart-Evans, J., Han, I.K., Harrington, R., Malliarou, E., Zhang, J., Nieuwenhuijsen, M., Cullinan, P., Chung, F., Ohman-Strickland, P., Jarup, L., and Svartengren, M. Health Effects of Diesel Exhaust in Asthmatic Patients: A Real-World Study in a London Street. Health Effects Institute 2005 Annual Conference, Baltimore, MD, April 17-19, 2005.
8. Han, I.K., Zhang, J. Zhang, L., McCreanor, J.E., Cullinan, P., Ohman-Strickland, P., Harrington, R., and Nieuwenhuijsen. Diesel exhaust and biomarkers in London, U.K., UMDNJ-SPH Research Day, Piscataway, NJ, April 15, 2005.
9. Han, I.K., Zhang, J., Zhang, L., McCreanor, J.E., Nieuwenhuijsen, M., Cullinan, P., Chung, F., Ohman-Strickland, P., Stewart-Evans, J., Harrington, R., and Malliarou, E. Can 1-hydroxypyrene be an Indicator of Short-term Exposure to Vehicular Diesel Exhaust? International Society of Exposure Analysis-15th Annual ISEA conference, Tucson, AZ, October 30-November 3, 2005.
10. McCreanor, J., Zhang, J., Cullinan, P., Nieuwenhuijsen, M.J., Chung, F., Ohman-Strickland, P., Stewart-Evans, J., Malliarou, E., Han, I.K., Svartengren, M., and Jarup, L. Short-term Exposure to Diesel Exhaust Worsens Asthma: Evidence from A Real-World Study. Health Effects Institute 2006 Annual Conference, San Francisco, CA, April 9-11, 2006.
11. Han, I.K. Stewart-Evans, J., Malliarou, E., McCreanor, J., Svartengren, M., Ohman-Strickland, P., Jarup, L., Cullinan, P., Chung, F., Zhang, J., and Nieuwenhuijsen, M. J. Short-term Exposure to Diesel Exhaust Worsens Asthma. UMDNJ-SPH Research Day, Piscataway, NJ, April 11, 2006.
12. Han, I.K., Duan, X., Yang, H., Zhang, L., Ohman-Strickland, P., Wei, F., Rhoads, G., and Zhang, J. Seasonal and Inter-Personal Variability of 1-Hydroxypyrene in Urine. ISEE-ISEA 2008 Joint Conference, Pasadena, CA, October 12-16, 2008.
13. Han, I.K., Groopman, J.D., Kensler, T., Geyh, A.S. Development and validation of GC/MS method for simultaneous quantification of alkyylanilines in air. International Society of Exposure Sciences. Minneapolis, MN, November 2 -5, 2009.
14. Geyh, A.S., Mihalic, J.N., Han, I.K., Ramos-Bonilla, J.P., Rule, A.M., Polyak, L.M., Breyse, P.N. Difference In Characteristics of Fine Ambient Particles Collected From Cities Across the United States. International Society of Exposure Sciences. Minneapolis, MN, November 2 -5, 2009.
15. Polyak, L.M., Rule, A.M., Kesavan, J.S., Geyh, A.S., Mihalic, J.N., Han, I.K., Ramos-Bonilla, J.P., Breyse, P.N. Side-by-Side Comparison of Two Ultrafine Particle Counters Measuring Ambient Particulate Matter. International Society of Exposure Sciences. Minneapolis, MN, November 2 -5, 2009.
16. Mihalic, J.N., Han, I.K., Ramos-Bonilla, J.P., Rule, A.M., Polyak, L.M., Breyse, P.N., Geyh, A.S. Differences in Characteristics of Fine Ambient PM Collected from Cities Across the U.S. Winter Conference on Plasma Spectrochemistry, Fort Myers, FL, January 3-9 2010.
17. Rule, A.M., Geyh, A.S., Mihalic, J.N., Ramos-Bonilla, J.P., Han, I.K., Polyak, L.M., Breyse, P.N. Using a Scanning Mobility Particle Sizer (SMPS) to evaluate Seasonal and Regional

Differences in Ultrafine PM in Four Counties Across the continental USA. American Association for Aerosol Research Specialty Conference. San Diego, CA. March 22-26, 2010.

