



BIBLIOGRAPHY

Research to Impact — Communications on Environmental Exposures and Human Health

NATIONAL REPORT PUBLICATIONS	3
SCIENTIFIC JOURNAL PUBLICATIONS	3
OPEN-SOURCE DATA SETS	8
CONFERENCE PROCEEDINGS	8
SUMMIT PROCEEDINGS	9
KEY TECHNICAL PRESENTATIONS	10
STANDARDS AND GUIDANCE DOCUMENTS	30
TECHNICAL BRIEFS, BULLETINS, APPLICATION NOTES, SCIENCE INSIGHTS, AND FACT SHEETS	34
OTHER PUBLICATIONS	39
TOOLKITS	41
LEARNING ASSETS	41
LANDING PAGES	42
E-LEARNING MODULES	42
E-LEARNING VIDEOS	43
SOCIAL MEDIA ASSETS	46
INTERNAL REPORTS (FOR RESEARCH PURPOSES ONLY)	49
E-NEWSLETTERS	50
PRESS RELEASES AND NEWS ALERTS	53
PODCASTS AND LIVE BROADCASTS	58
OTHER ARTICLES	59

NATIONAL REPORT PUBLICATIONS

National Academies of Sciences, Engineering, and Medicine. *The Chemistry of Fires at the Wildland-Urban Interface*. Washington, DC: The National Academies Press. 2022 <https://doi.org/10.17226/26460>.

SCIENTIFIC JOURNAL PUBLICATIONS

Harris, Debra D., Patrick S. Chepaitis, and Marilyn Black. "Evaluation and Development of a Novel Fire Barrier for Upholstered Furniture Enhancing Passive Fire Protection and the Mitigation of Chemical Exposure." *Fire and Materials*. December 12, 2025. <https://doi.org/10.1002/fam.70027>.

Sager, Talia, Maureen Meister, Xiaojia He, and Christa Wright. "Mitigating the Youth Vaping Epidemic Through Health Education." *NASN School Nurse* 40 (6): 305–12. November 21, 2025. <https://doi.org/10.1177/1942602X251387736>.

Wang, Yixiang, James J. Schauer, Yinping Zhang, Marilyn Black, Michael H. Bergin, Junfeng (Jim) Zhang, and Linchen He. 2025. "Mass Balance Model for Estimating Indoor and Outdoor Contributions to Residential PM_{2.5} and Indoor Source Composition Profiles." *Journal of Hazardous Materials* 498, 139886. October 15, 2025. <https://doi.org/10.1016/j.jhazmat.2025.139886>.

Sharma, Shaligram, Laura Crotty Alexander, Maureen Meister, Cassandra Ross, Joseph Hess, Kenneth Ray, Alexandra Noël, Jonathan Shannahan, and Christa Wright. "A Review of Popular Vaping Misconceptions: Redefining ENDS Safety and Usage Risks." *Inhalation Toxicology*, 1–15. October 15, 2025. <https://doi.org/10.1080/08958378.2025.2571918>.

Yang, Irene, Xiaojia He, Jennifer Jeon, Henry Claussen, Robert Arthur, Pam Cushenan, Scott R. Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "The Impact of Vaping Behavior on Functional Changes within the Subgingival Microbiome." *Scientific Reports* 15 (1): 34374. October 2, 2025. <https://doi.org/10.1038/s41598-025-17121-y>.

Wang, Xiangtian, Yan Lin, Xiaodong Liu, Emily A. Craig, Heather M. Stapleton, Michael H. Bergin, and Junfeng Jim Zhang. 2025. "Urinary Pyrene Carboxylic Acid as a Novel Exposure Biomarker of Woodsmoke." *Environmental Science & Technology Letters*, September 9, 2025. <https://doi.org/10.1021/acs.estlett.5c00587>.

Ranpara, Anand, William T. Goldsmith, Thomas P. Batchelor, Jingxin Wang, Robert Burns, Gary Casuccio, Kristin Bunker, Keith Rickabaugh, Mark Wilson, and Timothy R. Nurkiewicz. "Establishing a Novel Combustion Generator System to Simulate and Study Emissions from Diverse Applications." *Inhalation Toxicology*, 1–17. August 2025. <https://doi.org/10.1080/08958378.2025.2531115>.

Zhang, Qian, Mark Wilson, and Marilyn S. Black. "Impact of 3D Printing on Indoor Particulate Matter and Volatile Organic Compounds in Educational Environments." *Building and Environment* 282:113324. August 2025. <https://doi.org/10.1016/j.buildenv.2025.113324>.

Sharma, Shaligram, Maureen Meister, Xiaojia He, Mark Wilson, Qian Zhang, Jin-Ah Park, Travis Goldsmith, Cristi Bell-Huff, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Puffing Topography: A Tool to Evaluate Vaping Behavior and Exposure Risks." *Inhalation Toxicology*, 1–12. July 2025. <https://doi.org/10.1080/08958378.2025.2524728>.

Sharma, Shaligram, Maureen Meister, Scott Weaver, Judith Zelikoff, Cristi Bell-Huff, Marilyn Black, Jonathan Shannahan, Christa Wright. "The Beginning of ENDS (Electronic Nicotine Delivery Systems): Vaping Origins and Current Landscape." *Inhalation Toxicology*. March 2025. <https://doi.org/10.1080/08958378.2025.2479518>.

Joshi, Shriya, Chakravarthy Garlapati, Thi Nguyen, Shaligram Sharma, Darshan Shimoga Chandrashekar, Shristi Bhattarai, Sooryanarayana Varambally, Uma Krishnamurti, Xiaoxian Li, and Ritu Aneja. "C/EBP β Increases Tumor Aggressiveness by Enhancing KIFC1 Expression in Androgen Receptor Negative Triple Negative Breast Cancer." *Cell Communication and Signaling* 23 (1): 255. May 2025. <https://doi.org/10.1186/s12964-025-02243-7>.

- Solan, Megan E., Emma G. Goetzinger, Vanitha Sampath, and Jin-Ah Park. "Breathing Hazards: Perspective on the Adverse Health Effects of Organophosphate Flame Retardants." *Journal of Hazardous Materials Advances* 18, 100744. May 2025. <https://doi.org/10.1016/j.hazadv.2025.100744>.
- Meister, Maureen, Shaligram Sharma, Xiaojia He, Patrick S. Chepaitis, Taryn Waddey, Mark Wilson, Vinay Premnath, Judith Jeevarajan, Marilyn Black, and Christa Wright. "Evaluating Inhalation Risks and Toxicological Impacts of Lithium-Ion Battery Thermal Runaway Emissions." *Environment International* 199, 109466. April 2025. <https://doi.org/10.1016/j.envint.2025.109466>.
- He, Xiaojia, Maureen Meister, Jennifer Jeon, Saeed Alqahtani, Pam Cushenan, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Unveiling Oral Health Impacts of Vaping in African Americans through Untargeted Metabolomics and Proteomics." *Environment & Health*, April 2025. <https://doi.org/10.1021/envhealth.4c00276>.
- Sharma, Shaligram, Maureen Meister, David Christiani, Qian Zhang, Mark Wilson, Travis Goldsmith, Mark Olfert, Anand Ranpara, Cristi Bell-Huff, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Deconstructing ENDS Aerosols: Generation and Characterization Methods." *Inhalation Toxicology*, 1–13. March 2025. <https://doi.org/10.1080/08958378.2025.2481434>.
- Sharma, Shaligram, Maureen Meister, Scott Weaver, Judith Zelikoff, Cristi Bell-Huff, Marilyn Black, Jonathan Shannahan, and Christa Wright. "The Beginning of ENDS (Electronic Nicotine Delivery Systems): Origins, Trends, and Regulatory Considerations." *Inhalation Toxicology*, 1–9. March 2025. <https://doi.org/10.1080/08958378.2025.2479518>.
- He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Qian Zhang, Patrick Chepaitis, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Multi-Omics Assessment of Puff Volume-Mediated Salivary Biomarkers of Metal Exposure and Oxidative Injury Associated with Electronic Nicotine Delivery Systems." *Environmental Health Perspectives* 133 (1): 017005. January 2025. <https://doi.org/10.1289/EHP14321>.
- Chepaitis, Patrick S., Qian Zhang, David Kalafut, Taryn Waddey, Mark J. Wilson, and Marilyn Black. "The Effect of Moderate Temperature Rise on Emitted Chemicals from Modern Building Materials." *Buildings* 14 (11). November 2024. <https://doi.org/10.3390/buildings14113683>.
- Wang, Yixiang, James J. Schauer, Yinping Zhang, Marilyn Black, Michael H. Bergin, Junfeng Zhang, and Linchen He. "Impacts of Portable Air Purifiers on the Oxidative Potential and Sources of Organic Matter in Indoor PM2.5." *ACS ES&T Air* 1 (11): 1453–62. November 2024. <https://doi.org/10.1021/acsestair.4c00187>.
- Wenhao, Zhang, Charles A. Miller, and Mark J. Wilson. "Assessment of the In Vitro Phosphatidylinositol Glycan Class A (PIG-A) Gene Mutation Assay Using Human TK6 and Mouse Hepa1c1c7 Cell Lines." *Journal of Xenobiotics* 14 (3): 1293–1311. September 2024. <https://doi.org/10.3390/jox14030073>.
- Jeon, Jennifer, Xiaojia He, Akshada Shinde, Maureen Meister, Lillie Barnett, Qian Zhang, Marilyn Black, Jonathan Shannahan, and Christa Wright. "The Role of Puff Volume in Vaping Emissions, Inhalation Risks, and Metabolic Perturbations: A Pilot Study." *Scientific Reports* 14 (1). August 2024. <https://doi.org/10.1038/s41598-024-69985-1>.
- He, Linchen, Charles J. Weschler, Glenn Morrison, Feng Li, Yinping Zhang, Michael H. Bergin, Marilyn Black, and Junfeng Jim Zhang. "Synergistic Effects of Ozone Reaction Products and Fine Particulate Matter on Respiratory Pathophysiology in Children with Asthma." *ACS EST Air* 1 (8): 918–26. August 2024. <https://doi.org/10.1021/acsestair.4c00080>.
- Solan, Megan E., and Jin-Ah Park. "Per- and Poly-Fluoroalkyl Substances (PFAS) Effects on Lung Health: A Perspective on the Current Literature and Future Recommendations." *Frontiers in Toxicology* 6. July 2024. <https://doi.org/10.3389/ftox.2024.1423449>.

- Barnett, Lillie M. A., Qian Zhang, Shaligram Sharma, Saeed Alqahtani, Jonathan Shannahan, Marilyn Black, and Christa Wright. "3D Printer Emissions Elicit Filament-Specific and Dose-Dependent Metabolic and Genotoxic Effects in Human Airway Epithelial Cells." *Frontiers in Public Health*. July 2024. <https://doi.org/10.3389/fpubh.2024.1408842>.
- Calhoun, Zachary D., Marilyn S. Black, Michael Bergin, and David Carlson. "Refining Citizen Climate Science: Addressing Preferential Sampling for Improved Estimates of Urban Heat." *Environmental Science and Technology Letters*. June 2024. <https://doi.org/10.1021/acs.estlett.4c00296>.
- King, Adrienne Lester, Cristi Bell-Huff, Collins Airhihenbuwa, Susan Ogletree, and Christa Wright. 2024. "The EMPOWER Program: A History and Guide for Increasing Diversity Using Integrated Research and Education." *Advances in Physiology Education*. June 2024. <https://doi.org/10.1152/advan.00123.2023>.
- He, Linchen, Christina Norris, Kimberly Palaguachi-Lopez, Karoline Barkjohn, Zhen Li, Feng Li, Yinping Zhang, Marilyn Black, Michael H. Bergin, and Junfeng Zhang. 2024. "Nasal Oxidative Stress Mediating the Effects of Colder Temperature Exposure on Pediatric Asthma Symptoms." *Pediatric Research* 96 (4): 1–7. April 2024. <https://doi.org/10.1038/s41390-024-03196-2>.
- Lin, Yan, Xiangtian T. Wang, Ruoxue X. Chen, Tenley Weil, Yihui H. Ge, Heather M. Stapleton, Michael H. Bergin, and Junfeng F. Zhang. "Arachidonic Acid Metabolites in Self-Collected Biospecimens Following Campfire Exposure: Exploring Non-Invasive Biomarkers of Wildfire Health Effects." *Environmental Science & Technology Letters*. 11 (3): 201–7. February 2024. <https://doi.org/10.1021/acs.estlett.3c00923>.
- He, Xiaojia, Lillie Marie Barnett, Jennifer Jeon, Qian Zhang, Saeed Alqahtani, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Real-Time Exposure to 3D-Printing Emissions Elicits Metabolic and Pro-Inflammatory Responses in Human Airway Epithelial Cells." *Toxics* 12 (1): 67. January 2024. <https://doi.org/10.3390/toxics12010067>.
- Meister, Maureen L., and Rafaela G. Feresin. "Blackberry Consumption Protects against E-Cigarette-Induced Vascular Oxidative Stress in Mice." *Food & Function* 14 (24): 10709–30. December 2023. <https://doi.org/10.1039/D3FO02217J>.
- Qian Zhang, Marilyn S. Black. "Exposure Hazards of Particles and Volatile Organic Compounds Emitted from Material Extrusion 3D Printing: Consolidation of Chamber Study Data." *Environment International* 182. December 2023. <https://doi.org/10.1016/j.envint.2023.108316>.
- He, Linchen, Shoshana Evans, Christina Norris, Karoline Barkjohn, Xiaoxing Cui, Zhen Li, Xiaojian Zhou, et al. "Associations between Personal Apparent Temperature Exposures and Asthma Symptoms in Children with Asthma." *PLOS One* 18 (11). November 2023. <https://doi.org/10.1371/journal.pone.0293603>.
- He, Xiaojia, Zachery R Jarrell, Matthew Ryan Smith, ViLinh Thi Ly, Xin Hu, Viranuj Sueblinvong, Yongliang Liang, Michael Orr, Young-Mi Go, and Dean P Jones. "Low-Dose Vanadium Pentoxide Perturbed Lung Metabolism Associated with Inflammation and Fibrosis Signaling in Male Animal and in Vitro Models." *American Journal of Physiology-Lung Cellular and Molecular Physiology* 325: L215–L232. August 2023. <https://doi.org/10.1152/ajplung.00303.2022>.
- Cui, Xiaoxing, Xiaojian Zhou, Zhen Li, Yanbo Teng, Lili Lin, Qian Wang, Jianguo Hong, Yan Lin, Marilyn S Black, and Michael H Bergin. "Association between Childhood Asthma Control Test Scores and Lung Pathophysiologic Indicators in Longitudinal Measurements." *Journal of Thoracic Disease* 15 (8): 4207. July 2023. <https://doi.org/10.21037/jtd-22-1383>.
- He, Linchen, Charles J. Weschler, Yinping Zhang, Feng Li, Michael H. Bergin, Marilyn Black, and J.J. Zhang. "Ozone Reaction Products Associated with Biomarkers of Cardiorespiratory Pathophysiology." *American Journal of Respiratory and Critical Care Medicine* 207 (9): 1243–46. May 2023. <https://doi.org/10.1164/rccm.202212-2203LE>.
- Zhang, Qian, Rodney J. Weber, Todd P. Luxton, Derek M. Peloquin, Eric J. Baumann, and Marilyn S. Black. "Metal Compositions of Particle Emissions from Material Extrusion 3D Printing: Emission Sources and Indoor Exposure Modeling." *Science of the Total Environment* 860, 160512. February 2023. <https://doi.org/10.1016/j.scitotenv.2022.160512>.

- Jeon, Jennifer, Qian Zhang, Patrick S. Chepaitis, Roby Greenwald, Marilyn Black, and Christa Wright. "Toxicological Assessment of Particulate and Metal Hazards Associated with Vaping Frequency and Device Age." *Toxics* 11 (2): 155. February 2023. <https://doi.org/10.3390/toxics11020155>.
- Zhang, Qian, Jennifer Jeon, Travis Goldsmith, Marilyn Black, Roby Greenwald, and Christa Wright. "Characterization of an Electronic Nicotine Delivery System (ENDS) Aerosol Generation Platform to Determine Exposure Risks." *Toxics* 11 (2), 99. January 2023. <https://doi.org/10.3390/toxics11020099>.
- Harries, Megan E, David T. Allen, Olorunfemi Adetona, Michelle L. Bell, Marilyn S Black, Jefferey L. Burgess, Frederick L. Dryer, Amara L. Holder, Ana Mascareñas, and Fernando L. Rosario-Ortiz. "A Research Agenda for the Chemistry of Fires at the Wildland–Urban Interface: A National Academies Consensus Report." *Environmental Science & Technology* 56 (22): 15189–91. October 2022. <https://doi.org/10.1021/acs.est.2c07015>.
- Norris, Christina L., Ross Edwards, Chinmay Ghoroi, James J. Schauer, Marilyn S. Black, and Michael H. Bergin. "A Pilot Study to Quantify Volatile Organic Compounds and Their Sources Inside and Outside Homes in Urban India in Summer and Winter during Normal Daily Activities." *Environments* 9 (7): 75. June 2022. <https://doi.org/10.3390/environments9070075>.
- He, Linchen, Christina Norris, Xiaoxing Cui, Zhen Li, Karoline K. Barkjohn, Yanbo Teng, Lin Fang, et al. "Oral Cavity Response to Air Pollutant Exposure and Association with Pulmonary Inflammation and Symptoms in Asthmatic Children." *Environmental Research* 206, 112275. April 2022. <https://doi.org/10.1016/j.envres.2021.112275>.
- Yang, Irene, Jeannie Rodriguez, Christa Young Wright, and Yi-Juan Hu. "Oral Microbiome of Electronic Cigarette Users: A Cross-sectional Exploration." *Oral Diseases* 29 (4): 1875–84. March 2022. <https://doi.org/10.1111/odi.14186>.
- Zhang, Qian, Aika Y Davis, and Marilyn S. Black. "Emissions and Chemical Exposure Potentials from Stereolithography Vat Polymerization 3D Printing and Post-Processing Units." *ACS Chemical Health & Safety* 29 (2): 184–91. March 2022. <https://doi.org/10.1021/acs.chas.2c00002>.
- Davis, Aika, P. Barry Ryan, Jordan A. Cohen, Debra Harris, and Marilyn Black. "Chemical Exposures from Upholstered Furniture with Various Flame Retardant Technologies." *Indoor Air* 31 (5): 1473–83. September 2021. <https://doi.org/10.1111/ina.12805>.
- He, Linchen, Christina Norris, Xiaoxing Cui, Zhen Li, Karoline K. Barkjohn, Yanbo Teng, Lin Fang, et al. 2021. "Role of Endogenous Melatonin in Pathophysiologic and Oxidative Stress Responses to Personal Air Pollutant Exposures in Asthmatic Children." *Science of the Total Environment* 773, 145709. June 2021. <https://doi.org/10.1016/j.scitotenv.2021.145709>.
- He, Linchen, Christina Norris, Xiaoxing Cui, Zhen Li, Karoline K. Barkjohn, Collin Brehmer, Yanbo Teng, et al. "Personal Exposure to PM_{2.5} Oxidative Potential in Association with Pulmonary Pathophysiologic Outcomes in Children with Asthma." *Environmental Science & Technology* 55 (5): 3101–11. March 2021. <https://doi.org/10.1021/acs.est.0c06114>.
- Harris, Debra, Aika Davis, Peter Barry Ryan, Jordan Cohen, Pravinray Gandhi, David Dubiel, and Marilyn Black. "Chemical Exposure and Flammability Risks of Upholstered Furniture." *Fire and Materials* 45 (1): 167–80. January 2021. <https://doi.org/10.1002/fam.2907>.
- Barkjohn, Karoline K., Christina Norris, Xiaoxing Cui, Lin Fang, Tongshu Zheng, James J. Schauer, Zhen Li, et al. "Real-Time Measurements of PM_{2.5} and Ozone to Assess the Effectiveness of Residential Indoor Air Filtration in Shanghai Homes." *Indoor Air* 31 (1): 74–87. January 2021. <https://doi.org/10.1111/ina.12716>.
- Barkjohn, Karoline K., Christina Norris, Xiaoxing Cui, Lin Fang, Linchen He, James J. Schauer, Yinping Zhang, Marilyn Black, Junfeng Zhang, and Michael H. Bergin. "Children's Microenvironmental Exposure to PM_{2.5} and Ozone and the Impact of Indoor Air Filtration." *Journal of Exposure Science & Environmental Epidemiology* 30 (6): 971–80. November 2020. <https://doi.org/10.1038/s41370-020-00266-5>.