18. Han, I.K., Ramos-Bonilla, J.P., Rule, A.M., Mihalic, J.N., Polyak, L.M., Breyse, P.N., Geyh, A.S. The spatial and temporal relationship between ambient black carbon and PAH in four U.S. counties. American Association for Aerosol Research Specialty Conference. San Diego, CA. March 22-26, 2010.
19. Ross, J., Rule, A.M., Geyh, A.S., Mihalic, J.N., Ramos-Bonilla, J.P., Han, I.K., Polyak, L.M., Breyse, P.N., Chillrud, S.N. Platinum group elements in size-segregated samples of ambient airborne particulate matter from U.S. cities. American Association for Aerosol Research Specialty Conference. San Diego, CA. March 22-26, 2010.
20. Datta, S., Rule, A.M., Chillrud, S.N., Mihalic, J.N., Ramos-Bonilla, J.P., Han, I.K., Polyak, L.M., Breyse, P.N., Geyh, A.S. Use of near-edge- X-ray Absorption Spectroscopy to Speciate Manganese in Airborne Particulate Matter from Six Cities in Continental USA. American Association for Aerosol Research Specialty Conference. San Diego, CA. March 22-26, 2010.
21. Han, I., Mihalic, J.N., Ramos-Bonilla, J.P., Rule, A.M., Polyak, L.M., Peng, R.D., Breyse, P.N., Geyh, A.S. Defining heterogeneity of ambient fine particles collected from eight US counties using principal component analysis. American Association for Aerosol Research Annual Conference. Portland, OR. October 25-29, 2010.
22. Han, I., Park, C.G., Lee, J.S., Eo, S.M., Chae, Y.Z., Geyh, A.S., Seasonal variations of volatile organic compounds and gas phase PAHs in Seoul, Korea. American Association for Aerosol Research Annual Conference, Orlando, FL. October 3-7, 2011.
23. Pollack, L., Mihalic, J.N., Prabhu, R., Agarwala, A., McGlothan, J., Stansfield, K., Han, I., Guilarte, T., Geyh, A., Impact of Mn exposure on cognitive function in a Murine model. International Society of Exposure Science, Baltimore, MD. October 23-27, 2011.
24. Han, I., Mihalic, J.N., Rule, A.M., Lee, J., Eo, S., Groopman, J.D., Geyh, A.S., Breyse, P.N., Validation of analytical and field sampling methods for personal air exposure to monocyclic aromatic amines. International Society of Exposure Science, Baltimore, MD. October 23-27, 2011.
25. Rule, A.M., Geyh, A.S., Mihalic, J.N., Ramos-Bonilla, J.P., Han, I., Polyak, L.M., Breyse, P.N., Using a Scanning Mobility Particle Sizer (SMPS) to evaluate temporal and regional differences in ultrafine PM in four counties across the continental US. International Society of Exposure Science, Baltimore, MD. October 23-27, 2011.
26. Han, I., Rule, A.M., Mihalic, J.N., Ramos-Bonilla, J.P., Polyak, L.M., Geyh, A.S., Breyse, P.N., Use of Aerodynamic Particulate Sizer to compare spatial and temporal variations in coarse PM mass in four US counties. International Society of Exposure Science, Baltimore, MD. October 23-27, 2011.
27. Rule, A.M., Polyak, L.M., Geyh, A.S., Mihalic, J.N., Ramos-Bonilla, J.P., Han, I., Breyse, P.N., Side by side comparison of two ultrafine particle counter used to estimate the effective density of an urban aerosol. International Society of Exposure Science, Baltimore, MD. October 23-27, 2011.

28. Han, I., Stock, T.H., De Los Reyes, J. M., Delclos, G.L., Associations between personal exposure to temperature and ambient temperature in middle-school children with asthma. International Society of Exposure Science, Seattle, WA. October 28- November 1, 2012.
29. Han, I., Guo, Y., Characterization of Size-Segregated Particulate Matter in Houston TX. American Association for Aerosol Research, Portland, OR, September 30 – October 4, 2013.
30. Han, I., Guo, Y., Afshar, M. Land Use Patterns and Size-Resolved Polycyclic Aromatic Hydrocarbons in an Urban Air. The Geological Society of America, Denver, CO, October 27-30, 2014
31. Han, I., Measurement of Monocyclic Aromatic Amines in an Urban Air. American Chemical Society National Meeting, Dallas, TX, March 16-20, 2014.
32. Guo, Y., Afshar, M., Han, I. Intra-urban Spatial and Temporal Comparison of Fine and Quasi-Ultrafine Particles in Houston, TX. International Conference on Environmental Science and Technology, Houston, TX, June 9 -13, 2014.