- He, Linchen, Xiaoxing Cui, Zhen Li, Yanbo Teng, Karoline K. Barkjohn, Christina Norris, Lin Fang, et al. "Malondialdehyde in Nasal Fluid: A Biomarker for Monitoring Asthma Control in Relation to Air Pollution Exposure." *Environmental Science & Technology* 54 (18): 11405–13. September 2020. <https://doi.org/10.1021/acs.est.0c02558>.
- Cui, Xiaoxing, Zhen Li, Yanbo Teng, Karoline K. Barkjohn, Christina L. Norris, Lin Fang, Gina N. Daniel, et al. "Association Between Bedroom Particulate Matter Filtration and Changes in Airway Pathophysiology in Children with Asthma." *JAMA Pediatrics* 174 (6): 533–42. June 2020. <https://doi.org/10.1001/jamapediatrics.2020.0140>.
- He, Linchen, Zhen Li, Yanbo Teng, Xiaoxing Cui, Karoline K. Barkjohn, Christina Norris, Lin Fang, et al. "Associations of Personal Exposure to Air Pollutants with Airway Mechanics in Children with Asthma." *Environment International* 138, 105647. May 2020. <https://doi.org/10.1016/j.envint.2020.105647>.
- Brehmer, Collin, Christina Norris, Karoline K. Barkjohn, Mike H. Bergin, Junfeng Zhang, Xiaoxing Cui, Yanbo Teng, et al. "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* 181, 108919. February 2020. <https://doi.org/10.1016/j.envres.2019.108919>.
- Liu, Meichen, Karoline K. Barkjohn, Christina Norris, James J. Schauer, Junfeng Zhang, Yinping Zhang, Min Hu, and Michael Bergin. "Using Low-Cost Sensors to Monitor Indoor, Outdoor, and Personal Ozone Concentrations in Beijing, China." *Environmental Science-Processes & Impacts* 22 (1): 131–43. January 2020. <https://doi.org/10.1039/c9em00377k>.
- Barkjohn, Karoline K., Michael H. Bergin, Christina Norris, James J. Schauer, Yinping Zhang, Marilyn Black, Min Hu, and Junfeng Zhang. "Using Low-Cost Sensors to Quantify the Effects of Air Filtration on Indoor and Personal Exposure Relevant PM_{2.5} Concentrations in Beijing, China." *Aerosol and Air Quality Research* 20 (2): 297–313. January 2020. <https://doi.org/10.4209/aaqr.2018.11.0394>.
- Zhang, Qian, Michal Pardo, Yinon Rudich, Ifat Kaplan-Ashiri, Jenny P. S. Wong, Aika Y. Davis, Marilyn S. Black, and Rodney J. Weber. "Chemical Composition and Toxicity of Particles Emitted from a Consumer-Level 3D Printer Using Various Materials." *Environmental Science & Technology* 53 (20): 12054–61. October 2019. <https://doi.org/10.1021/acs.est.9b04168>.
- Brehmer, Collin, Christina Norris, Karoline K. Barkjohn, Mike H. Bergin, Junfeng Zhang, Xiaoxing Cui, Yinping Zhang, et al. "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* 253, 190–98. October 2019. <https://doi.org/10.1016/j.envpol.2019.07.003>.
- Norris, Christina, Lin Fang, Karoline K. Barkjohn, David Carlson, Yinping Zhang, Jinhan Mo, Zhen Li, et al. "Sources of Volatile Organic Compounds in Suburban Homes in Shanghai, China, and the Impact of Air Filtration on Compound Concentrations." *Chemosphere* 231, 256–68. September 2019. <https://doi.org/10.1016/j.chemosphere.2019.05.059>.
- Davis, Aika Y., Qian Zhang, Jenny P. S. Wong, Rodney J. Weber, and Marilyn S. Black. "Characterization of Volatile Organic Compound Emissions from Consumer Level Material Extrusion 3D Printers." *Building and Environment* 160, 106209. August 2019. <https://doi.org/10.1016/j.buildenv.2019.106209>.
- Fang, Lin, Christina Norris, Karoline Johnson, Xiaoxing Cui, Jiaqi Sun, Yanbo Teng, Enze Tian, et al. "Toxic Volatile Organic Compounds in 20 Homes in Shanghai: Concentrations, Inhalation Health Risks, and the Impacts of Household Air Cleaning." *Building and Environment* 157, 309–18. June 2019. <https://doi.org/10.1016/j.buildenv.2019.04.047>.
- Zhan, Ying, Karoline Johnson, Christina Norris, Martin M. Shafer, Michael H. Bergin, Yinping Zhang, Junfeng Zhang, and James J. Schauer. "The Influence of Air Cleaners on Indoor Particulate Matter Components and Oxidative Potential in Residential Households in Beijing." *Science of the Total Environment* 626, 507–18. June 2018. <https://doi.org/10.1016/j.scitotenv.2018.01.024>.

OPEN-SOURCE DATA SETS

Chemical Insights Research Institute. "Research Data on Volatile Organic Compound Emissions from E-Cigarettes." UL Research Institutes. June 9, 2025. <https://doi.org/10.60752/102376.29137658.v1>.

Chemical Insights Research Institute. "Research Data on Volatile Organic Compounds Detected in Indoor and Outdoor Air of Residential Environments in China and India." UL Research Institutes. June 9, 2025. <https://doi.org/10.60752/102376.29137619.v1>.

Chemical Insights Research Institute. "Research Data on Volatile Organic Compounds Detected in Indoor and Outdoor Air of Residential Environments in the US." UL Research Institutes. June 9, 2025. <https://doi.org/10.60752/102376.29137679.v1>.

Chemical Insights Research Institute. "Research Data on Volatile Organic Compounds Emitted from Upholstered Furniture." UL Research Institutes. June 9, 2025. <https://doi.org/10.60752/102376.29137580.v1>.

Chemical Insights Research Institute. "VOC Source Data." UL Research Institutes. June 9, 2025. <https://chemicalinsights.ul.org/data-portal/voc-source-data/?product=3dp>.

Chemical Insights Research Institute. "3D Printing Data." UL Research Institutes. December 6, 2023. <https://chemicalinsights.ul.org/data-portal/3d-printing-data/>.

CONFERENCE PROCEEDINGS

Zhang, Qian, Mark Wilson, and Marilyn Black. 2025. "Assessment of Chemical Hazards Associated with 3D Printing." In *ASHRAE Transactions*. 2025 ASHRAE Annual Conference. Phoenix, AZ, June 22, 2025.

Chepaitis, Patrick, Qian Zhang, David Kalafut, Taryn Waddey, Mark Wilson, and Marilyn Black. "Climate Change and Building Material Chemical Emissions." In *A&WMA Proceedings*. Air & Waste Management Association (A&WMA) Annual Conference. Minneapolis, MN, June 10, 2025.

Wright, Christa. "The Unknowns of Vaping: Oxidative Stress, Toxicity, and DNA Damage Across the Device Lifetime." In *The Toxicologist: Supplement to Toxicological Sciences*, Society of Toxicology (SOT) 61st Annual Meeting and ToxExpo. San Diego, CA, March 2022. <https://www.toxicology.org/pubs/docs/Tox/2022Tox.pdf>.

Brehmer, Collin, Christina Norris, Karoline K. Barkjohn, Mike H. Bergin, Junfeng Zhang, Xiaoxing Cui, Yanbo Teng, Yinping Zhang, Marilyn Black, Zhen Li, and James J. Schauer. "The Influence of Indoor Air Cleaners on the Oxidative Potential and Sources of Metals in Indoor, Outdoor, and Personal Exposure of School Aged Children to PM_{2.5} in Suburban Shanghai, China." In *Indoor Air 2020 Conference Proceedings*, 16th International Conference of Indoor Air Quality and Climate. Virtual, 2020. https://www.isiaq.org/conference_proceedings.php.

Davis, Aika, Jordan Cohen, P. Barry Ryan, Debra Harris, and Marilyn Black. "An Evaluation of Flame Retardant Exposure Routes from Upholstered Furniture." In *Indoor Air 2020 Conference Proceedings*, 16th International Conference of Indoor Air Quality and Climate. Virtual, 2020. https://www.isiaq.org/conference_proceedings.php.

Norris, Christina, Michael H. Bergin, Yinping Zhang, Ross Edwards, Chinmay Ghoroi, Karoline K. Barkjohn, Junfeng Zhang, Marilyn Black, and James J. Schauer. "Quantifying Volatile Organic Compounds and Their Sources in Residences in Ahmedabad and Gandhinagar, India, and in Suburban Shanghai, China." In *Indoor Air 2020 Conference Proceedings*, 16th International Conference of Indoor Air Quality and Climate. Virtual, 2020. https://www.isiaq.org/conference_proceedings.php.

Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Particle and Volatile Organic Compound Emissions from 3D Printers and Their Potential Exposure Risks." In *Indoor Air 2020 Conference Proceedings*, 16th International Conference of Indoor Air Quality and Climate. Virtual, 2020. https://www.isiaq.org/conference_proceedings.php.

Zhang, Qian. "Emissions from Consumer-Level 3D Printers." In *The Toxicologist: Supplement to Toxicological Sciences*, Society of Toxicology (SOT) 59th Annual Meeting and ToxExpo. Virtual, 2020. <https://www.toxicology.org/pubs/docs/Tox/2020Tox.pdf>.

- Davis, Aika, Debra Harris, and Marilyn Black. "A Study of Chemical Exposure from Consumer Products Used in Residential Environments." In *ASHRAE Transactions*, American Society of Heating, Refrigerating and Air-Conditioning Engineers 2019 Annual Conference. Kansas City, MO, 2019. <https://www.ashrae.org/news/esociety/ashrae-2019-annual-meeting-conference-proceedings-available>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Particle and Chemical Emissions from 3D Printers and Their Potential Health Impacts." In *ASHRAE Transactions*, American Society of Heating, Refrigerating and Air-Conditioning Engineers 2019 Annual Conference. Kansas City, MO, 2019. <https://www.ashrae.org/news/esociety/ashrae-2019-annual-meeting-conference-proceedings-available>.
- Fang, Lin. "Characteristics and Inhalation Cancer Risks Assessment of Exposure to VOCs in 20 Asthmatic Children's Homes in Shanghai." In *Indoor Air 2018 Conference Proceedings*, 15th International Conference of Indoor Air Quality and Climate. Philadelphia, PA, 2018. https://www.isiaq.org/ia_2018_proceedings_page.php.
- Weber, Rodney, Qian Zhang, Aika Davis, and Marilyn Black. "Emissions from Consumer Fused Deposition Modeling 3D Printers and Their Potential Health Impact." In *Indoor Air 2018 Conference Proceedings*, 15th International Conference of Indoor Air Quality and Climate. Philadelphia, PA, 2018. https://www.isiaq.org/ia_2018_proceedings_page.php.
- Weber, Rodney, Qian Zhang, Jenny Wong, Marilyn Black, and Aika Davis. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." In *Printing for Fabrication 2016*, 32nd International Conference on Digital Printing Technologies (NIP). Manchester, UK, 2016. <http://toc.proceedings.com/34567webtoc.pdf>.
- Davis, Aika, Marilyn Black, Qian Zhang, Jenny P. S. Wong, and Rodney Weber. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." In *Indoor Air 2016 Conference Proceedings*, 14th International Conference of Indoor Air Quality and Climate. Ghent, Belgium, 2016. <https://www.isiaq.org/docs/Proceedings.pdf>.
- Davis, Aika, Marilyn Black, Qian Zhang, Jenny P. S. Wong, and Rodney Weber. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." In *ASHRAE Transactions*, American Society of Heating, Refrigerating and Air-Conditioning Engineers 2016 Annual Conference. St. Louis, MO, 2016. https://www.techstreet.com/ashrae/standards/ashrae-transactions-2016-annual-conference-st-louis-vol-122-part-2?product_id=1937126.

SUMMIT PROCEEDINGS

- UL Research Institutes' Chemical Insights. *Wildfires & the WUI: Strengthening Community Resilience*. Summary Statement. July 31, 2025. <https://doi.org/10.60752/102376.29716361.v2>
- UL Research Institutes' Chemical Insights. *2024 ULRI Annual Research Symposium Proceedings*, Atlanta, GA, February 20, 2025. <https://doi.org/10.60752/102376.28360808.v2>.
- Underwriters Laboratories Inc. *Summary Statement: The CIRI + USGBC Building Resilience for Health Summit*. Atlanta, GA, August 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/10/CIRI-Summit-Summary-of-Proceedings-102623-Final.pdf>.
- Underwriters Laboratories Inc. *Proceedings of the Future of Fire Safety: Exploring the Intersection of Wildfires and Human Health, a Symposium Presented at the Society of Toxicology (SOT) 62nd Annual Meeting and ToxExpo*. Nashville, TN, March 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/06/Chemical-Insights_2023-SOT-Symposium-Proceedings_Fin.pdf.
- Underwriters Laboratories Inc. *A Summary: Managing Fire and Chemical Exposure Risks of Residential Upholstered Furniture*. 4th Furniture Flammability and Human Health Summit. Virtual, April 2021. <https://chemicalinsights.ul.org/wp-content/uploads/FFHH-Virtual-Summit-Summary-05.06.21-Final.pdf>.

Underwriters Laboratories Inc. *Proceedings of the Furniture Flammability and Human Health Summit*. 3rd Furniture Flammability and Human Health Summit. Atlanta, GA, December 2017. <https://chemicalinsights.ul.org/wp-content/uploads/2019/02/2017-FF-Summit-Proceedings.pdf>.

Underwriters Laboratories Inc. *Proceedings of the Safety Science of 3D Printing Summit*. 1st 3D Printing and Human Health Summit. Atlanta, GA, February 2017. https://chemicalinsights.ul.org/wp-content/uploads/2017/06/3DP_Proceedings_Final.pdf.

Underwriters Laboratories Inc. *Proceedings of the Furniture Flammability and Human Health Summit*. 2nd Furniture Flammability and Human Health Summit. Atlanta, GA, May 2014. <https://chemicalinsights.ul.org/wp-content/uploads/2017/06/Doc-4-Proceedings-of-the-Furniture-Flammability-and-Human-Health-Summit-held-May-20-22-2014.pdf>.

Underwriters Laboratories Inc. *A Read-Out of Furniture Flammability and Human Health*. 1st Furniture Flammability and Human Health Summit. Atlanta, GA, April 2013. https://chemicalinsights.ul.org/wp-content/uploads/2013_FFHH_Summit_Summary.pdf.

KEY TECHNICAL PRESENTATIONS

Meister, Maureen. "Toxicology Meets Nutrition: Implications for Human Health." Presented at the GSU Nutrition Lecture Series, Virtual, December 12, 2025.

Wambaugh, John, and Chelsea Weitekamp. "In Vitro-In Vivo Extrapolation of New Approach Methods and Inhalation Toxicity." Presented at the A&WMA Air Information Exchange, Virtual, December 11, 2025.

Thomas, Russell. "Advances in Measuring Toxicity and Exposure Towards Sustainability in the Chemical Economy." Presented at the IEEE Metrology for Sustainability 2025, Benevento, Italy, December 4, 2025.

Wambaugh, John. "Exposome-Scale Exposure Reconstruction." Presented at the OpenTox Virtual Conference, Virtual, December 2, 2025.

He, Xiaojia. "From Curiosity to Career-Mapping Your STEM Journey." Presented at the Institute of Physical Chemistry, Polish Academy of Sciences, Virtual, November 27, 2025.

Thomas, Russell. "Setting Performance Expectations for New Approach Methods in Toxicity Testing: Moving from Intuition to Hard Data." Presented at the Alliance for Risk Assessment (ARA): Beyond Science and Decision Workshop XV, Virtual, November 20, 2025.

Connelly, Sarah. "Learn About Policy Fellowships." Presented at the UAB Science Policy Advocacy Network Panel, Virtual, November 19, 2025.

Chepaitis, Patrick, Taryn Waddey, and Fatima Ahmad. "A Single Particle ICP-MS Method for Elemental Characterization of Airborne Environmental Particulates." Presented at the Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR, November 19, 2025.

Choo, Cynthia, David Kalafut, Marilyn Black, Timothy Nurkiewicz, Anand Ranpara, William Goldsmith, Thomas Batchelor, and Mark Wilson. "Characterization of Fire Ash from Wildland Urban Interface (WUI) Fire and Multi-Route Exposure Assessment." Presented at the Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR, November 19, 2025.

Kalafut, David, Patrick Chepaitis, Junfeng (Jim) Zhang, Mark Wilson, and Sumeet Saksena. "Wildland-Urban Interface Fires and Spatial Distribution of Soil Heavy Metals in the Aftermath of the Lahaina Fire." Presented at the Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR, November 19, 2025.

Zhang, Qian, and Mark Wilson. 2025. "Assessment of Particle and Chemical Exposure Hazards from 3D Printing." Presented at the Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR, November 19, 2025.

- Sharma, Shaligram, Maureen Meister, Haylee Young, and Christa Wright. "Per- and Polyfluoroalkyl Substances (PFAS) Toxicity and DNA Repair in Human Melanocytes from Diverse Racial Groups." Presented at the Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR, November 18, 2025.
- Wambaugh, John. "Tools for Applying Computational Toxicology and Exposure Science." Presented at the UNC ENVR730 (Computation Toxicology and Exposure Science), Chapel Hill, NC, November 5, 2025.
- Wright, Christa. "Managing Highly Technical Teams." Presented at the Waves of Change - Black Engineer of the Year Award, Baltimore, MD, October 24, 2025.
- Wright, Christa. "Thermal Runaway Emission Exposures and Adverse Respiratory Outcomes: The Role of Lithium-Ion Battery Chemistry." Presented at the Mechanisms of Environmental and Lung Diseases (MELD) Seminar Series, Boston, MA, October 21, 2025.
- Zhang, Qian, Maureen Meister, Xiaojia He, Joe Hess, Mark Wilson, and Christa Wright. 2025. "Characterization of Aerosol Emissions from Firsthand and Secondhand Vaping." Presented at the American Association for Aerosol Research 43rd Annual Conference, Buffalo, NY, October 15.
- Bell-Huff, Cristi, and Sarah Connelly. "At Your SERVICE: Introducing New Vaping Guidance for Managing Vaping on Campus." CSHEMA Webinar, Virtual, October 15, 2025.
- Choo, Cynthia. "Volatile Organic Compounds Profile from Laboratory Scale Combustion Emissions of Regionally Relevant Wood Types and Synthetic Building Materials." Presented at the American Association for Aerosol Research 43rd Annual Conference, Buffalo, NY, October 14, 2025.
- Greenwald, Roby, Yu Jung Lin, Bisan Hammid, Nadia Alhadidi, Patrick Chepaitis, and Donghai Liang. "Salivary Metabolomics and Air Pollution Exposure in Toddlers: Black Carbon and PM2.5 Are Associated with Pathways Related to Inflammatory Regulation." Presented at the American Association for Aerosol Research 43rd Annual Conference (AAAR), Buffalo, NY, October 14, 2025.
- He, Xiaojia. "SESOT Regional Fall Meeting Career Panel." Presented at the Southeastern Regional Chapter of the Society of Toxicology, Clemson University, October 10, 2025.
- Sharma, Shaligram. "Adverse Respiratory Health Outcomes Associated with Inhalation of Thermal Runaway Emissions." Presented at the TRIP Summit, Chicago, IL, October 9, 2025.
- Wang, Yixang, James Schauer, Marilyn Black, Michael Bergin, Jungfeng Zhang, and Linchen He. "Mass Balance Model for Estimating Indoor and Outdoor Contributions to Residential PM2.5 and Indoor-Generated PM2.5 Composition Profile." Presented at the American Association for Aerosol Research 43rd Annual Conference, Buffalo, NY, October 14, 2025.
- Wilson, Mark. "Environmental and Occupational Health Through the Lens of a Not-For-Profit Research Institute." Presentation presented at the NIOSH Training Center at University of Alabama Birmingham, Virtual, October 6, 2025.
- Wright, Christa. "Managing Highly Technical Teams." Presented at the Waves of Change - Black Engineer of the Year Award, Baltimore, MD, October 24, 2025.
- Wright, Christa. "Thermal Runaway Emission Exposures and Adverse Respiratory Outcomes: The Role of Lithium-Ion Battery Chemistry." Presented at the Mechanisms of Environmental and Lung Diseases (MELD) Seminar Series, Boston, MA, October 21, 2025.
- Zhang, Qian, Maureen Meister, Xiaojia He, Joe Hess, Mark Wilson, and Christa Wright. 2025. "Characterization of Aerosol Emissions from Firsthand and Secondhand Vaping." Presented at the American Association for Aerosol Research 43rd Annual Conference, Buffalo, NY, October 15, 2025.

- Bell-Huff, Cristi, and Holley Henderson. "Beyond the Flames: Protecting Buildings & Occupants from Wildfire & WUI Risks." Presented at the GBES Webinar, Virtual, September 24, 2025.
- Wright, Christa, Sheila Young Mercado, and Donna Finale. "No Smoke, Just Facts." Presented at the Wellness on the Yard Event, Morehouse School of Medicine, September 23, 2025.
- Bell-Huff, Cristi, Holley Henderson, and Laurie Gilmer. "Beyond The Flames: Protecting Buildings & Occupants from Wildfire & WUI Risks." Presented at the IFMA World Workplace, Minneapolis, MN, September 18, 2025.
- Wright, Christa. "Conversations That We Are Not Having." Presented at the State of Black Health Biennial Conference, Charlotte, NC, September 14, 2025.
- Wright, Christa. "At Your SERVICE: Introducing New Guidance on Vaping and Its Impacts on Human Health." Presented at The National Conference on Tobacco or Health (NCTOH), Chicago, IL, August 27, 2025.
- Choo, Cynthia. "Laboratory Scale Wildland-Urban Interface (WUI) Fire: Multi-Route Human Exposure Risk Models." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 20, 2025.
- He, Xiaojia. "E-Cigarette Use and Emissions: Uncovering the Hidden Link to Periodontal Disease." Presented at ACS Fall 2025, Washington, DC, August 20, 2025.
- Liao, Jiawen, Ruoxue Chen, Yan Lin, Jessilyn Dunn, Katherine Tian, Chenyu Qiu, Wu Chen, et al. "Impact of Wildfires on Physical Activity, Sleep, and Physiological Stress of Older Adults: A Cohort Study During 2025 Eaton Fire in Los Angeles." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 20, 2025.
- Chen, Ruoxue, Jiawen Liao, Chenyu Qiu, Wu Chen, Yihui Ge, Zhenchun Yang, Frank Gilliland, et al. "Effectiveness of Portable HEPA Filtration in Reducing Residential Indoor PM2.5 Levels During the Palisades/Eaton Fire in Los Angeles." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 19, 2025.
- Hess, Joe, Shaligram Sharma, and Christa Wright. "Decoding Secondhand Vaping Emissions to Unravel the Chemical Sign." Presented at the ACS Fall 2025, Washington, DC, August 19, 2025.
- Sharma, Shaligram, and Christa Wright. "PFAS Toxicity and DNA Damage: The Role of Race and Melanin Concentration." Presented at the ACS Fall 2025, Washington, DC, August 19, 2025.
- Bell-Huff, Cristi. "Are You and Your Clients Vulnerable to Wildfires?" Presented at ASID GATHER, Atlanta, GA, August 18, 2025.
- Henderson, Holley. "Which Chair Would You Specify?" Presented at the ASID GATHER, Atlanta, GA, August 18, 2025.
- Hess, Joe, Shaligram Sharma, and Christa Wright. "Decoding Secondhand Vaping Emissions to Unravel the Chemical Sign." Presented at the ACS Fall 2025, Washington, DC, August 18, 2025.
- Kalafut, David. "Wildland-Urban Interface (WUI) Fires and the Spatial Distribution of Soil Heavy Metals in the Aftermath of the Lahaina Fire." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 18, 2025.
- Zhang, Qian, Mark Wilson, Cristi Bell-Huff, Ivan Sanchez, Mabel Maround, and Beth Welmaker. "Exposure Hazards of Volatile Organic Compound Emissions from Vat Photopolymerization 3D Printing." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 18, 2025.
- Meister, Maureen, Xiaojia He, Shaligram Sharma, Pam Cushenan, Jonathan Shannahan, and Christa Wright. "Vaping Induces Oxidative Stress-Driven DNA Damage in the Gingival Epithelium." Presented at the ISES/ISEE Joint Conference, Atlanta, GA, August 18, 2025.

- Sharma, Shaligram. "Evaluating Racial Differences in PFAS Induced Toxicity and DNA Damage: The Role of Melanin." Presented at the Cellular and Molecular Mechanism of Toxicity Gordon Research Seminar, Andover, NH, August 14, 2025.
- Brown-Ford, Sandra. "Dermal Absorption of PFAS from Treated Consumer and Occupational Textiles." Presented at the Cellular and Molecular Mechanism of Toxicity Gordon Research Seminar, Andover, NH, August 13, 2025.
- Sharma, Shaligram. "The Role of Lithium-Ion Battery Chemistry in Oxidative Stress-Induced Epithelial Mesenchymal Transition within Small Airway Epithelial Cells." Presented at the Cellular and Molecular Mechanism of Toxicity Gordon Research Seminar, Andover, NH, August 13, 2025.
- Young, Haylee. "The Impact of Perfluorohexanoic Acid (PFHxA) on Renal Health." Presented at the Cellular and Molecular Mechanism of Toxicity Gordon Research Seminar, Andover, NH, August 13, 2025.
- Sharma, Shaligram. "Evaluating Racial Differences in PFAS Induced Toxicity and DNA Damage: The Role of Melanin." Presented at the Cellular and Molecular Mechanism of Toxicity Gordon Research Seminar, Andover, NH, August 9, 2025.
- Patel, Chirag, Max Lau, and Xiaojia He. "AI and the Exposome Panel." Presented at the ULRI Research Symposium, Washington, DC, July 23, 2025.
- Nguyen, Norah. "PFAS Exposure Induces Oxidative Stress and DNA Damage in Human Coronary Artery Endothelial Cells." Presented at the ULRI Symposium, Washington, DC, July 21, 2025.
- Bell-Huff, Cristi, and Christa Wright. "At Your SERVICE: Introducing New Guidance for Managing Vaping on Campus." Presented at the CSHEMA National Conference, Seattle, WA, July 16, 2025.
- Hamer, Diana, and Mark Wilson. "Protecting Public Health from Wildfires and Smoke Hazards." Presented at the 2025 NACCHO360, Anaheim, CA, July 16, 2025.
- Zhang, Qian, Mark Wilson, Cristi Bell-Huff, and Beth Welmaker. "Volatile Organic Compound Emissions from 3D Printing Resins Used in the Dental Field." Presented at the CSHEMA National Conference, Seattle, WA, July 14, 2025.
- Henderson, Holley, Cristi Bell-Huff, and Clayton Wetzel. "Understanding the Impact of Wildfires and Extreme Heat on School Student and Staff Health." Presented at the Virtual NASN 2025, Virtual, July 7, 2025.
- Henderson, Holley, Cristi Bell-Huff, and Clayton Wetzel. "Understanding the Impact of Wildfires and Extreme Heat on School Student and Staff Health." Presented at the NASN 2025 Conference, Austin, TX, June 28, 2025.
- He, Xiaojia, Irene Yang, Maureen Meister, Henry Claussen, Robert Arthur, Pam Cushenan, Scott Weaver, et al. "Oral Quadrant Subgingival Microbiome Dysbiosis Associated with ENDS Use." Presented at the 2025 IADR/PER General Session & Exhibition, Barcelona, Spain, June 28, 2025.
- Yang, Irene, Xiaojia He, Jennifer Jeon, Henry Claussen, Robert Arthur, Pam Cushenan, Scott Weaver, et al. "Functional Shift in Subgingival Microbiome Linked to Vaping Behavior." Poster presented at the 2025 IADR/PER General Session & Exhibition, Barcelona, Spain, June 28, 2025.
- Zhang, Qian, Mark Wilson, and Cristi Bell-Huff. "Potential Chemical Hazards of Resin 3D Printing in Dental Schools." Presentation presented at the 2025 IADR/PER General Session & Exhibition, Barcelona, Spain, June 27, 2025.
- He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Pam Cushenan, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Race-Dependent Vaping Impacts on Periodontal Health via Salivary Profiling." Poster presented at the 2025 IADR/PER General Session & Exhibition, Barcelona, Spain, June 26, 2025.

Zhang, Qian, Mark Wilson, and Marilyn Black. "Assessment of Chemical Hazards Associated with 3D Printing." Presented at the ASHRAE Annual Conference, Phoenix, AZ, June 22, 2025.

Connelly, Sarah. "From the Bench to Policy & Outreach." Presented at the IISAGE Career REU Workshop, Virtual, June 20, 2025.

Wright, Christa. "The Science of Safety: Climate, Communities, and Schools." Panel Session presented at the Global Mindful Conference, Denver, CO, June 18, 2025.

Wright, Christa. "The Seven Misconceptions of Vaping." Presented at the Center for Black Health and Equity's West Virginia Coalition, Virtual, June 16, 2025.

Hamer, Diana, Cristi Bell-Huff, Montrece Ransome, and Mark Wilson. "Wildfire & WUI: Strengthening Community Resilience." Presented at the 2025 NNPHI Annual Conference, Minneapolis, MN, June 12, 2025.

Chepaitis, Patrick, Qian Zhang, David Kalafut, Taryn Waddey, and Mark Wilson. "Climate Change and Building Material Chemical Emissions." Presentation presented at the Air & Waste Management Association (AWMA) Annual Conference, Raleigh, NC, June 10, 2025.

Wilson, Mark, Laurie Gilmer, and Holley Henderson. "Beyond the Flames: Protecting Buildings & Occupants from Wildfire & WUI Risks." Presented at the IFMA ISC and WE Webinar, Virtual, June 3, 2025.

Meister, Maureen, Xiaojia He, Shaligram Sharma, Akshada Shinde, Jonathan Shannahan, and Christa Wright. "Electronic Nicotine Delivery Systems (ENDS) Use Mediates Drivers of Metabolomic Syndrome: Impact on Sugar Intake, BMI, and Proteomic Signatures." Presented at the American Society of Nutrition, Orlando, FL, June 2, 2025.

Bossa, Nathan, and Mark Wiesner. "Challenges and Solutions to the Plastic Waste Pandemic." Presented at the International Network for Researching, Advancing, and Assessing Materials for Environmental Sustainability (INFRAMES) meeting, Greensboro, NC, May 29, 2025.

He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Pam Cushenan, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Health Impacts of E-Cigarettes Use in the African American Population: Oxidative Stress, Innate Immunity and Mucous Epithelium Barrier Integrity." Presented at the American Thoracic Society 2025, San Francisco, CA, May 21, 2025.

Young, Haylee, Shaligram Sharma, Qian Zhang, Maureen Meister, Xiaojia He, Marilyn Black, and Christa Wright. "Inhalation Risks of Respirable Indoor Dust Exposure From Textiles Aging." Presented at the American Thoracic Society 2025, San Francisco, CA, May 20, 2025.

Sharma, Shaligram, Maureen Meister, Christa Wright. "Evaluating Racial Differences in PFAS Induced Toxicity and DNA Damage: The Role of Melanin." Presented at the American Thoracic Society 2025, San Francisco, CA, May 20, 2025.

Meister, Maureen, Shaligram Sharma, Xiaojia He, Patrick Chepaitis, Mark Wilson, Mohammad Parhizi, Vinay Premant, Judy Jeevarajan, Marilyn Black, and Christa Wright. "Respiratory Health Implications of Thermal Runaway Emission Exposures: An In Vitro Analysis." Presented at the American Thoracic Society 2025, San Francisco, CA, May 19, 2025.

Solan, Megan, HJ Kim, and Jin-Ah Park. 2025. "Perfluorohexanoic Acid (PFHxA) Exposure Activates The Aryl Hydrocarbon Receptor In Well-Differentiated Primary Human Bronchial Epithelial Cells." Presented at the American Thoracic Society 2025, San Francisco, CA, May 19, 2025.

Wilson, Mark. "Wildland Urban Interface Fire Emissions and Residues: Methods for Evaluation from the Field to the Laboratory." Presented at the AIHA GA Section Meeting, Atlanta, GA, May 16, 2025.

Wilson, Mark, Eric Huhn, Chris Weis, and Holley Henderson. "Beyond the Flames: Protecting Health from Wildfire & WUI Risks." Presented at the CSHEMA Webinar, Virtual, May 12, 2025.

Wright, Christa. "Textiles and Per- and Polyfluoroalkyl Substances (PFAS): Evaluating Exposure and Dermal Absorption Risks of Forever Chemicals." Presented at the Techtextile Symposium, Atlanta, GA, May 7, 2025.

Bell-Huff, Cristi. "Protecting Our Communities: Public Health Strategies for Managing Wildfire Smoke Exposure." Presented at the NACCHO Preparedness Summit, San Antonio, TX, May 1, 2025.

Somarelli, Jason. "Challenges and Solutions to the Plastic Waste Pandemic." Presented at the NC League of Women Voters monthly meeting, Raleigh, NC, April 22, 2025.

Black, Marilyn. "Building Resilience for Health: The Research Scientist's Perspective on Climate Impacts." Presented at the Housing, Health and Extreme Events: Developing Good Practice and Sound Policy, Virtual, April 10, 2025.

He, Xiaojia. "Xiaojia He Presentation on ESS 2024 Best Paper Award." Presented at the ESS Webinar: Award-Winning Research: Insights from the ESS 2024 Paper & Abstracts Winners, Virtual, April 10, 2025.

Zhang, Qian. "Potential Inhalation Risks from Vat Photopolymerization 3D Printing in Dental Schools." Presented at the Additive Manufacturing Users Group (AMUG) Conference, Chicago, IL, April 2, 2025.

Wilson, Mark, Andrew Whelton, and Rima Habre. "Wildfire-Related Research: Novel Scientific Questions for Public Health and Environmental Health (Panel 2)." Presented at the Forum on Medical and Public Health Preparedness for Disasters and Emergencies: Meeting 50, Virtual, March 26, 2025.

Somarelli, Jason. "Challenges and Solutions to the Plastic Waste Pandemic." Presented at the Integrated Toxicology and Environmental Health Program Seminar Series, Durham, NC, March 26, 2025.

Vincoff, Sophie. "Microplastics, Nanoplastics, and Plastic Additives: Emerging Techniques for Detection and Assessing Environmental Impacts." Presented at the 2025 American Chemical Society National Meeting, San Diego, CA, March 23, 2025.

Sharma, Shaligram, Maureen Meister, and Christa Wright. "Evaluating Racial Differences in PFAS Induced Toxicity and DNA Damage: The Role of Melanin." Presented at the Society of Toxicology, Orlando, FL, March 20, 2025.

Choo, Cynthia, David Kalafut, Mark Wilson, Timothy Nurkiewicz, Anand Ranpara, William Goldsmith, Thomas Batchelor, and Marilyn Black. "Wildland Urban Interface (WUI) Fire- Multi-Route Human Exposure Model." Presented at the Society of Toxicology, Orlando, FL, March 19, 2025.

He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshi Shinde, Pam Cushenan, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Health Disparities in Vaping: Implications for Oxidative Stress, Innate Immunity and Mucous Epithelium Barrier Integrity." Presented at the Society of Toxicology, Orlando, FL, March 19, 2025.

Meister, Maureen, Shaligram Sharma, Xiaojia He, Patrick Chapaitis, Mark Wilson, Mohammad Parhizi, Vinay Premnath, Judy Jeevarajan, Marilyn Black, and Christa Wright. "Role of Battery Chemistry in the Respiratory Health Implications of Thermal Runaway Emissions Exposure." Presented at the Society of Toxicology, Orlando, FL, March 19, 2025.

Zhang, Qian, Mark Wilson, and Marilyn Black. "Evaluation of Inhalation Exposure Risks from Operating Material Extrusion 3D Printers." Presented at the Society of Toxicology, Orlando, FL, March 19, 2025.

Ranpara, Anand, William T. Goldsmith, Thomas Batchelor, Robert Burns, David Kalafut, Mark Wilson, Salik Hussain, David Harper, and Timothy Nurkiewicz. "Morphological Evaluation of Particles Emitted in Simulated Wildland-Urban Interface Fires Using Electron Microscopy." Presented at the Society of Toxicology, Orlando, FL, March 17, 2025.

Goldsmith, Travis, Anand Ranpara, Thomas Batchelor, David Kalafut, Mark Wilson, Cynthia Choo, Robert Burns, Salik Hussain, David Harper, and Timothy Nurkiewicz. "Development and Testing of a Novel Combustion Generator to Simulate Wildland-Urban Interface Fires." Presented at the Society of Toxicology, Orlando, FL, March 17, 2025.

Wright, Christa. "What is Toxicology? Protecting Human Health in the Modern World." Presented at the SOT Undergraduate Diversity Program, Orlando, FL, March 15, 2025.

Hardan, Emily, Halley Myers, Maureen Meister, Joe Hess, Xiaojia He, and Fatima Ahmad. "Making the Water We Drink and the Air We Breathe Healthier: Filtration." Presented at the Atlanta Science Festival: Imagining the Future Event, McGarity Elementary School, Hiram, GA, March 6, 2025.

Meister, Maureen. "Matters of the Heart: A Man's Guide to Cardiac Care." Presented with Blackdoctor.org Heart Health Awareness Series: Part 2, Virtual, February 18, 2025.

Bell-Huff, Cristi, and Sandra Brown-Ford. "Introduction to CIRI and Current Research Projects on Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Exposure." Presented at the AIHA GA Section meeting, Kennesaw State University, Kennesaw, GA, February 7, 2025.

Wilson, Mark. "Explore Opportunities at UL Research Institutes." Presented at the ULRI Webinar - Purdue University, Virtual, January 30, 2025.

Myers, Halley. "Choose Your Own Adventure: Navigating Public Health Careers Outside of the Government." Presented at the Georgia State University Public Health Power Hour, Georgia State University, Virtual, January 29, 2025.

Wilson, Mark. "California Wildfire Tips: How Can You Protect Yourself?" Presented at the Blackdoctor.org Webinar, Virtual, January 27, 2025. <https://www.youtube.com/live/mRP9AEmQ6UE?feature=shared>.

Henderson, Holley, and Dawn Haynie. "Climate, Building Resiliency & Human Health: How Extreme Weather Impacts Building Materials." Presented at the 2025 AIA/ACSA Intersections Research Conference: New Housing Paradigms, Austin, TX, January 11, 2025. <https://www.acsa-arch.org/conference/2025-acsa-aia-intersections-research-conference-new-housing-paradigms/saturday-january-11-2025/>.

Wright, Christa. "Clear the Air: Breaking the Vape Trap." Presented at the 4 Experts Discuss the Dangers of Vaping Among Black Youth - And How to Stop It, Virtual, December 18, 2024. <https://blackdoctor.org/black-teen-vaping-dangers/>

Calhoun, Zach, Marilyn S. Black, Michael Bergin, and David Carlson. "Spatiotemporal Estimates of Urban Heat Stress Using Citizen Science: How Adjusting for Preferentially Sampled Observations Can Fill in the Gaps." Presented at the American Geophysical Union Fall Meeting, Washington, DC, December 9, 2024.

Wright, Christa. "Thermal Runaway Emission Exposures and Adverse Respiratory Outcomes: The Role of Lithium-Ion Battery Chemistry." Presented at ULRI Discoveries in Safety Seminar Series, Virtual, December 12, 2024.

He, Xiaojia. "Dimensionality Reduction and Network Analysis in OMICS." Presented at the Northwestern University Data Science Seminar, Virtual, December 4, 2024.

Wilson, Mark, Christa Wright, Annette Stelmack, and Steve Kerber. "The Latest Science on WUI Fires and the Built Environment." Presented at the GreenCE Professional Development Webinar, Virtual, December 2, 2024.

He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Vaping Implications Among African Americans: Oxidative Stress, Innate Immunity, and EMT Activation." Presented at the Society for Redox Biology and Medicine Annual Conference, Savannah, GA, November 23, 2024.

Meister, Maureen, Shaligram Sharma, Xiaojia He, Mark Wilson, Mohammad Parhizi, Vinay Premnath, Judy Jeevarajan, Marilyn Black, and Christa Wright. "The Role of Lithium-Ion Battery Chemistry in Oxidative Stress-Induced Epithelial Mesenchymal Transition within Small Airway Epithelial Cells." Presented at the Society for Redox Biology and Medicine Annual Conference, Savannah, GA, November 23, 2024.

- Bell-Huff, Cristi, Beth Welmaker, Qian Zhang, Onyekachi Udeka, and Mark Wilson. "Improving Air Quality in Dental School Labs: Insights from a Collaborative Field Study." Presented at the Campus, Safety, and Environmental Health Association (CSHEMA) Annual Webinar, Virtual, November 21, 2024.
- Meister, Maureen. "Lung Health: Mitigating Exposures Effects with Diet." Presented as an Invited Guest Lecture at Georgia State University, Atlanta, GA, November 13, 2024.
- Bell-Huff, Cristi, Mark Wilson, Qian Zhang, and Christa Wright. "An Introduction to ULRI/CIRI and Research Overview with Two Case Studies." Presented at the Georgia Section Meeting of the American Industrial Hygiene Association (AIHA), Marietta, GA, November 8, 2024.
- Wright, Christa, Cristi Bell-Huff, and Marilyn Black. "An Introduction to ULRI/CIRI and Vaping Research." Presented to the U.S. Food and Drug Administration (FDA), Virtual, October 29, 2024.
- Solan, Megan, and Jin-Ah Park. "Perfluorohexanoic acid (PFHxA) Induces Cytochrome P450 Expression and Enzymatic Activity in Well-differentiated Primary Human Bronchial Epithelial Cells (HBEC) in Air-Liquid Interface (ALI) Culture." Presented at the 45th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Fort Worth, TX, October 24, 2024.
- Choo, Cynthia, David Kalafut, Marilyn Black, and Mark Wilson. "Wildfire-Specific Parameters for Multi-Route Human Exposure Risk Models." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 24, 2024.
- Sharma, Shaligram, Maureen Meister, Xiaojia He, Mark Wilson, Mohammad Parhizi, Vinay Premanth, Judy Jeevarajan, Marilyn Black, and Christa Wright. "Assessment of Emission Hazards and Inhalation Risks during Lithium-Ion Battery Thermal Runway Events: Implications for Firefighter Safety." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 24, 2024.
- Meister, Maureen, Shaligram Sharma, Xiaojia He, Mark Wilson, Mohammad Parhizi, Vinay Premanth, Judy Jeevarajan, Marilyn Black, and Christa Wright. "Thermal Runaway Emission Exposures and Adverse Respiratory Outcomes: The Role of Lithium-Ion Battery Chemistry." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 22, 2024.
- He, Xiaojia, Maureen Meister, Qian Zhang, Haylee Young, Patrick Chepaitis, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Vaping, Heavy Metals, and Lung Dysfunction: The Role of Puff Volume." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 22, 2024.
- Zhang, Qian, Mark Wilson, and Marilyn Black. "Exposure Hazards of Particle and Volatile Organic Compound Emissions from Material Extrusion 3D Printing." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 21, 2024.
- Wang, Yixiang, Linchen He, Charles J Weschler, James J. Schauer, Michael H. Bergin, Marilyn Black, and Junfeng (Jim) Zhang. "The Effects of Portable Indoor Air Purifiers on the Oxidative Potential of Organic Matter and Metal Components in PM_{2.5}." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 21, 2024.
- Hess, Joseph, Shaligram Sharma, Maureen Meister, Xiaojia He, Jonathan Shannahan, Marilyn Black, and Christa Wright. "The Chemical Fingerprints of Secondhand Vaping: Human Exposure and Health Risk Evaluations." Presented at the International Society of Exposure Science (ISES) Annual Conference, Montreal, Canada, October 20, 2024.
- Black, Marilyn, Birgitte Messerschmidt, and Melissa Van Hagan. "In the HOT SEAT! What to Do When Fire, Smoke, and Dust Impact Occupant Health." Presented at International Facility Managers Association (IFMA) World Workplace, San Antonio, TX, October 11, 2024.
- Harris, Debra. "Practical Strategies to Deploy Before, During, and After WUI Fires." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 2, 2024.

Choo, Cynthia. "Field to Lab: Assessing Direct and Indirect Emissions from Wildland Urban Interface Fires." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 2, 2024.

Nurkiewicz, Tim. "Characterization of WUI Fire Emissions Created in a Novel Combustion Generator." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 2, 2024.

Chepaitis, Patrick. "Climate Change and Indoor Material Emissions." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 2, 2024.

Calhoun, Zach. "Matching Heat Maps to Health Outcomes: Urban Heat Stress and Opportunities to Intervene." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 1, 2024.

Meister, Maureen. "ENDS-Induced Heavy Metal Exposure and Oxidative Injury is Mediated by Vaping Behavior." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 1, 2024.

Bergin, Michael. "Improving Global Air Quality: Combining Sensors, Satellites, and Data Analytics." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 1, 2024.

Greenwald, Roby. "Black Carbon and PM_{2.5} Personal Exposure Compared to Institutional Settings: Preliminary Results from the Air Pollution Exposure in Child Care Settings (APECCS) Study." Presented at the 2nd Annual ULRI Research Symposium, Atlanta, GA, October 1, 2024.

Henderson, Holley, and Dawn Haynie. "Resilient Design: How Extreme Weather Affects Building Materials and Human Health." Presented at the GreenCE Professional Development Webinar, Virtual, September 24, 2024.

Chepaitis, Patrick, Alex Azan, Zach Calhoun, and Marilyn Black. "Exploring the Impact of Extreme Heat on Human Health." Presented at the CIRI Webinar Series, Virtual, September 10, 2024.

Meister, Maureen, Xiaojia He, Jennifer Jeon, Akshada Shinde, Patrick Chepaitis, Pam Cushenan, Qian Zhang, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Ends-Induced Heavy Metal Exposure and Oxidative Injury Is Mediated by Vaping Behavior." Presented at Tobacco Science Research Conference (TSRC), Atlanta, GA, September 11, 2024.

Wilson, Mark. "Wildland Urban Interface Fire Emissions and Residues: Methods for Evaluation from the Field to the Laboratory." Presented at ULRI Discoveries in Safety Seminar Series, Virtual, August 29, 2024.

Bell-Huff, Cristi, and Holley Henderson. "What Schools Need to Know About Emerging Air Pollutants and Their Impact on Student Health." Presented at the GreenCE Professional Development Webinar, Virtual, August 27, 2024.

Bell-Huff, Cristi. "Forever Chemicals: What Designers Need to Know." Presented at the ASID Design Business Lecture Series, Chicago, IL, August 21, 2024.

Wilson, Mark. "Wildland Urban Interface (WUI) Fire Emissions and Residues: Short and Long-Term Indoor Air Quality Hazards." Presented at American Chemical Society Fall 2024, Denver, CO, August 20, 2024.

Zhang, Qian, Lillie Barnett, Saeed Alqahtani, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Impact of 3D Printing Emissions on Indoor Air Quality and Respiratory Health Implications in Educational Settings." Presented at American Chemical Society Fall 2024, Denver, CO, August 20, 2024.

He, Xiaojia, Jennifer Jeon, Akshada Shinde, Maureen Meister, Lillie Barnett, Qian Zhang, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Secondhand Exposure to Vaping Emissions and Increased Inhalation Risks Linked to Puff Volume." Presented at American Chemical Society Fall 2024, Denver, CO, August 20, 2024.

Wright, Christa. "Assessing Respiratory and Dermal Exposure Risks of PFAS Containing Textiles and Dust." Presented at American Chemical Society Fall 2024, Denver, CO, August 20, 2024.

Choo, Cynthia. "Direct Thermal Desorption Analysis of Ash from Lab Scale Wildland Urban Interface Combustion." Presented at American Chemical Society Fall 2024, Denver, CO, August 20, 2024.

Henderson, Holley, and Dawn Haynie. "Climate, Building Resiliency and Human Health: A Look at the Impacts of Extreme Weather on Interior Design Materials." Presented at American Society of Interior Design GATHER Catalyst, Denver, CO, August 11, 2024.

Bell-Huff, Cristi, Onyekachi Udeka, Beth Welmaker, Mark Wilson, and Qian Zhang. "A Collaborative Field Study of Air Quality in Dental School Labs." Presented at Campus Safety, Health, and Environment Management National Conference, Tampa, FL, July 30, 2024.

Bell-Huff, Cristi, and Elizabeth Henry. "What's Your Sign? The Need for Universal Signage in 3D Printing Spaces on Campus." Presented at Campus Safety, Health, and Environment Management National Conference, Tampa, FL, July 29, 2024.

Henderson, Holley. "How Public Health Professionals Can Collaborate with School Staff to Identify and Address Indoor Air Contaminants." Presented at National Association of County and City Health Officials (NACCHO) 360, Detroit, MI, July 24, 2024.

Wilson, Mark, and Qian Zhang. "3D Printing Safety, Emissions, and Health Risks on Campus." Presented at The University of California Industrial Hygiene Working Group, Virtual, July 16, 2024.

He, Linchen, Charles J. Weschler, Glenn Morrison, Marilyn Black, Michael H. Bergin, and Junfeng (Jim) Zhang. "Synergistic Effects of Ozone Reaction Products and Fine Particulate Matter on Pulmonary Physiology in Children with Asthma." Presented at Indoor Air 2024, Honolulu, HI, July 8, 2024.

Chen, Ruoxue, Yihui Ge, Zhenchun Yang, Jiawen Liao, Chenyu Qiu, Wu Chen, Yan Lin, Enrique Trigo, Sulema I. Saravia Rodriguez, Vivien Le, Howard N. Hodis, Frank D. Gilliland, Michael H. Bergin, Marilyn Black, Zhanghua Chen, and Junfeng (Jim) Zhang. "Effectiveness of Long-Term HEPA Filtration in Reducing PM_{2.5} Levels in Los Angeles Homes: Preliminary Data from a Randomized Crossover Trial." Presented at Indoor Air 2024, Honolulu, HI, July 8, 2024.

Qiu, Chenyu, Jiawen Liao, Wu Chen, Zhenchun Yang, Yan Lin, Ruoxue Chen, Yihui Ge, Enrique Trigo, Sulema I. Saravia Rodriguez, Vivien Le, Michael H. Bergin, Marilyn Black, Howard N. Hodis, Frank D. Gilliland, Junfeng (Jim) Zhang, and Zhanghua Chen. "The Effects of Indoor Air Filtration on Cardiometabolic Outcomes Among Individuals in Urban Los Angeles." Presented at Indoor Air 2024, Honolulu, HI, July 8, 2024.

Bell-Huff, Cristi, Holley Henderson, and Clayton Wetzel. "What School Nurses Should Know About Emerging Air Pollutants and Their Impact on Student Health." Presented at the National Association of School Nurses Conference, Chicago, IL, June 30, 2024.

Black, Marilyn, and Birgitte Messerschmidt. "Resiliency for Health: A Holistic Approach to Building Performance." Presented at the NFPA Conference and Expo, Orlando, FL, June 19, 2024.

Bell-Huff, Cristi, and Christa Wright. "Emerging Threats to Indoor Air Quality (IAQ) and Human Health." Presented at the SOT Webinar Series, Virtual, June 17, 2024.

Wilson, Mark, Annette Stelmack, Chris Weiss, Brian Metzger, Jennifer Osborne, and Chuck Micolis. "Understanding Wildfires in the Wildland Urban Interface, the Built Environment, and Public Health." Presented at the CIRI Webinar Series, Virtual, June 13, 2024.

Black, Marilyn, and Holley Henderson. "PFAS and the Built Environment: The Science Behind 'Forever Chemicals.'" Presented at NeoCon 2024, Chicago, IL, June 10, 2024.

Black, Marilyn, and Holley Henderson. "CIRI Overview." Presented to the NIH Children's Environmental Health Research & Translation Centers, Virtual, May 28, 2024.

Henderson, Holley, Mary Ellen Mika, David Cordell, and Karen McCallum. "2024 Sustainability Trends in Interior Design." Presented at the ASID Webinar Series, Virtual, May 23, 2024.

Meister Maureen, Xiaojia He, Jennifer Jeon, Akshada Shinde, Patrick Chopaitis, Pam Cushenan, Qian Zhang, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Puff Volume Mediates Heavy Metal Exposure Levels and Oxidative Injury in ENDS Users." Presented at the American Thoracic Society International Conference, San Diego, CA, May 22, 2024.

He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Qian Zhang, Patrick Chopaitis, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Puff Volume Associated Salivary Proteomic and Metabolomic Perturbations Induced by Heavy Metal Vaping Exposures." Presented at the American Thoracic Society International Conference, San Diego, CA, May 21, 2024.

Choo, Cynthia, David Kalafut, Marilyn Black, and Mark Wilson. "Direct Thermal Desorption Analysis of Ash from Lab Scale Wildland Urban Interface Combustion." Presented at the 18th International Congress on Combustion By-Products and Their Health Effects, Durham, NC, May 21, 2024.

Lin, Yan, Xiangtian Wang, Ruoxue Chen, Tenley Weil, Yihui Ge, Heather M. Stapleton, Michael H. Bergin, and Junfeng (Jim) Zhang. "Arachidonic Acid Metabolites in Self-Collected Biospecimens Following Campfire Exposure: Exploring Non-Invasive Biomarkers of Wildfire Health Effects." Presented at the 18th International Congress on Combustion By-Products and Their Health Effects, Durham, NC, May 21, 2024.

Wang, Xiangtian, Yan Lin, E. Craig, Tenley Weil, Heather M. Stapleton, Michael H. Bergin, and Junfeng (Jim) Zhang. "Carboxylic Polycyclic Aromatic Hydrocarbons as Wood Fire Biomarkers." Presented at the 18th International Congress on Combustion By-Products and Their Health Effects, Durham, NC, May 21, 2024.

Wilson, Mark, Cynthia Choo, David Kalafut, Marilyn Black, Travis Goldsmith, Tom Batchelor, Anand Ranpara, and Tim Nurkiewicz. "Volatile Organic Compound (VOC) Profile from Laboratory-Scale Combustion Emissions of Regionally Relevant Wood Types and Synthetic Building Materials." Presented at the 18th International Congress on Combustion By-Products and Their Health Effects, Durham, NC, May 20, 2024.

Barnett, Lillie, Qian Zhang, Saeed Alqahtani, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Metabolic and Toxicological Effects of 3D Printer Particulate Emissions at a High School: Comparing ABS and PLA Filaments." Presented at the American Thoracic Society International Conference, San Diego, CA, May 20, 2024.

Wilson, Mark, and Qian Zhang. "The Safe Use of 3D Printing in Higher Education." Presented at the American Industrial Hygiene Association (AIHA) Connect Conference, Columbus, OH, May 20, 2024.

Black, Marilyn, Jaiko Celka, and Sahar Abbaszadeh. "The Science Behind Building Resiliency for Health." Presented at Building Organizational Resilience with WELL, Long Beach, CA, May 7, 2024.

Henderson, Holley, and Dawn Haynie. "Building Resilience for Health." Presented at Coverings 2024 – Tile & Stone Connected & Together, Atlanta, GA, April 24, 2024.

Henderson, Holley. "Nurturing Well-Being: Exploring What's Next in Healthy Building." Presented at Coverings 2024 – Tile & Stone Connected & Together, Atlanta, GA, April 22, 2024.

Cope, Anne, Marilyn Black, Ben Waterman, and Kelly Watkinson. "Preparing for Natural Disasters Part 2: Wind and Water." Presented at the Land Trust Alliance Webinar Series, Virtual, April 11, 2024.

Bell-Huff, Cristi, Mark Wilson, and Qian Zhang. "Safe Use of 3DP in Higher Ed." Presented at the American Industrial Hygiene Association (AIHA) Webinar Series, Virtual, April 10, 2024.

Black, Marilyn, and Holley Henderson. "CIRI Overview." Presented to the President's Task Force on Asthma Disparities, Virtual, April 8, 2024.

Black, Marilyn, Seema Bhangar, and Jaime Van Mourik. "Protecting Human Health While Adapting to Extreme Climate Conditions." Presented at the CIRI Webinar Series, Virtual, April 3, 2024.

Black, Marilyn. "Resilience for Health: Research Scientists' Climate Impact Perspectives on Building Environment and Materials." Presented at the BEST6 Conference, Austin, TX, March 20, 2024.

Wright, Christa. "Connecting Vaping Behavior, Hazardous Chemical and Particle Exposures, and Redox-Mediated Cellular Alterations in the Oral Cavity." Presented at the 2024 IADR/AADOCR/CADR General Session and Exhibition, New Orleans, LA, March 16, 2024.

Barnett, Lillie, Qian Zhang, Saeed Alqahtani, Jonathan Shannahan, Marilyn Black, and Christa Wright. "High School 3D Printer Emissions Elicit Filament-Specific and Dose-Dependent Metabolic and Genotoxic Effects in Human Airway Epithelial Cells." Presented at the Society of Toxicology (SOT) 63rd Annual Meeting and ToxExpo, Salt Lake City, UT, March 12, 2024.

He, Xiaojia, Maureen Meister, Jennifer Jeon, Akshada Shinde, Qian Zhang, Patrick Chepaitis, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Puff-Volume Dependent Heavy Metal Exposure from ENDS Aerosols Perturbed Salivary Proteome and Metabolome." Presented at the Society of Toxicology (SOT) 63rd Annual Meeting and ToxExpo, Salt Lake City, UT, March 12, 2024.

Goldsmith, William T., Anand Ranpara, Thomas P. Batchelor, David Kalafut, Mark Wilson, Jingxin Wang, Robert Burns, Wanhe Hu, Bibek Aryal, Salik Hussain, Austin Alexander, and Timothy R. Nurkiewicz. "A Laboratory Simulation of Combustion Emissions from Wildland Urban Interface Fires." Presented at the Society of Toxicology (SOT) 63rd Annual Meeting and ToxExpo, Salt Lake City, UT, March 12, 2024.

Meister, Maureen, Xiaojia He, Akshada Shinde, Patrick Chepaitis, Pam Cushenan, Qian Zhang, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Vaping Behavior Dictates Heavy Metal Exposure and Associated Oral Oxidative Stress Response." Presented at the Society of Toxicology (SOT) 63rd Annual Meeting and ToxExpo, Salt Lake City, UT, March 11, 2024.

Nurkiewicz, Tim. "Complex Combustion Emissions: Generation, Characterization, and Modeling of Open Burn Exposures." Presented at the Society of Toxicology (SOT) 63rd Annual Meeting and ToxExpo, Salt Lake City, UT, March 11, 2024.

Black, Marilyn. "PFAS and the Built Environment: The Science Behind 'Forever Chemicals.'" Presented at the GreenCE Professional Development Webinar, Virtual, March 11, 2024.

Black, Marilyn, and Michael Savarie. "Clean Chemistry's Role in Retail Sustainability and Product Circularity." Presented at the UL Solutions Center of Excellence Grand Opening and Retail Summit, Lowell, AK, February 27, 2024.

Henderson, Holley. "Top Trends in Interior Design." Presented at the 2024 ASID Trends Report Panel Discussion, Las Vegas, NV, January 30, 2024.

Bell-Huff, Cristi, and Qian Zhang. "3D Printing Safety, Emissions, and Health Risks on Campus." Presented at the Georgia Tech EHS Department Enrichment Seminar, Atlanta, GA, January 23, 2024.

Henderson, Holley. "Top Trends in Interior Design." Presented at the 2024 ASID Trends Report Panel Discussion, Atlanta, GA, January 18, 2024.

Bell-Huff, Cristi. "Vaping on Campus: What the Research Says on Emissions and Potential Health Impacts." Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Webinar Series, Virtual, December 5, 2023.

Barnett, Lillie, Xiaojia He, Jennifer Jeon, Qian Zhang, Saeed Alqahtani, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Real-Time Exposure to 3D Printer Emission Elicits Inflammatory Responses and Metabolic Perturbations in Human Airway Epithelial Cells." Presented at the American College of Toxicology 44th Annual Meeting, Orlando, FL, November 13, 2023.

Stelmack, Annette, Mark Wilson, Steve Kerber, and Christa Wright. "The Latest Science on WUI Fires and the Built Environment." Presented at the GreenCE Professional Development Webinar, Virtual, November 6, 2023.

Watt, Alister, and Marilyn Black. "Preparing for Natural Disasters Part One: Fire and Smoke." Presented at the Land Trust Alliance Webinar, Virtual, October 26, 2023.

Yang, Irene, Xiaojia He, Henry Claussen, Robert Arthur, Jennifer Jeon, Pam Cushenan, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Exploring the Impact of Vaping Behavior on the Subgingival Microbiome of ENDS Users." Presented at the Fall 2023 Tobacco Regulatory Science Meeting (TRSM), Bethesda, MD, October 17, 2023.

Zhang, Qian, Rodney J. Weber, Todd P. Luxton, Derek M. Peloquin, Eric J. Baumann, and Marilyn S. Black. "Particle Emission and Metal Composition Characterizations for Fused Filament Fabrication 3D Printers Using Emerging Materials." Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Portland, OR, October 5, 2023.

Greenwald, Roby, Yu-Jung (Grace) Lin, Donghai Liang, and Christina H. Fuller. "Introducing the Air Pollution Exposure in Childcare Settings (APECCS) Study: Measuring Indoor/Outdoor Air Quality at Child Care Centers and Residential Environments in the Atlanta Metropolitan Area." Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Portland, OR, October 4, 2023.

Lin, Yu-Jung (Grace), Karl Armstrong, and Roby Greenwald. "Comparison of Low-Cost PM Sensors with a Direct Mass Measurement at Sites Representing Road and Non-Road PM Sources." Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Portland, OR, October 3, 2023.

Wilson, Mark, Christa Wright, Steve Kerber, and Annette Stelmack. "The Latest Science on WUI Fires and the Built Environment: Exploring Atmospheric Emissions from WUI Fires." Presented at the Greenbuild International Conference & Expo, Washington, DC, September 27, 2023.

Black, Marilyn, Birgitte Messerschmidt, and Elliott Horner. "Resiliency for Health." Presented at the Greenbuild International Conference & Expo, Washington, DC, September 26, 2023.

Jeon, Jennifer, Qian Zhang, Joseph Hess, Xiaojia He, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Characterization of Potential Exposure and Inhalation Risks During Firsthand and Secondhand Vaping." Presented at the International Society of Exposure Science National Conference, Chicago, IL, August 29, 2023.

He, Linchen, Shoshana Evans, Christina Norris, Karoline Barkjohn, Xiaoxing Cui, Zhen Li, Feng Li, Yinping Zhang, Marilyn Black, Michael H. Bergin, and Junfeng (Jim) Zhang. "Associations Between Personal Apparent Temperature Exposures and Asthma Symptoms in Children with Asthma." Presented at the International Society of Exposure Science National Conference, Chicago, IL, August 29, 2023.

Zhang, Qian, Rodney J. Weber, Todd P. Luxton, Derek M. Peloquin, Eric J. Baumann, and Marilyn S. Black. "Exposure to Metal-Containing Aerosols Emitted from Material Extrusion 3D Printing with Thermoplastic and Composite Materials." Presented at the International Society of Exposure Science National Conference, Chicago, IL, August 29, 2023.

He, Xiaojia, Jennifer Jeon, Joseph Hess, Qian Zhang, Jonathan Shannahan, Marilyn Black, and Christa Wright. "Utilizing Cheminformatics to Determine Primary and Secondhand Vaping Exposure and Health Risks." Presented at the American Chemical Society (ACS) National Conference, San Francisco, CA, August 16, 2023.

Bell-Huff, Cristi. "Forever Chemicals: What Designers Need to Know." Presented at the American Society of Interior Design GATHER Conference, Los Angeles, CA, August 14–15, 2023.

Henderson, Holley. "Understanding WUI and How to Protect Our Homes." Presented at the American Society of Interior Design GATHER Conference, Los Angeles, CA, August 13–14, 2023.

Zhang, Qian, and Marilyn Black. "Characterization of Particle Emissions from 3D Printing with Thermoplastics and Their Potential Health Impacts." Presented at the American Chemical Society (ACS) National Conference, San Francisco, CA, August 13, 2023.

Bell-Huff, Cristi. "Reducing Fire and Chemical Risks to Safeguard Human Health." Presented at the American Society of Interior Design GATHER Conference, Los Angeles, CA, August 13, 2023.

Wright, Christa, Jeffrey Burgess, Jackie Goodrich, and Michelle Valenti. "Exploring the Intersection of Wildfires and Human Health." Presented at the ULRI Research Symposium, Evanston, IL, August 1, 2023.

Henderson, Holley, Mike Bergin, Mark Wilson, and Debra Harris. "Climate Impacts on Building Environments." Presented at the ULRI Research Symposium, Evanston, IL, August 1, 2023.

Bell-Huff, Cristi. "CIRI + CSHEMA = 3D Printer Safety Guidance for Your Campus." Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) National Conference, Boston, MA, July 26, 2023.

Black, Marilyn, Birgitte Messerschmidt, and Elliott Horner. "Research Scientists' Perspectives on Climate Impacts for Building Environment and Materials." Presented at the GreenCE Professional Development Webinar, Virtual, June 23, 2023.

Jeon, Jennifer, Xiaojia He, Akshada Shinde, Pam Cushenan, Qian Zhang, Irene Yang, Scott Weaver, Ruiyan Luo, Marilyn Black, Jonathan Shannahan, and Christa Wright. "Assessing the Impact of Vaping Behavior on Metabolomic Profiles, Pro-Inflammatory Responses, and Oral Health Outcomes in ENDS Users." Presented at Metabolomics 2023, Niagara Falls, Canada, June 21, 2023.

Black, Marilyn. "Building Resiliency for Health." Presented at NeoCon 2023, Virtual, June 12, 2023.

Black, Marilyn, Birgitte Messerschmidt, Elliott Horner, and Holley Henderson. "Research Scientists' Perspectives on Climate Impacts for Building Environment and Materials." Presented at the A'23 American Institute of Architects (AIA) Conference on Architecture 2023, San Francisco, CA, June 9, 2023.

Zhang, Qian. "Exposure to 3D Printing Emissions and Potential Health Concerns: New Findings from Laboratory and Field Studies." Presented at the Institute of Electrical and Electronics Engineers (IEEE) Product Safety Engineering Society (PSES) Chicago Chapter Meeting, Virtual, May 24, 2023.

Zhang, Qian. "Secondhand Vape Emissions from Electronic Nicotine Delivery Systems." Presented at the American Industrial Hygiene Conference & Expo (AIHce 2023), Phoenix, AZ, May 23, 2023.

Zhang, Qian. "Engineering Control to Reduce 3D Printing Exposure." Presented at the American Industrial Hygiene Conference & Expo (AIHce 2023), Phoenix, AZ, May 22, 2023.

Black, Marilyn. "PFAS and Human Health Research Brief Overview." Presented at the Fire Council Session of the Convening of the UL Enterprise Councils, Lombard, IL, May 9, 2023.

Bell-Huff, Cristi. "3D Printing in Institutions of Higher Education." Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Fine Arts Community of Practice Meeting, Virtual, March 15, 2023.

Black, Marilyn, Clayton Wetzel, and Joni Rix. "Identifying and Addressing Emerging Indoor Air Pollutants: School Health and Facilities Staff Collaborations." Presented at the Center for Green Schools, the National Association of School Nurses, and Chemical Insights Research Institute Joint Webinar, Virtual, April 27, 2023.

Henderson, Holley, and Cristi Bell-Huff. "From Research to Impact – Storytelling Science for a Safer World." Presented at the National Science Teaching Association (NSTA) National Conference, Atlanta, GA, March 23, 2023.

Wright, Christa, Marilyn Black, Miriam Calkins, Jaclyn Goodrich, Alesia Jung, and Jim Zhang. "The Future of Fire Safety: Exploring the Intersection of Wildfires and Human Health." Presented at the Society of Toxicology (SOT) 62nd Annual Meeting and ToxExpo, Nashville, TN, March 22, 2023.

He, Xiaojia, Zachery Jarrell, Matthew Smith, Xin Hu, Sami Teeny, Yongliang Liang, Michael Orr, Young-Mi Go, and Dean P. Jones. "Exposure to Low-Level Vanadium Pentoxide in Drinking Water Triggers Pulmonary Inflammation and

- Fibrotic Signaling.” Presented at the Society of Toxicology (SOT) 62nd Annual Meeting and ToxExpo, Nashville, TN, March 21, 2023.
- Jeon, Jennifer, and Christa Wright. “Variances in Vaping Behavior Contribute to Adverse Periodontal Health Effects.” Presented at the Society of Toxicology (SOT) 62nd Annual Meeting and ToxExpo, Nashville, TN, March 20, 2023.
- Zhang, Jim. “Modulation of PM_{2.5} Mediated Cardiometabolic Indicators in Wildfire-Exposed Individuals Through Residential Air Filtration.” Presented at the Society of Toxicology (SOT) 62nd Annual Meeting and ToxExpo, Nashville, TN, March 20, 2023.
- Bell-Huff, Cristi. “3D Printing in Institutions of Higher Education.” Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Fine Arts Community of Practice Meeting, Virtual, March 15, 2023.
- Black, Marilyn, and Cristi Bell-Huff. “Emerging Indoor Air Quality Challenges and Solutions in Our Schools.” Presented at the Green Schools Conference, New Orleans, LA, March 1, 2023.
- Black, Marilyn, and Cristi Bell-Huff. “Chemicals of Concern for Building and EHS Managers.” Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Webinar Series, Virtual, November 17, 2022.
- Black, Marilyn, and Debra Harris. “Chemistry 101 for Building Professionals.” Presented at the GreenCE/Ron Blank Webinar, Virtual, November 14, 2022.
- Black, Marilyn, and Holley Henderson. “Specifying Residential Upholstered Furniture to Safeguard Human Health.” Presented at the American Society of Interior Designers (ASID) Virginia Chapter Meeting, Virtual, November 10, 2022.
- Black, Marilyn, Debra Harris, and Birgitte Messerschmidt. “Wildfires + Resilience: Whole Building Approach from Design to Occupancy.” Presented at the Greenbuild International Conference & Expo, San Francisco, CA, November 3, 2022.
- Black, Marilyn, and Debra Harris. “Chemistry 101 for Building Managers.” Presented at the International Facility Managers Association (IFMA) Environmental Stewardship, Utilities and Sustainability (ESUS) Webinar Series, Virtual, October 19, 2022. <https://www.youtube.com/watch?v=7wuKZGnMM1o>.
- Bell-Huff, Cristi, and Holley Henderson. “From Research to Impact – Storytelling Science for a Safer World.” Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) 2022 Fall Symposium, Princeton, NJ, October 11, 2022.
- Zhang, Qian, Christa Wright, Aika Davis, and Marilyn Black. “Impacts of 3D Printing and Mitigation Strategies on Particle Exposures in School Environments.” Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Raleigh, NC, October 4, 2022.
- Black, Marilyn, and Debra Harris. “Chemistry 101 for Building Managers.” Presented at the 2022 International Facility Management Association (IFMA) Worldwide Workplace, Nashville, TN, September 29, 2022.
- Holley Henderson. “Design It Healthy, Keep It Healthy: Strategies to Support Resilient Interiors.” Presented at the American Society of Interior Designers (ASID) National Conference, GATHER 2022, Miami, FL, September 22, 2022.
- Black, Marilyn. “Design It Healthy, Keep It Healthy: Strategies to Support Resilient, Healthy Interiors.” Presented at the GreenCE/Ron Blank Webinar, Virtual, September 20, 2022. <https://www.greence.com/Webinars/Design-It-Healthy-Keep-It-Healthy-Strategies>.

- Wright, Christa. "The Utility of CometChip in Nanogenotoxicological Studies." Presented at the International Conference on Environmental Mutagens (ICEM), 53rd Annual Meeting of the Environmental Mutagenesis and Genomics Society (EGMS), Ottawa, Canada, August 27, 2022.
- Black, Marilyn, and Dwayne Sloan. "Balance Between Human Health and Fire Safety in the Built Environment." Presented at the American Home Furnishings Alliance (AHFA) Summit 2022, Colfax, NC, August 18, 2022.
- Black, Marilyn, Debra Harris, Amara Holder, and Birgitte Messerschmidt. "Resiliency, Urban Wildfires, and Materials." Presented at the A'22 American Institute of Architects (AIA) Conference on Architecture 2022, Virtual, July 28, 2022.
- Wright, Christa, Aika Davis, Qian Zhang, and Marilyn Black. "Investigating and Mitigating the Health Impacts of 3D Printer Emissions." Presented at the 2022 Campus Safety, Health, and Environmental Management Association (CSHEMA) National Conference, Scottsdale, AZ, July 8–13, 2022. https://chemicalinsights.ul.org/wp-content/uploads/WRIGHT_CSHEMA_FINAL_JULY-Summary-07.22.pdf.
- Black, Marilyn. "Design It Healthy, Build It Healthy, Keep It Healthy: Strategies to Support Resilient, Healthy Interiors." Presented at NeoCon 2022, Virtual, June 13, 2022. https://chemicalinsights.ul.org/wp-content/uploads/Summary-NeoCon2022_Presentation.pdf.
- Black, Marilyn, and Duane Sloan. "Balance Between Human Health and Fire Safety in the Built Environment." Presented at the National Fire Protection Association (NFPA) Conference & Expo, Boston, MA, June 7, 2022.
- Davis, Aika, and Qian Zhang. "Pop-Up: 3D Printing in Schools: Exposures and Engineering Controls." Presented at the American Industrial Hygiene Conference & Expo (AIHce 2022), Nashville, TN, May 23, 2022.
- Black, Marilyn, and Holley Henderson. "Specifying Residential Upholstered Furniture to Safeguard Human Health." Presented at the GreenCE Professional Development Webinar, Virtual, May 20, 2022. <https://www.greence.com/Webinars/Specifying-Residential-Upholstered-Furniture>.
- Share, Melanie, and Holley Henderson. "Achieving Good Indoor Air Quality." Presented at the National Science Teaching Association (NSTA) National Conference, Houston, TX, April 1, 2022. https://chemicalinsights.ul.org/wp-content/uploads/NSTA_Final_Presented_040122-Summary.pdf.
- Wright, Christa. "The Unknowns of Vaping: Oxidative Stress, Toxicity, and DNA Damage Across the Device Lifetime." Presented at the Society of Toxicology (SOT) 61st Annual Meeting and ToxExpo, San Diego, CA, March 31, 2022. https://chemicalinsights.ul.org/wp-content/uploads/Summary_SOT-2022_ULCI-Chemical-Insights-PPT.pdf.
- Davis, Aika. "Indoor Air Quality Assessment of Classrooms with 3D Printers." Presented at the American Chemical Society (ACS) Spring 2022 National Meeting & Expo, San Diego, CA, March 20, 2022. https://chemicalinsights.ul.org/wp-content/uploads/ACSSpring2022_3DP_Summary-Slides_03.24.22.pdf.
- Black, Marilyn. "Indoor Air Quality in Campus Buildings: Why and How to Address Emerging Risks." Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Spring Symposium, Orlando, FL, February 23, 2022.
- Black, Marilyn. "Before Disaster Strikes: A Picture Can Be Worth a Thousand Words & Dollars." Presented at the National Association of Home Builders (NAHB) International Builders' Show, Orlando, FL, February 8, 2022.
- Black, Marilyn, and Ryan Lisk. "Keeping Campus Buildings Healthy: Managing 3D Printer Emissions for Occupant Safety and Health." Presented at the Campus Safety, Health, and Environmental Management Association (CSHEMA) Training Webinar, Virtual, November 16, 2021. <https://youtu.be/epKa74R9jA4>.
- Davis, Aika, and Qian Zhang. "3D Printing, Is It Safe? Updates and New Findings on 3D Printer Emissions." Presented at the Institute of Electrical and Electronics Engineers (IEEE) Computer Society Chicago Chapter Webinar, Virtual, October 27, 2021.

- Jeon, Ji Soo, Aika Davis, Qian Zhang, Roby Greenwald, Marilyn Black, and Christa Wright. "The Influence of Ageing on the Genotoxic Potential of Electronic Nicotine Delivery System Aerosols: An In Vitro Assessment." Presented at the National Institute of Health (NIH) Tobacco Regulatory Science Meeting (TRSM), Virtual, October 20, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/2021-NIH-Tobacco-Regulatory-Science-Abstract.pdf>.
- Greenwald, Roby, Christa Wright, Aika Davis, Qian Zhang, and Ji Soo Jeon. "Physicochemical and Toxicological Characterization of Electronic Nicotine Delivery Systems." Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Virtual, October 19, 2021. <http://aaarabstracts.com/2021/viewabstract.php?pid=538>.
- Zhang, Qian, Aika Davis, and Marilyn Black. "Particle Emissions from Fused Filament Fabrication 3D Printers and Their Impacts on Indoor Air Quality in School Environments." Presented at the American Association for Aerosol Research (AAAR) Annual Conference, Virtual, October 18, 2021. https://chemicalinsights.ul.org/wp-content/uploads/AAAR-2021_3DP_summary-deck.pdf.
- Black, Marilyn, and Ryan Lisk. "Keeping Campus Buildings Healthy: Managing 3D Printer Emissions for Occupant Safety and Health." Presented at the Association for the Advancement of Sustainability in Higher Education (AASHE) Virtual Global Conference on Sustainability in Higher Education, Virtual, October 12, 2021.
- Black, Marilyn. "Better Health by Managing Your Indoor Environment." Presented at NeoCon 2021, Chicago, IL, October 5, 2021. <https://www.youtube.com/watch?app=desktop&v=fAeA2VA3ur4&feature=youtu.be>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "3D Printing Emissions and Their Impacts on Health and Indoor Air Quality." Presented at the RAPID + TCT 2021 Conference, Chicago, IL, September 15, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/Rapid-TCT-2021-Abstract-1.pdf>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Exposure to Particle and Volatile Organic Compound Emissions from Consumer Level 3D Printers." Presented at the International Society of Exposure Science 31st Annual Meeting (ISES 2021), Virtual, September 1, 2021.
- Black, Marilyn. "Chemical Insights." Presented at the 68th Annual Campus Safety, Health, and Environmental Management Association (CSHEMA) Conference, Virtual, July 26–28, 2021.
- Black, Marilyn. "Keeping School Buildings Healthy: Emerging Issues in Managing for Occupant Safety and Health." Presented at the Association for Learning Environments: Enhancing the Educational Experience Georgia Chapter (GA4LE) Summer Conference, Jekyll Island, GA, June 28, 2021.
- Black, Marilyn, and Anna Stec. "Composition of Urban Materials and Their Combustion Products." Presented at the Chemistry of Urban Wildfires: An Information-Gathering Session by the National Academies of Sciences, Engineering, and Medicine, Virtual, June 8, 2021.
- Zhang, Qian, and Aika Davis. "Emissions and Exposure Levels Associated with 3D Printing in Schools and Universities." Presented at the American Industrial Hygiene Conference & Expo (AIHce 2021), Virtual, May 26, 2021.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney J. Weber. "Emissions from Material Extrusion and Vat Photopolymerization 3D Printers Using a Chamber Study." Presented at the American Industrial Hygiene Conference & Expo (AIHce 2021), Virtual, May 26, 2021.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Emissions from Consumer-Level 3D Printers and the Health Impacts." Presented at the National Institute for Occupational Safety and Health (NIOSH) Pathology and Physiology Research Branch (PPRB) Seminar, Virtual, March 10, 2021. https://chemicalinsights.ul.org/wp-content/uploads/NIOSH-2021_3DP_summary_for-newsletter-and-website.pdf.
- Brehmer, Collin, Christina Norris, Karoline K. Barkjohn, Mike H. Bergin, Junfeng Zhang, Xiaoxing Cui, Yanbo Teng, Yinping Zhang, Marilyn Black, Zhen Li, and James J. Schauer. "The Influence of Indoor Air Cleaners on the Oxidative Potential and Sources of Metals in Indoor, Outdoor, and Personal Exposure of School Aged Children to

- PM_{2.5} in Suburban Shanghai, China.” Presented at Indoor Air 2020 – The 16th International Conference of Indoor Air Quality and Climate, Virtual, November 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/IA2020_ExtAbstract_final_CB.pdf.
- Davis, Aika, Jordan Cohen, Peter Barry Ryan, Debra Harris, and Marilyn Black. “An Evaluation of Flame Retardant Exposure Routes from Upholstered Furniture.” Presented at Indoor Air 2020 – The 16th International Conference of Indoor Air Quality and Climate, Virtual, November 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/03/ADavis_IA2020_ExtAbstract5.doc.pdf.
- Norris, Christina, Michael H. Bergin, Yinping Zhang, Ross Edwards, Chinmay Ghoroi, Karoline K. Barkjohn, Junfeng Zhang, Marilyn Black, and James J. Schauer. “Quantifying Volatile Organic Compounds and Their Sources in Residences in Ahmedabad and Gandhinagar, India, and in Suburban Shanghai, China.” Presented at Indoor Air 2020 – The 16th International Conference of Indoor Air Quality and Climate, Virtual, November 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/IA2020_ExtAbstract_final_Norris.pdf.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. “Particle and Volatile Organic Compound Emissions from 3D Printers and Their Potential Exposure Risks.” Presented at Indoor Air 2020 – The 16th International Conference of Indoor Air Quality and Climate, Virtual, November 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/04/Indoor-air-2020-3DP-ext-abstract_2.pdf.
- Black, Marilyn, Aika Davis, and Qian Zhang. “NFP Chemical Safety-Human Health Research: ‘Science for a Safer, Healthier Tomorrow.’” Presented at the William Henry Merrill Society Webinar, Virtual, October 21, 2020.
- Black, Marilyn, and Peter Barry Ryan. “Keeping Your Buildings Healthy: Managing 3D Printer Emissions for Occupant Safety and Health.” Presented at the Environmental Stewardship, Utilities and Sustainability (ESUS) Community Webinar, Virtual, October 20, 2020. <https://www.youtube.com/watch?v=pxJvICLC0Gg>.
- Black, Marilyn. “3D Printing and Additive Manufacturing.” Presented at the Association of Southeast Asian Nations (ASEAN) Consultative Committee on Standards and Quality Webinar, Virtual, October 16, 2020.
- Zhang, Qian, Marilyn Black, and Rodney J. Weber. “Particle Emissions and Chemical Emissions from Fused Filament Fabrication 3D Printers Using Emerging Filaments Including Metals.” Presented at the 38th American Association for Aerosol Research (AAAR) Annual Conference, Virtual, October 6, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/AAAR-2020-Abstract-1.pdf>.
- Davis, Aika, Qian Zhang, and Marilyn Black. “VOC Emissions and Exposure from E-Cigarettes.” Presented at the International Society of Exposure Science 30th Annual Meeting (ISES 2020), Virtual, September 21, 2020. https://chemicalinsights.ul.org/wp-content/uploads/PO37_Davis_Aika_PDFv2-1.pdf.
- Thomas, Treye, Yong Qian, Mariana Farcas, Timothy R. Nurkiewicz, Sameer Patel, Aleksandr Stefaniak, and Qian Zhang. “Toxicological Exposure and Risk Assessment of Emissions from 3D Printers.” Presented at the Society of Toxicology (SOT) 59th Annual Meeting and ToxExpo, Virtual, June 18, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2020/07/Toxicological-Exposure-and-Risk-Assessment-of-Emissions-from-3D-Printers.pdf>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. “Emissions from Consumer Level 3D Printers.” Presented at the Society of Toxicology (SOT) 59th Annual Meeting and ToxExpo, Virtual, June 18, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/04/NEW-SOT2020_Emissions-from-consumer-3D-printers-2.pdf.
- Black, Marilyn, and Dwayne Sloan. “Fire Retardants and the Need to Balance Human Health and Fire Safety in the Built Environment.” Presented at the National Fire Protection Association (NFPA) Conference & Expo, Virtual, June 17, 2020.
- Davis, Aika, Aleksandr Stefaniak, Rodney J. Weber, Qian Zhang, and Marilyn Black. “Emissions, Exposure, and Health Impact of 3D Printing Processes.” Presented at the American Industrial Hygiene Conference & Expo (AIHce 2020), Virtual, June 8, 2020.

- Davis, Aika, Marilyn Black, and Debra Harris. "A Study of Flame Retardants in Lounge Chairs and Electronics and Their Impact on Emission, Exposure, and Flammability." Presented at the American Chemical Society (ACS) Spring 2020 National Meeting & Expo, Virtual, March 22, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2020/04/ACS-2020-Philadelphia-abstract.pdf>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Emissions from Consumer Level 3D Printers and Their Potential Health Impacts." Presented at the American Chemical Society (ACS) Spring 2020 National Meeting & Expo, Virtual, March 22, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2020/04/ACS-2020-3DP-abstract.pdf>.
- Black, Marilyn, and Debra Harris. "Are Flame Retardant Issues Resolved?" Presented at the Sustainable Furnishings Council Essentials Webinar, Virtual, February 25, 2020. <https://vimeo.com/394971739>.
- Zhang, Qian, and Aika Davis. "3D Printing: Emissions and Exposure Mitigation Methods." Presented at the Institute of Electrical and Electronics Engineers (IEEE) Computer Society Chicago Chapter Webinar, Virtual, February 25, 2020.
- He, Linchen, Zhen Li, Yanbo Teng, Xiaoxing Cui, Karoline K. Barkjohn, Christina Norris, Lin Fang, Lili Lin, Qian Wang, Xiaojian Zhou, Jianguo Hong, Feng Li, Yinping Zhang, James J. Schauer, Marilyn Black, Michael H. Bergin, and Junfeng (Jim) Zhang. "Associations of Personal Exposure to Air Pollutants with Airway Mechanics and Lung Function in Children with Asthma." Presented at the International Society for Environmental Epidemiology and the International Society for Exposure Science Asia Chapter (ISEE-ISES AC) Meeting, Daegu, South Korea, October 18, 2019.
- Davis, Aika, Debra Harris, and Marilyn Black. "A Study of Chemical Exposure from Consumer Products Used in Residential Environments." Presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 2019 Annual Conference, Kansas City, MO, June 25, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2020/04/ADAVIS-ASHRAE-2019_extended_Abstract3.5.pdf.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Particle and Chemical Emissions from 3D Printers and Their Potential Health Impacts." Presented at the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 2019 Annual Conference, Kansas City, MO, June 25, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2020/04/Extended_Abstract_ASHRAE_3DP_3qz.pdf.
- Zhang, Qian, and Aika Davis. "Particle and Chemical Emissions from Additive Manufacturing." Presented at the RAPID + TCT 2019 Conference, Detroit, MI, May 21, 2019. <https://chemicalinsights.ul.org/wp-content/uploads/2020/04/RAPID-TCT-abstract-v2.pdf>.
- Zhang, Qian, Aika Davis, Marilyn Black, and Rodney Weber. "Potential Health Impacts of Particle and Volatile Organic Compound Emissions from Consumer Level 3D Printers." Presented at the American Chemical Society (ACS) Spring 2019 National Meeting & Expo, Orlando, FL, April 3, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2020/04/2019-ACS_3DP_abstract_v2.pdf.
- Weber, Rodney, Qian Zhang, Jenny Wong, Aika Davis, and Marilyn Black. "Characterization of Particle and Chemical Emissions from 3D Printers." Presented at the United States Environmental Protection Agency (U.S. EPA) Webinar, Virtual, February 1, 2019.
- Johnson, Karoline, Shiyang Ma, Michael Bergin, Christina Norris, Tongshu Zheng, Xiaoxing Cui, James Schauer, Yinping Zhang, Marilyn Black, and Junfeng Zhang. "The Influence of Air Filtration on Indoor Air Pollution and Children's Personal Exposure to PM_{2.5} and Ozone in Shanghai, China." Presented at the American Geophysical Union (AGU) Joint International Network in Geoscience (JING) Meeting on Atmospheric PM_{2.5}, Xi'an, China, October 16, 2018.
- Black, Marilyn. "Emissions and Health Hazards from Consumer Level 3D Printers." Presented at the Quantifying Exposure to Engineered Nanomaterials Workshop by the U.S. Consumer Product Safety Commission and Department of Labor, Washington, DC, October 1, 2018.

- Davis, Aika, and Marilyn Black. "Emissions and Health Hazards from Consumer Level 3D Printers." Presented at the Institute of Electrical and Electronics Engineers (IEEE) Product Safety Engineering Society (PSES) Chicago Chapter, Virtual, September 26, 2018.
- Johnson, Karoline, Shiyan Ma, Michael Bergin, Christina Norris, Tongshu Zheng, Xiaoxing Cui, James Schauer, Yinping Zhang, Marilyn Black, and Junfeng Zhang. "Children's Personal and Microenvironmental Exposures to PM_{2.5} and Ozone in Shanghai, China." Presented at the 2018 Air Sensors International Conference (ASIC), Oakland, CA, September 12, 2018. <https://chemicalinsights.ul.org/wp-content/uploads/2018/10/Air-Sensors-International-Conference-2018.pdf>.
- Johnson, Karoline, Christina Norris, Tongshu Zheng, Michael Bergin, James Schauer, Junfeng Zhang, Marilyn Black, and Yinping Zhang. "Deployment of Low-Cost Sensors to Assess the Impacts of Portable Air Filtration on Indoor PM_{2.5} and Associated Personal Exposure." Presented at the 10th International Aerosol Conference, St. Louis, MO, September 2, 2018.
- Zhang, Qian, Michal Pardo, Jenny P. S. Wong, Aika Y. Davis, Marilyn S. Black, Yinon Rudich, and Rodney J. Weber. "Toxicity of Particles Generated from a Consumer Fused Deposition Modeling 3D Printer Using Animal, Cellular and Acellular Models." Presented at the 10th International Aerosol Conference, St. Louis, MO, September 2, 2018. https://chemicalinsights.ul.org/wp-content/uploads/2018/10/IAC_poster_qian_2-1.pdf.
- Davis, Aika, Marilyn Black, and Debra Harris. "A Study on Flame Retardants in Residential Furniture and Impact on Human Exposure and Flammability Control." Presented at the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISES–ISEE) 2018 Joint Annual Meeting, Ottawa, Canada, August 26, 2018.
- Norris, Christina, Fang Lin, Karoline K. Johnson, James J. Schauer, Junfeng (Jim) Zhang, Yinping Zhang, Marilyn Black, and Michael Bergin. "Volatile Organic Compounds in Homes in Shanghai, China: Identification of Pollutant Sources and Impact of Air Purifier Use on Pollutant Levels." Presented at the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISES–ISEE) 2018 Joint Annual Meeting, Ottawa, Canada, August 26, 2018.
- Fang, Lin. "Characteristics and Inhalation Cancer Risks Assessment of Exposure to VOCs in 20 Asthmatic Children's Homes in Shanghai." Presented at Indoor Air 2018 – The 15th International Conference of Indoor Air Quality and Climate, Philadelphia, PA, July 24, 2018.
- Weber, Rodney, Qian Zhang, Aika Davis, and Marilyn Black. "Emissions from Consumer Fused Deposition Modeling 3D Printers and Their Potential Health Impact." Presented at Indoor Air 2018 – The 15th International Conference of Indoor Air Quality and Climate, Philadelphia, PA, July 24, 2018. https://chemicalinsights.ul.org/wp-content/uploads/2018/10/IA2018_abstract_4.pdf.
- Black, Marilyn. "Human Health in the Built Environment: A Study on Chemical Exposure Risk and Flammability of Upholstered Furniture and Other Consumer Products." Presented at NeoCon 2018, Chicago, IL, June 1, 2018.
- Bergin, Michael H. "Assessing the Impacts of Air Filtration on Indoor and Personal Exposure Relevant Concentrations of PM_{2.5} and Volatile Organic Compounds in Suburban Shanghai, China." Presented at the Lawrence Berkeley National Laboratory Workshop on Energy and Environment of Residential Buildings, China, 2018.
- Johnson, Karoline, Michael Bergin, Christina Norris, Junfeng Zhang, Yinping Zhang, and James Schauer. "The Application of Low-Cost Air Quality Sensors to Monitor Portable Air Filtration Device Performance and Personal Exposure in Beijing, China." Presented at the 36th American Association for Aerosol Research (AAAR) Annual Conference, Raleigh, NC, October 17, 2017.
- Zhan, Ying, Karoline Johnson, Christina Norris, Martin M. Shafer, Mike H. Bergin, Yinping Zhang, Junfeng Zhang, and James J. Schauer. "The Influence of Air Cleaners on Concentrations of Indoor Particulate Matter Components and Oxidative Potential in Beijing, China." Presented at the 36th American Association for Aerosol Research (AAAR) Annual Conference, Raleigh, NC, October 17, 2017.

- Zhang, Qian, Girish Sharma, Jenny P. S. Wong, Aika Y. Davis, Marilyn S. Black, Pratim Biswas, and Rodney J. Weber. "Investigating Particle Emissions from a Consumer Fused Deposition Modeling 3D Printer with a Lognormal Moment Aerosol Dynamic Model." Presented at the 36th American Association for Aerosol Research (AAAR) Annual Conference, Raleigh, NC, October 17, 2017. <https://chemicalinsights.ul.org/wp-content/uploads/2017/10/AAAR-Poster-Oct.-2017.pdf>.
- Weber, Rodney, Qian Zhang, Jenny Wong, Aika Davis, and Marilyn Black. "Fine Particulate and Chemical Emissions from FFF/Desktop 3D Printers." Presented at the Additive Manufacturing Users Group (AMUG) Conference, Chicago, IL, March 19, 2017. <https://chemicalinsights.ul.org/wp-content/uploads/2018/10/ADavisAMUG2017-03222017-sharable.pdf>.
- Davis, Aika, Marilyn Black, and Stephen Kerber. "Chemical Exposures Related to Upholstered Furniture and Other Consumer Products." Presented at Indoor Air 2016 – The 14th International Conference of Indoor Air Quality and Climate, Ghent, Belgium, September 14, 2016.
- Davis, Aika, Marilyn Black, Qian Zhang, Jenny P. S. Wong, and Rodney Weber. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." Presented at Indoor Air 2016 – The 14th International Conference of Indoor Air Quality and Climate, Ghent, Belgium, September 14, 2016. <https://chemicalinsights.ul.org/wp-content/uploads/2017/06/Doc-5-Indoor-Air-2016-Fine-Particulate-and-Chemical-Emissions-from-Consumer-3D-Printers.pdf>.
- Weber, Rodney, Qian Zhang, Jenny Wong, Marilyn Black, and Aika Davis. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." Presented at Printing for Fabrication 2016 – The 32nd International Conference on Digital Printing Technologies (NIP), Manchester, UK, September 14, 2016.
- Davis, Aika, Marilyn Black, Qian Zhang, Jenny P. S. Wong, and Rodney Weber. "Fine Particulate and Chemical Emissions from Desktop 3D Printers." Presented at American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 2016 Annual Conference, St. Louis, MO, June 25, 2016. <https://chemicalinsights.ul.org/wp-content/uploads/2017/06/Doc-4-ASHRAE-2016-Fine-Particulate-and-Chemical-Emissions-from-Desktop-3D-Printers.pdf>.
- Black, Marilyn, and Debra Harris. "Chemical Exposure from Upholstered Furniture and Other Consumer Products." Presented at NeoCon 2016, Chicago, IL, June 1, 2016.
- Zhang, Qian, Jenny P. S. Wong, Aika Y. Davis, Marilyn S. Black, and Rodney J. Weber. "Emissions from Consumer 3D Printers." Presented at the 34th American Association for Aerosol Research (AAAR) Annual Conference, Minneapolis, MN, October 1, 2015. <https://chemicalinsights.ul.org/wp-content/uploads/2017/06/Doc-3-AAAR-Emissions-from-Consumer-3D-Printers.pdf>.

STANDARDS AND GUIDANCE DOCUMENTS

- Underwriters Laboratories Inc. *UL 200D: Science Education and Research on Vaping and Interventions for Community Engagement (SERVICE)*. Underwriters Laboratories, Inc.: Marietta, GA, June 18, 2025. https://shopulstandards.com/ProductDetail.aspx?productId=UL200D_1_C_20250618.
- Underwriters Laboratories Inc. *UL 200C: Guidance and Practical Strategies for Reducing Public Health Impacts of Wildland-Urban Interface (WUI) Fires on Community Populations*. Underwriters Laboratories, Inc.: Marietta, GA, October 14, 2024. https://wildfirehealthrisks.org/wp-content/uploads/2024/10/UL200C_Public-Health-Impacts-of-WUI-Fires.pdf
- American National Standards Institute (ANSI). *ANSI/CAN/UL 2904: 2023 Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers*. American National Standards Institute: Washington, DC, May 26, 2023.

Underwriters Laboratories Inc. *UL 200B: Safe Use of 3D Printing for Institutions of Higher Education*. Underwriters Laboratories Inc.: Marietta, GA, May 8, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/05/UL-200B_1.pdf.

Underwriters Laboratories Inc. *UL 200A: Use of DIY Filtration Devices During Wildfires*. Underwriters Laboratories Inc.: Marietta, GA, April 19, 2022. https://chemicalinsights.ul.org/wp-content/uploads/UL-200A_1_20220413.pdf.

Underwriters Laboratories Inc. *UL 118F: Managing Fire and Chemical Exposure Risks of Residential Upholstered Furniture*. Underwriters Laboratories Inc.: Marietta, GA, June 7, 2021. https://chemicalinsights.ul.org/wp-content/uploads/UL-118F_04.19.21_FINAL.pdf.

American National Standards Institute (ANSI). *ANSI/CAN/UL 2904: Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers*. American National Standards Institute: Washington, DC, 2019.

TECHNICAL REPORTS

Chemical Insights Research Institute. *Additional Household Dust Data to Supplement Report R410: Lahaina Environmental Assessment Project (LEAP) Household Level Ash and Soil Sampling within a Wildland-Urban Interface Fire-Impacted Area: Spatial Determination of Pollutants*. Report 410-Add.1. UL Research Institutes. May 22, 2025. <https://doi.org/10.60752/102376.29119199.v1>.

Chemical Insights Research Institute. *Lahaina Environmental Assessment Project (LEAP): Household Level Ash and Soil Sampling within a Wildland-Urban Interface Fire-Impacted Area: Spatial Determination of Pollutants*. Report 410. UL Research Institutes. May 22, 2025. UL Research Institutes. <https://doi.org/10.60752/102376.29119064.v1>.

Chemical Insights Research Institute. *Additional Chemical Emissions Data to Supplement Report R440: Laboratory-Scale Study to Model Wildland-Urban Interface Combustion Emissions*. Report 440_addendum. UL Research Institutes. March 3, 2025. <https://doi.org/10.60752/102376.28454567.v2>.

Chemical Insights Research Institute. *Impact of Fire Barriers in Upholstered Furniture on Fire Suppression and Chemical Exposure*. Report 450. UL Research Institutes. February 20, 2025. <https://doi.org/10.60752/102376.28515968.v1>.

Chemical Insights Research Institute; W.V.U. *Laboratory-Scale Study to Model Wildland-Urban Interface Combustion Emissions*. Report 440, UL Research Institutes. February 11, 2025. <https://doi.org/10.60752/102376.28454618.v1>.

Chemical Insights Research Institute. *Per- and Polyfluoroalkyl Substances (PFAS) and Human Health: Exposures and Effects from Occupational Textiles*. Report 430. UL Research Institutes. February 11, 2025. <https://doi.org/10.60752/102376.28515878.v1>.

Chemical Insights Research Institute. *The Effect of Wildfires and the Wildland Urban Interface (WUI) on Indoor Air Quality and Health in Residential Homes*. Report 420. UL Research Institutes. February 5, 2025. <https://doi.org/10.60752/102376.28515788.v1>.

Chemical Insights Research Institute. *Microchamber Protocols for Material Changes with Extreme Heat and Moisture*. Report 410. UL Research Institutes. January 22, 2025. <https://doi.org/10.60752/102376.28515728.v1>.

Chemical Insights Research Institute; ASID. *ASID Impact of Design Brief: Climate Impacts on Building Resilience and Human Health – Extreme Heat Impacts on Interior Design Materials*. ASID/CIRI Insight Brief #2. ASID/CIRI. November 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/Insights-Brief_Effects-of-Extreme-Heat-on-Materials_ASIDCIRI_Final-11252024.pdf.

Chemical Insights Research Institute. *Impact of 3D Printing on Indoor Air Quality in a University Dental School*. Report 390, November 20, 2024. <https://doi.org/10.60752/102376.28454618.v1>.

- Chemical Insights Research Institute. *Assessing the Influence of Indoor Air Filtration on the Health of Asthmatic Children in China*. Report 370. UL Research Institutes. October 31, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/10/R370_Air_Filtration_Health_China.pdf.
- Chemical Insights Research Institute. *A Pilot Study to Quantify Volatile Organic Compounds and Their Sources Inside and Outside Homes in Urban India*. Report 380. UL Research Institutes. October 31, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/10/R380_VOC_Sources_India.pdf.
- Chemical Insights Research Institute. *Impact of 3D Printing on Indoor Air Quality in Educational Settings*. Report 360. UL Research Institutes. August 16, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/08/R360_3DP_081624.pdf.
- Chemical Insights Research Institute. *A Research Study of 3D Printing in a University Dental School*. Report 350. UL Research Institutes. April 4, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/04/CIRI_R350_3DP_Report_040424.pdf.
- Chemical Insights Research Institute; ASID. *ASID Impact of Design Brief: Climate, Building Resiliency, Human Health, Extreme Weather Impacts on Interior Design Materials*. ASID/CIRI Insight Brief #1. ASID/CIRI. March 2024. <https://www.asid.org/resources/resources/view/resource-center/358>.
- Chemical Insights Research Institute. *Phase 1A PFAS and Human Health: Exposures and Effects from Consumer Textiles*. Report 340. UL Research Institutes. December 18, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/12/CIRI_R340_PFAS.pdf.
- Chemical Insights Research Institute. *The Effect of Wildfires and Wildland Urban Interface (WUI) on Indoor Air Quality and Health in Residential Homes: Pilot Study*. Report 330. UL Research Institutes. August 31, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/08/Chemical-Insights_Indoor-Air-Quality_Report-330_final.pdf.
- Chemical Insights Research Institute. *Characterization of Aerosol Emissions from Electronic Nicotine Delivery Systems (ENDS)*. Report 320. UL Research Institutes. July 28, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/07/Chemical-Insights_ENDS-Report_Final.pdf.
- Chemical Insights Research Institute. *The Impact of 3D Printing on Indoor Air Quality in a University Maker Center*. Report 290. UL Research Institutes. May 30, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/05/Chemical-Insights_3D-Makerspace_Technical-Report_Final.pdf.
- Chemical Insights Research Institute. *Extreme Weather Impact on Indoor Material Emissions*. Report 300. UL Research Institutes. April 30, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/06/Chemical-Insights_MaterialEmissions-R300_Fin.pdf.
- Chemical Insights Research Institute. *Volatile Organic Compounds (VOCs) Released from Electronic Nicotine Delivery Systems (ENDS)*. Report 280. UL Research Institutes. November 30, 2022. https://chemicalinsights.ul.org/wp-content/uploads/2022/11/Chemical-Insights_VOC-Report-11.29.22-1.pdf.
- Chemical Insights Research Institute. *Final Report: Dosimetric and Toxicological Analysis of 3D Printer Emitted Particles*. Report 270. UL Research Institutes. September 18, 2022. https://chemicalinsights.ul.org/wp-content/uploads/Chemical-Insights_3D-Toxicity-Report_final.pdf.
- Chemical Insights Research Institute. *A Summary Report: Research Data on Upholstered Furniture Fire Barriers*. Report 260. UL Research Institutes. November 29, 2021. https://chemicalinsights.ul.org/wp-content/uploads/R260_Barrier-Research_112921.pdf.
- Chemical Insights Research Institute. *Physiochemical and Toxicological Characterization of Electronic Nicotine Delivery Systems*. Report 250. UL Research Institutes. September 28, 2021. https://chemicalinsights.ul.org/wp-content/uploads/R250_Physiochemical_and_Toxicological_Characterization_of_Electronic_Nicotine_Delivery_Systems.pdf.

[content/uploads/R250_Physicochemical-and-Toxicological-Characterization-of-Electronic-Nicotine-Delivery-Systems_092821.pdf](#).

Chemical Insights Research Institute. *Filtration Strategies for Reducing Chemical and Particle Emissions from 3D Printing*. Report 210. UL Research Institutes. July 7, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/3DP-Filtration-2021.pdf>.

Chemical Insights Research Institute. *Wildfire Safety Research: An Evaluation of DIY Air Filtration*. Report 200. UL Research Institutes. July 1, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/2021/07/DIY-Box-Fan-Report-2021.pdf>.

Chemical Insights Research Institute. *A Summary Report: Particle and Chemical Emissions from a Vat Photopolymerization 3D Printer*. Report 240. UL Research Institutes. May 1, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/2021/05/2021-Summary-Report-Particle-and-Chemical-Emissions-from-a-Vat-Photopolymerization-3D-Printer.pdf>.

Chemical Insights Research Institute. *A Summary Report: The Effect of Filtration on Particle and Chemical Emissions from a 3D Printer*. Report 170. UL Research Institutes. March 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/2021-Summary-Report-Effects-of-Filtration-on-Particle-and-Chemical-Emissions-from-3D-Printers_revised.pdf.

Chemical Insights Research Institute. *Effects of a Filter Setup on Particle and Chemical Emissions from a 3D Printer*. Report 180. UL Research Institutes. February 10, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/Website-Metal-Analysis-Summary-Report-180.pdf>.

Chemical Insights Research Institute. *Toxicological Exposure and Risk Assessment of Emissions from 3D Printers*. Report 230. UL Research Institutes. July 22, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2020/07/Toxicological-Exposure-and-Risk-Assessment-of-Emissions-from-3D-Printers.pdf>.

Chemical Insights Research Institute. *2019 Annual Summary Report: 3D Printer Emission Research*. Report 140. UL Research Institutes. May 22, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2019-3D-Printing-Annual-Report.pdf>.

Chemical Insights Research Institute. *2019 Executive Summary Report: 3D Printer Emission Research*. Report 130. UL Research Institutes. May 1, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2019-3D-Printing-Summary-Report.pdf>.

Chemical Insights Research Institute. *Human Health in the Built Environment: A Study of Chemical Exposure Risk and Flammability of Upholstered Furniture and Consumer Electronics*. Report 050. UL Research Institutes. April 1, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/04/Human-Health-in-the-Built-Environment_FINAL.pdf.

Chemical Insights Research Institute. *Summary Report: Characterization of Volatile Organic Compound Emissions from Consumer Level 3D Printers and Their Relationship with Particle Emissions*. Report. UL Research Institute. December 1, 2018. https://chemicalinsights.ul.org/wp-content/uploads/2018/12/VOCs_3DP_112018.pdf.

Chemical Insights Research Institute. *Summary Report: Chemical Composition and Toxicity of Particles Emitted from a Consumer-Level 3D Printer Using Various Materials*. Report. UL Research Institute. November 1, 2018. https://chemicalinsights.ul.org/wp-content/uploads/2018/11/Toxicity_3DPrinting.pdf.

Chemical Insights Research Institute. *Research Report and Preliminary Study: Chemical Exposure & Flammability Study on Upholstered Furniture from the U.S. and U.K.* Report 010. UL Research Institute. June 1, 2016. https://chemicalinsights.ul.org/wp-content/uploads/2019/03/USUK_PreliminaryStudy.pdf.

Chemical Insights Research Institute. *3D Printing: Health Effects of Ultrafine Particle Emissions*. Report. UL Research Institute. August 1, 2015. https://chemicalinsights.ul.org/wp-content/uploads/2018/12/Emory_UFPS_2015.pdf.

Chemical Insights Research Institute. *Ultrafine Particles: An Update – What, Where, Why, Concern*. Report. UL Research Institute. June 1, 2015. <https://chemicalinsights.ul.org/wp-content/uploads/2017/06/Doc-2-Ultrafine-Particles-An-Update-What-Where-Why-Concern.pdf>.

TECHNICAL BRIEFS, BULLETINS, APPLICATION NOTES, SCIENCE INSIGHTS, AND FACT SHEETS

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on the Use of Indoor Air Filtration to Reduce PM2.5 Cardio-Metabolic Effects in At-Risk Individuals." November 25, 2025. <https://doi.org/10.60752/102376.30715268.v1>.

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on the Spatial Variability and Physicochemical Characterization of Wildland-Urban Interface Ash and Indoor Dust from Los Angeles Fires." November 11, 2025. <https://doi.org/10.60752/102376.30593405.v1>.

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on the Development of Single Particle Inductively Coupled Plasma Mass Spectrometry Methodology for Elemental Characterization of Environmental Particulates." Technical Brief 830. August 8, 2025. <https://doi.org/10.60752/102376.29864150>.

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on Characterizing Emissions from Small-Scale Lithium-Ion Battery Manufacturing." Technical Brief 820. August 7, 2025. <https://doi.org/10.60752/102376.29847362>.

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on the Characterization of Emissions and Residues Associated with Electric and Internal Combustion Engine Vehicle Fires." Technical Brief 810. August 7, 2025. <https://doi.org/10.60752/102376.29847290.v2>.

UL Research Institutes' Chemical Insights. "A Strategic Research Initiative on the Effect of Plastic Weathering and Plastic Additives and Contaminants on Organismal Health." Technical Brief 800. August 7, 2025. <https://doi.org/10.60752/102376.29847416>.

Chemical Insights Research Institute. "A Strategic Research Initiative on the Effect of Plastic Weathering and Associated Additives on Organismal Health." Technical Brief 800. June 25, 2025. <https://doi.org/10.60752/102376.29847416.v1>.

Chemical Insights Research Institute. "A Strategic Research Initiative on Quantification in Soil Samples to Better Understand Residential Exposure." Technical Brief 790. June 23, 2025. <https://doi.org/10.60752/102376.29382782>

Chemical Insights Research Institute. "A Strategic Research Initiative on the Socio-Demographic Description of Communities Residing in the Wildland Urban Interface (WUI) across the U.S." Technical Brief 780. May 7, 2025. <https://doi.org/10.60752/102376.28938179.v1>.

Chemical Insights Research Institute. "A Strategic Research Initiative on Assessing the Safety and Quality of Synthetic and Plant-Derived CBD Personal Care Products." Technical Brief 770. April 17, 2025. <https://doi.org/10.60752/102376.28806998.v1>.

Chemical Insights Research Institute. "Air Cleaning Devices and Technologies for Indoor Air Quality Management." Technical Brief 760. April 8, 2025. <https://doi.org/10.60752/102376.28752464.v1>.

Chemical Insights Research Institute. "A Strategic Research Initiative to Evaluate the Human Health Impacts of Li-Ion Battery Thermal Runaway Exposures." Technical Brief 750 April 8, 2025. <https://doi.org/10.60752/102376.28752395.v1>.

Chemical Insights Research Institute. "A Strategic Research Initiative on the Characterization of Volatile Organic Compound Emissions from 3D Printing Resins." Technical Brief 740. April 8, 2025. <https://doi.org/10.60752/102376.28752302.v1>.

- Chemical Insights Research Institute. "A Strategic Research Initiative on Field Studies to Assess Impacts of 3D Printing on a University Campus." Technical Brief 730. March 4, 2025. <https://doi.org/10.60752/102376.28528127.v1>.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Indoor Air Quality Impact of 3D Printing with Dental Resins." Technical Brief 720. January 13, 2025. <https://doi.org/10.60752/102376.28566365.v1>.
- Chemical Insights Research Institute. *A Strategic Research Initiative on the Cardiopulmonary Detriments of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) Exposure in Firehouses*. Technical Brief 710. November 19, 2025. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/TB_710_Cardiopulmonary_Detriments_PFAS_Firehouses.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative: Chemical Analysis of WUI Fire Emissions." Technical Brief TB 700. November 19, 2025. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/TB_700_Chemical_Analysis_WUI_Fire_Emissions.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on Microchamber Protocols for Material Changes with Extreme Heat and Moisture." Technical Brief TB 690. November 19, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/TB_690_Microchamber_Protocols_HeatMoisture.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for Environmental Field Study Knowledge." Technical Brief TB 680. November 19, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/TB_680_Environmental_Field_Study_Knowledge.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on Research Data Visualization and An Online Data Portal." Technical Brief TB 670. November 19, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/11/TB_670_Data_Visualization.pdf.
- Chemical Insights Research Institute. "Exposure and Health Implications of Per- and Polyfluoroalkyl Substances (PFAS)." Science Insights SI 010. October 31, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2023/01/ScienceInsights_010_Final_2023.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Combined Impact of Urban Heat and Indoor Air Quality Exposure on Human Health." Technical Brief TB 660. July 2, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/07/TB_660_Urban_Heat_IAQ_Health.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Development of a Dust Volatile Organic Compound Method for Chemical Characterization of Settled Dust and Environmental Residues." Technical Brief TB 650. May 14, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/05/WUI_TB_650.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on Wildland Urban Interface (WUI) Fires and Community Health in Maui." Technical Brief TB 640. May 14, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/05/Maui_TB_640_2024.pdf.
- Chemical Insights Research Institute. "A Study on the Metal Composition of Particles Emitted from 3D Printing." Technical Brief TB 630. January 5, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/01/TB_630_Metal_Composition_3DPrinting_Emissions.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on Chemicals of Emerging Concern and Respiratory Health Risks." Technical Brief TB 620. December 18, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/12/TB-620-A-Strategic-Research-Initiative-on-Chemicals-of-Emerging-Concern-and-Respiratory-Health-Risks.pdf>.
- Chemical Insights Research Institute. "A Strategic Research Initiative on Creation of a Multimodal Platform for Genotoxicity Testing for Chemicals of Emerging Concern." Technical Brief TB 610. December 18, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/12/TB-610-A-Strategic-Research-Initiative-on-Creation-of-a-Multimodal-Platform-for-Genotoxicity-Testing-for-Chemicals-of-Emerging-Concern-2.pdf>.
- Chemical Insights Research Institute. "Guidelines for Ventilation of Buildings Against Infectious Viruses". Technical Brief TB 600. October 18, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/10/TB-600-Ventilation-of-Buildings-Against-Infectious-Viruses-final-4.pdf>.

- Chemical Insights Research Institute. "A Strategic Research Initiative on the Effect of Wildfires and the Wildland Urban Interface (WUI) on Indoor Air Quality and Health in Residential Homes." Technical Brief TB 590. August 8, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/08/TB-590_Residential-Homes_final.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Impact of Extreme Weather on Indoor Air Quality" Technical Brief TB 580. August 8, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/08/TB-580_Extreme-Weather_final.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on Periodontal Disease and Electronic Nicotine Delivery Systems (ENDS) Usage." Technical Brief TB 570. July 28, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/07/TB-570_ENDS.pdf.
- Chemical Insights Research Institute. "Tetrahydrofuran – A Common Air Pollutant." Technical Brief TB 560. July 26, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/07/TB-560_Tetrahydrofuran.pdf.
- Chemical Insights Research Institute. "Tetradecamethylcyclheptasiloxane – A Common Air Pollutant." Technical Brief TB 550. July 26, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/07/TB-550_Tetradecamethylcyclheptasiloxane.pdf.
- Chemical Insights Research Institute. "Second Edition of ANSI/CAN/UL 2904: Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers." Technical Brief TB 540. June 22, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/06/TB-540_3D-Printers_fin.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Characterization of Atmospheric Contributions of Wildland Urban Interface Fire Emissions." Technical Brief TB 530. June 22, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/06/TB-530_Wildland-Urband_Interface-Fire-Emissions_Fin-1.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for the Optimization of a Textile Fire Barrier Without Flame Retardants for Upholstered Furniture." Technical Brief TB 520. June 1, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/06/TB-520_Barrier_-Fin.pdf.
- Chemical Insights Research Institute. "Strategies for Cleaning Hazardous Settled Dust after a Smoke Event." Application Note AN 300. March 7, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/03/AN300_Strategies-for-Cleaning-Hazardous-Settled-Dust-after-a-Smoke-Event.pdf.
- Chemical Insights Research Institute. "When the Dust Settles: Reducing Chemical and Particle Health Risks Following a Large-Scale Urban Fire." Technical Brief TB 510. March 7, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/03/TB510_When-the-Dust-Settles_Reducing-Chemical-and-Particle-Health-Risks-Following-a-Large-Scale-Urban-Fire.pdf.
- Chemical Insights Research Institute. "Health Hazards of Building Dust." Technical Brief TB 500. March 7, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/03/TB-500_Health_Hazardsof_Building_Dust.pdf.
- Chemical Insights Research Institute. "Per- and Polyfluoroalkyl Substances (PFAS)." Fact Sheet FS 030. February 17, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/02/External-Chemical-Insights_FS030_PFAS_final_2023.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative on the Impact of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) on Human Health." Technical Brief TB 490. January 31, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/02/TB-490_PFAS_final-2023.pdf.
- Chemical Insights Research Institute. "4-Phenylcyclohexene – A Common Air Pollutant." Technical Brief TB 480. November 30, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-480_4-Phenylcyclohexene_v2_11.28.pdf.
- Chemical Insights Research Institute. "Benzene – A Common Air Pollutant." Technical Brief TB 470. October 30, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-470_Benzene_final.pdf.

Chemical Insights Research Institute. "A Strategic Research Initiative on Air Pollution Exposure in Child Care Settings." Technical Brief TB 460. October 30, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-460_APECCS_10.7.pdf.

Chemical Insights Research Institute. "Perchloroethylene – A Common Air Pollutant." Technical Brief TB 450. September 1, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-450_Perchloroethylene.pdf.

Chemical Insights Research Institute. "Styrene – A Common Air Pollutant." Technical Brief TB 440. August 13, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-440_Styrene.pdf.

Chemical Insights Research Institute. "Naphthalene – A Common Air Pollutant." Technical Brief TB 430. June 22, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-430_Naphthalene.pdf.

Chemical Insights Research Institute. "Understanding Vaping or Electronic Nicotine Delivery Systems." Technical Brief TB 420. June 7, 2022. https://chemicalinsights.ul.org/wp-content/uploads/2022/05/TB-400_ENDS-1.pdf

Chemical Insights Research Institute. "Strategies to Protect Air Quality During Wildfires: Considerations for Do-It-Yourself Filtration Devices." Application Note AN 200. August 13, 2022. https://chemicalinsights.ul.org/wp-content/uploads/AN_200_061322.pdf.

Chemical Insights Research Institute. "2-Butoxyethanol – A Common Air Pollutant." Technical Brief TB 410. May 31, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-410_2-Butoxyethanol.pdf.

Chemical Insights Research Institute. "A Strategic Research Initiative on African American Susceptibility to Periodontal Disease due to Electronic Nicotine Delivery Systems (ENDS) Usage." Technical Brief TB 400. May 24, 2022. https://chemicalinsights.ul.org/wp-content/uploads/2022/05/TB-400_ENDS-1.pdf

Chemical Insights Research Institute. "Decamethylcyclopentasiloxane – A Common Air Pollutant." Technical Brief TB 390. April 22, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-390_Decamethylcyclopentasiloxane.pdf.

Chemical Insights Research Institute. "Methylene Chloride – A Common Air Pollutant." Technical Brief TB 380. March 30, 2022. https://chemicalinsights.ul.org/wp-content/uploads/TB-380_Methylene-Chloride.pdf.

Chemical Insights Research Institute. "Xylene – A Common Air Pollutant." Technical Brief TB 370. February 24, 2022. <https://chemicalinsights.ul.org/wp-content/uploads/Technical-Brief-Xylene.pdf>.

Chemical Insights Research Institute. "Specifying Upholstered Furniture Fire Barriers." Application Note AN 100. February 23, 2022. https://chemicalinsights.ul.org/wp-content/uploads/2022/02/AN100_Specifying_Upholstered_Furniture_Fire_Barriers.pdf

Chemical Insights Research Institute. "Ethylbenzene – A Common Air Pollutant." Technical Brief TB 350. November 23, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB350_Ethylbenzene_112321.pdf.

Chemical Insights Research Institute. "CelTox Sampler – An Overview." Technical Brief TB 360. November 19, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB360_CelTox_112921.pdf.

Chemical Insights Research Institute. "Phenol – A Common Air Pollutant." Technical Brief TB 340. October 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB340_Phenol.pdf.

Chemical Insights Research Institute. "Ethylene Glycol – A Common Air Pollutant." Technical Brief TB 330. September 28, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB330_Ethylene_glycol_092821.pdf.

Chemical Insights Research Institute. "Chemical Releases from Burning Upholstered Furniture and Electronics." Technical Brief TB 320. September 28, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB320_Chemical-Releases-from-Burning-Upholstered-Furniture-and-Electronics_092821.pdf.

Chemical Insights Research Institute. "Acetophenone – A Common Air Pollutant." Technical Brief TB 310. August 1, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/Acetophenone.pdf>.

Chemical Insights Research Institute. "Study Protocols for Indoor Air Quality Monitoring in Schools." Technical Brief TB 300. August 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/2021/08/TB-300_IAQ-Monitoring-in-Schools.pdf

Chemical Insights Research Institute. "A Strategic Research Initiative on the Dosimetric and Toxicological Analysis of 3D Printer Emitted Particles." Technical Brief TB 290. July 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/TB-290_A-Strategic-Research-Initiative-on-the-Dosimetric-and-Toxicological-Analysis-of-3D-Printer-Emitted-Particles-.pdf.

Chemical Insights Research Institute. "Acetaldehyde – A Common Air Pollutant." Technical Brief TB 280. July 1, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/Acetaldehyde.pdf>.

Chemical Insights Research Institute. "Understanding Wildfires." Technical Brief TB 260. May 25, 2021. https://chemicalinsights.ul.org/wp-content/uploads/FactSheet_Wildfires.pdf.

Chemical Insights Research Institute. "Toluene – A Common Air Pollutant." Technical Brief TB 270. May 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/FactSheet_Toluene-1.pdf.

Chemical Insights Research Institute. "Formaldehyde – A Common Air Pollutant." Fact Sheet FS 250. 2021. https://chemicalinsights.ul.org/wp-content/uploads/FactSheet_Formaldehyde.pdf.

Chemical Insights Research Institute. "A Strategic Research Initiative on Wildfires and Public Health." Technical Brief TB 230. January 2, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/Wildfire-Technical-Brief.pdf>.

Chemical Insights Research Institute. "A Strategic Research Initiative on Physiochemical and Toxicological Assessment of Electronic Nicotine Delivery System." Technical Brief TB 110. January 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/2019/11/ENDS_Technical-Brief.pdf.

Chemical Insights Research Institute. "A National Taskforce on Residential Upholstered Furniture Flammability and Human Health." Technical Brief TB 220. December 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/FFHH-Taskforce_Brief.pdf.

Chemical Insights Research Institute. "Fire Regulations and Flame Retardant Usage Trends." Technical Bulletin TB 210. August 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/FireRegulations_Brief.pdf.

Chemical Insights Research Institute. "Organic Flame Retardant Exposure." Technical Bulletin TB 200. July 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/07/FRExposure_Brief.pdf.

Chemical Insights Research Institute. "Residential Fire Statistics." Technical Bulletin TB 190, rev. 1. June 2, 2020. https://chemicalinsights.ul.org/wp-content/uploads/TB_Residential_Fire_Statistics.pdf.

Chemical Insights Research Institute. "Coronavirus Aerosol." Technical Brief TB 180. June 1, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/2020/03/Coronavirus-Aerosols.pdf>.

Chemical Insights Research Institute. "Flame Retardants: Balancing Benefits and Risks." Technical Bulletin TB 170. January 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/03/Flame-Retardants_WHO.pdf.

Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on Furniture Chemical Exposure." Technical Brief TB 130. September 6, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2020/05/FurnitureFlammability_ResearchExpansion.pdf.

Chemical Insights Research Institute. "Phase 1 Research on Chemical and Particle Emissions from 3D Printing." Fact Sheet FS 120. September 1, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/09/3DPrinting_BasicFacts.pdf.

Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on Pollutant Exposure in India." Technical Brief TB 150. September 6, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/11/IndiaAirPollution_ResearchExpansion.pdf.

- Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on Pollutant Exposure in China." Technical Brief TB 140. September 5, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/10/ChinaAirPollution_ResearchExpansion.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on 3D Printing Emission Studies." Technical Brief TB 090. September 3, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/09/3DPrint_EmissionStudies.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for Extended Research on 3D Printing School Studies." Technical Brief TB 100. September 2, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/09/3DPrint_IQSchools.pdf.
- Chemical Insights Research Institute. "VOC and Aldehyde Analysis Methods Used in Research Studies." Technical Brief TB 080. May 1, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/09/VOC_Aldehyde_Methods.pdf.
- Chemical Insights Research Institute. "Methodologies for Studying Furniture Flame Retardant Exposure." Technical Brief TB 070. April 3, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/04/FurnitureFlammability_Methodologies.pdf.
- Chemical Insights Research Institute. "Methodologies for Studying Furniture Flammability." Technical Brief TB 060. April 2, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/04/FurnitureFlammability_FlameAnalysis.pdf.
- Chemical Insights Research Institute. "Research on Chemical Exposure and Flammability Risks of Upholstered Furniture and Consumer Electronics." Technical Brief TB 050. April 1, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2019/04/FurnitureFlammability_BasicFacts.pdf.
- Chemical Insights Research Institute. "ANSI/CAN/UL 2904: Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers." Technical Brief TB 040. January 31, 2019. https://chemicalinsights.ul.org/wp-content/uploads/2022/12/ANSI-UL-2904_1_en.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for China Air Quality: The Influence of Outdoor and Indoor Air Pollution on Acute Respiratory Responses of School Children in China." Technical Brief TB 030. January 1, 2017. https://chemicalinsights.ul.org/wp-content/uploads/2019/02/ChinaStrategy_Brief.pdf.
- Chemical Insights Research Institute. "A Strategic Research Initiative for 3D Printing: Safety Convergence for Manufactured Products." Technical Brief TB 020. January 2, 2016. https://chemicalinsights.ul.org/wp-content/uploads/2019/02/3DPrint_Brief.pdf.
- UL Chemical Safety. "A Strategic Research Initiative for Furniture Flame Retardants and Flammability." Technical Brief TB 010. January 1, 2016. https://chemicalinsights.ul.org/wp-content/uploads/2019/02/FurnitureFlame_Brief.pdf.

OTHER PUBLICATIONS

- Sager, Talia. "The Emissions and Hazards of Lithium-Ion Battery Thermal Runaway | TRANSCAER." December 18, 2025. <https://www.transcaer.com/connect/blog/emissions-and-hazards-lithium-ion-battery-thermal-runaway>.
- Petters, Sarah Suda, Lindsay Diana Yee, Qian Zhang, and Robert Nishida. "Particulars Editorial Highlights 2025." *Aerosol Science and Technology* 60 (1): 1–4. <https://doi.org/10.1080/02786826.2025.2585055>.
- UL Research Institutes' Chemical Insights. "How Vaping Can Steal Your Smile." UL Research Institutes' Chemical Insights. Blog. November 11, 2025. <http://chemicalinsights.ul.org/blog/how-vaping-can-steal-your-smile/>.
- Sager, Talia. "How to Protect Buildings and Occupants from Wildfires and WUI Threats." June 16, 2025. <https://blog.ifma.org/how-to-protect-buildings-and-occupants-from-wildfires-and-wui-threats>.
- Sager, Talia. "Understanding the Impact of Wildfires and Extreme Heat on School Student and Staff Health." May 6, 2025. <https://www.nasn.org/blogs/talia-sager/2025/05/06/the-impact-of-wildfires-and-extreme-heat>.

- Black, Marilyn. "How to Stay Safe from Wildfires, No Matter Where You Live." *ShareCare*, November 18, 2024. <https://www.sharecare.com/first-aid-safety/health-effects-of-wildfire-smoke>.
- Sager, Talia. "Health Hazards in the Building Process." *Commercial Construction & Renovation*, November 17, 2024. <https://issuu.com/bocdesigninc/docs/ccr-issue.10.24/64>.
- Sager, Talia. "Extreme Heat and the Built Environment." *Commercial Construction & Renovation*, June 7, 2024. https://issuu.com/bocdesigninc/docs/ccr-issue-5_2024/70.
- Sager, Talia. "Breathe Easier: How You Can Improve Student Health Through Better Indoor Air Quality." *NASN Conference Blog*, May 8, 2024. [What School Nurses Should Know About Emerging Air Pollutants and Their Impact on Student Health](https://www.nasn.org/what-school-nurses-should-know-about-emerging-air-pollutants-and-their-impact-on-student-health)
- Saksena, Sumeet, Jim Zhang, and Marilyn Black. "Column: Wildfire Air Pollution Poses Health Risk." *Honolulu Star Advertiser*, November 19, 2023. <https://www.staradvertiser.com/2023/11/19/editorial/island-voices/column-wildfire-air-pollution-poses-health-risk/>.
- Kelly, Bert. "New Guidance for 3D Printing at Colleges and Universities." *AIHA Synergist*, June 20, 2023. <https://www.aiha.org/blog/new-guidance-for-3d-printing-at-colleges-and-universities>.
- Black, Marilyn. "Ways School Health and Facilities Staff Can Collaborate to Address IAQ." *Center for Green Schools*, May 22, 2023. <https://www.usgbc.org/articles/ways-school-health-and-facilities-staff-can-collaborate-address-iaq>.
- Zhang, Qian, and Cristi Bell-Huff. "Chemical Insights Research Institute Introduces a New Interactive Data Portal for 3D Printing Emissions Information." *3DPrint.com*, March 14, 2023. <https://3dprint.com/298525/chemical-insights-research-institute-introduces-a-new-interactive-data-portal-for-3d-printing-emissions-information/>.
- Black, Marilyn. "Creating a Healthy Indoor Environment: Reducing Chemical Air Pollutants' Impact." *FMJ*, January/February 2023. <http://fmj.ifma.org/publication/?i=778812&p=16>.
- Black, Marilyn. "Aerosol Transmission: The Science Behind Good IAQ and Safer Spaces." *FMJ*, March/April 2021. http://fmj.ifma.org/publication/?m=30261&i=699223&view=articleBrowser&article_id=3968078.
- Black, Marilyn. "Indoor Air Quality and Use of 3D Printers in Schools." *USGBC*, December 4, 2020. <https://www.usgbc.org/articles/indoor-air-quality-and-use-3d-printers-schools>.
- Black, Marilyn. "Printing Hazards: Managing 3D Printer Emissions for Safety & Health." *FMJ*, November/December 2020. <http://fmj.ifma.org/publication/?m=30261&i=679917&p=48>.
- Black, Marilyn. "Indoor Air Quality Tips Every School Should Follow Before Reopening." *The Learning Counsel: Research and Context on the Digital Education Experience*, August 11, 2020. <https://thelearningcounsel.com/articles/indoor-air-quality-tips-every-school-should-follow-reopening/>
- Black, Marilyn. "3D Printing Presents Health Risks: Tips on Protecting Your Workers." *Industry Week*, August 10, 2020. <https://www.industryweek.com/operations/safety/article/21138777/3d-printing-presents-health-risks-tips-on-protecting-your-workers>.
- Black, Marilyn. "3D Printer Emissions Under Scrutiny as Usage Grows." *Industry Today*, May 19, 2020. <https://industrytoday.com/3d-printer-emissions-under-scrutiny-as-usage-grows/>.
- Black, Marilyn. "3D Printing Safety 101: How Schools Can Safely Use 3D Printers in the Classroom." *The Learning Counsel: Research and Context on the Digital Education Experience*, April 28, 2020. <https://www.ednewsdaily.com/3d-printing-safety-101-how-schools-can-safely-use-3d-printers-in-the-classroom/>
- Black, Marilyn. "Are Flame Retardant Issues Solved?" *Furniture World News*, April 17, 2020. <https://www.furninfo.com/furniture-industry-news/11708>.

TOOLKITS

Chemical Insights Research Institute. "Clearing the Air on Wildfire Smoke: A Toolkit for Reducing Downwind Exposure Risks." Toolkit. December 10, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/12/CIRI_Clear-The-Air-Downwind_Toolkit_2024.pdf.

Chemical Insights, an Institute of Underwriters Laboratories Inc. "Specifying Residential Upholstered Furniture to Safeguard Human Health and Well-Being: A Toolkit for Reducing Fire and Chemical Risks." Toolkit. April 1, 2021. https://chemicalinsights.ul.org/wp-content/uploads/FFHH_Toolkit_042821.pdf.

Chemical Insights, an Institute of Underwriters Laboratories Inc. "3D Printer School Safety: A Guide for Supporting Indoor Air Quality & Human Health." Toolkit. December 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/07/3D_Printer_School_Safety.pdf.

Chemical Insights, an Institute of Underwriters Laboratories Inc. "3D Printer Safety: A Guide for Supporting Indoor Air Quality & Human Health." Toolkit. December 1, 2020. <https://chemicalinsights.ul.org/wp-content/uploads/3DP-General-Toolkit.pdf>.

LEARNING ASSETS

UL Research Institutes' Chemical Insights. "Comprender Los Riesgos de Vapear." Educational resource. August 19, 2025. <https://doi.org/10.60752/102376.29923070.v1>.

UL Research Institutes' Chemical Insights. "Detrás de La Nube: Los Riesgos Ocultos Del Vapeo." Educational resource. August 19, 2025. <https://doi.org/10.60752/102376.29923073.v1>.

UL Research Institutes' Chemical Insights. "¿Qué Hay Realmente En Esa Nube de Vapeo?" Educational resource. August 19, 2025. <https://doi.org/10.60752/102376.29923061.v1>.

UL Research Institutes' Chemical Insights. "¿Qué Podría Escondarse En Su Nube de Vapeo?" Educational resource. August 19, 2025. <https://doi.org/10.60752/102376.29923067.v1>.

UL Research Institutes' Chemical Insights. "What's really in that vape cloud?" Educational resource. August 12, 2025. <https://doi.org/10.60752/102376.29173454>.

UL Research Institutes' Chemical Insights. "Understanding the Risks of Vaping." Educational resource. August 12, 2025. <https://doi.org/10.60752/102376.29142308>.

UL Research Institutes' Chemical Insights. "What could be hiding in your vape cloud?" Educational resource. August 12, 2025. <https://doi.org/10.60752/102376.29141786>.

UL Research Institutes' Chemical Insights. "Behind the Cloud: The Hidden Risks of Vaping." Educational resource. August 12, 2025. <https://doi.org/10.60752/102376.29141774>.

Chemical Insights Research Institute. "PFAS Basics." Handout. May 14, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/05/PFAS_Handout_2024.pdf.

Chemical Insights Research Institute. "PFAS in the Built Environment." Handout. May 14, 2024. https://chemicalinsights.ul.org/wp-content/uploads/2024/05/PFAS_Handout_Building_Practitioners_2024.pdf.

Chemical Insights Research Institute. "Protecting Your Health After a Wildfire: Cleaning Indoor Air." Handout. November 10, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/11/Educational-Handout_Cleaning-The-Air_2023.pdf.

Chemical Insights Research Institute. "Protecting Your Health After a Wildfire: Cleaning Settled Dust." Handout. November 10, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/11/Educational-Handout_Cleaning-Settled-Dust_2023-1.pdf.

Chemical Insights Research Institute. “3D Printers and Air Quality: Health Effects and Mitigation Strategies for Use of 3D Printers in Higher Education.” Handout. Chemical Insights, an Institute of Underwriters Laboratories Inc., August 13, 2022. https://chemicalinsights.ul.org/wp-content/uploads/3DPrintersandAirQualityHigherEd_062022.pdf.

“DIY Box Fan Air Cleaner Safety Tips.” Handout. Chemical Insights, an Institute of Underwriters Laboratories Inc., September 9, 2021. https://chemicalinsights.ul.org/wp-content/uploads/Box_Fan_Handout_090921.pdf.

“Keeping Schools Healthy: Strategies for Good Air Quality.” Handout. Chemical Insights, an Institute of Underwriters Laboratories Inc., July 14, 2021. https://chemicalinsights.ul.org/wp-content/uploads/IAQ_Strategies_Final.pdf.

“Keeping Schools Healthy: Ventilation & Filtration Fundamentals.” Handout. Chemical Insights, an Institute of Underwriters Laboratories Inc., July 14, 2021. https://chemicalinsights.ul.org/wp-content/uploads/Ventilation_Strategies_Final.pdf.

“How to Use 3D Printers Safely in Schools.” Poster. Chemical Insights, an Institute of Underwriters Laboratories Inc., June 12, 2021. <https://chemicalinsights.ul.org/wp-content/uploads/3DP-School-Poster.pdf>.

Chemical Insights Research Institute. “3D Printer Safety: 10 Ways to Promote Healthy Indoor Air Quality While Using a 3D Printer.” Poster. May 6, 2021. https://chemicalinsights.ul.org/wp-content/uploads/3DP_Top_Ten_Handout.pdf.

Chemical Insights Research Institute. “Resources for Using 3D Printers Safely in Schools.” Handout., 2021.

Chemical Insights Research Institute. “3D Printer: Innovate. Create. Be Safe.” Sticker. 2021.

Chemical Insights Research Institute. “3D Printer Mitigation Checklist.” Handout. December 1, 2020. https://chemicalinsights.ul.org/wp-content/uploads/2020/07/Toolkit_Checklist_generic.pdf.

LANDING PAGES

UL Research Institutes’ Chemical Insights. “E-Cigarettes and Vaping.” Landing page. August 21, 2025. <https://chemicalinsights.org/e-cigarettes-and-vaping/>.

Chemical Insights Research Institute of UL Research Institutes. “Wildfires and the Wildland Urban Interface.” Landing Page. 2024. <https://chemicalinsights.ul.org/wildfires/#/>.

Chemical Insights, an Institute of Underwriters Laboratories Inc. “3D Printers: Innovate. Create. Be Safe.” Landing Page. 2021.

Chemical Insights, an Institute of Underwriters Laboratories Inc. “Furniture Flammability and Human Health.” Landing Page. 2021.

E-LEARNING MODULES

Chemical Insights Research Institute. “PFAS and the Built Environment.” E-Learning Module. 2024. <https://chemicalinsights.ul.org/courses/pfas-and-the-built-environment/>.

Chemical Insights Research Institute in partnership with the National Association of School Nurses (NASN). “What School Nurses Should Know About Emerging Air Pollutants and Their Impact on Student Health.” E-Learning Module. 2024. <https://nftyce.com/course/pollutants>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc. “Wildfires in the Wildland Urban Interface: Exploring Resilience in WUI Communities.” E-Learning Module. 2023.

Chemical Insights Research Institute (ASID Knowledge Contributor), in partnership with the American Society of Interior Designers (ASID). “Specifying Residential Upholstered Furniture to Safeguard Human Health.” E-Learning Module. 2022. <https://learn.asid.org/products/specifying-residential-upholstered-furniture-to-safeguard-human-health>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc., in partnership with the Environmental Protection Agency (EPA) Asthma Community Network (ACN). “Keeping School Buildings Healthy: Challenges and Opportunities.” E-Learning Module. 2021. <https://chemicalinsights.ul.org/courses/keeping-school-buildings-healthy-making-the-case-for-healthy-clean-environments/>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc., in partnership with the International Facility Management Association (IFMA). “Keeping Your Buildings Healthy: Managing 3D Printer Emissions.” E-Learning Module. 2021. <https://chemicalinsights.ul.org/courses/keeping-your-buildings-healthy-managing-3d-printer-emissions-for-occupant-safety-and-health/>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc. “The Impact of 3D Printers on Indoor Air Quality and Human Health.” E-Learning Module. 2020. <https://chemicalinsights.ul.org/courses/test-your-knowledge-3d-printers-and-indoor-air-quality/>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc. “COVID-19: Maintaining Healthy Indoor Air Quality.” E-Learning Module. 2020. <https://chemicalinsights.ul.org/courses/maintaining-healthy-indoor-air-quality-during-covid-19-what-you-need-to-know/>.

Chemical Insights, an Institute of Underwriters Laboratories, Inc., in partnership with the American Industrial Hygiene Association (AIHA), “Emissions, Exposure, and Health Impact of 3D Printing Processes Professional Development Course.” E-Learning Module. 2020. <https://learning.aiha.org/courses/32572>.

Cantilever Instruction + Design. “The Story of Chemical Insights, an Institute of Underwriters Laboratories Inc.” E-Learning Module. n.d. https://cantilever-instruction.com/chemicalinsights/story_html5.html.

E-LEARNING VIDEOS

Chemical Insights Research Institute. “How Certification Programs Address PFAS.” Video. December 4, 2024. <https://youtu.be/ULO2hk01rJU?si=Ma4YHZppW-6D0MtE>.

Chemical Insights Research Institute. “Preliminary Research Results: PFAS in Textiles.” Video. December 4, 2024. https://youtu.be/JI_TUzG610?si=w0Fu0eqKDY2t1dIA.

Chemical Insights Research Institute. “CIRI’s Research Initiative: PFAS in Textiles.” Video. December 4, 2024. <https://youtu.be/R8SOg4sXnhM?si=maMcDoJay57ppZ72>.

Chemical Insights Research Institute. “Reducing PFAS Through Material Selection.” Video. December 4, 2024. <https://youtu.be/LgsKiK7dOKM?si=7gBY66awlnMSy3wj>.

Chemical Insights Research Institute. “PFAS in the Built Environment.” Video. December 4, 2024. https://youtu.be/Q1Ap15_x8AE?si=o2lfTvtapuZlwz.

Chemical Insights Research Institute. “Health Risks of PFAS.” Video. December 4, 2024. <https://youtu.be/o3vzROuzZI8?si=LLGe0fS-FT1XFHmA>.

Chemical Insights Research Institute. “Human Exposure to PFAS.” Video. December 4, 2024. <https://youtu.be/F0cJP8R4K4g>.

Chemical Insights Research Institute. “PFAS History and Regulations.” Video. December 4, 2024. <https://youtu.be/K49eISvrwbk>.

Chemical Insights Research Institute. “PFAS 101.” Video. December 4, 2024. <https://youtu.be/kcEIUVbvGJQ>.

Chemical Insights Research Institute. “Case Study: Surviving the Marshall Fire and Its Aftermath.” Video. October 15, 2024. https://youtu.be/htqOyeK99as?si=Itd6CjHkk_Np_mUU.

Chemical Insights Research Institute. "Resilience for Health: Exploring the Impacts of Extreme Heat and Human Health." Video. September 11, 2024. <https://www.youtube.com/watch?v=6-7AtDGctKk>.

Chemical Insights Research Institute. "Understanding Wildfires in the Wildland Urban Interface, the Built Environment, and Public Health." Video. June 14, 2024. <https://www.youtube.com/watch?v=ZAU7MNLv1w0>.

Chemical Insights Research Institute. "Chemical Insights Grand Opening of Three New Research Laboratories." Video. April 23, 2024. <https://www.youtube.com/watch?v=3lZ4Bbdw9EY>.

Cantilever Instruction + Design. "The Wildland Urban Interface." Video. November 20, 2023. <https://chemicalinsights.ul.org/resources/wildfires-in-the-wildland-urban-interface/>.

Cantilever Instruction + Design. "Fuel in the WUI." Video. November 20, 2023. <https://chemicalinsights.ul.org/resources/what-fuels-wildfires/>.

Cantilever Instruction + Design. "Emissions in the Wildland Urban Interface. Video." November 20, 2023. <https://chemicalinsights.ul.org/resources/emissions-from-wildfire-smoke/>.

Cantilever Instruction + Design. "NeoCon 2023: Building Resiliency for Health." Video. September 19, 2023. <https://chemicalinsights.ul.org/resources/neocon-building-resiliency-for-health/>.

Cantilever Instruction + Design. "How to Make and Use a DIY Air Cleaner." Video. August 21, 2023. <https://chemicalinsights.ul.org/resources/how-to-make-and-use-a-diy-air-cleaner/>.

SOT TV "Wildfires and Human Health." March 23, 2023. <https://youtu.be/nLkNqSwuDCU>.

SOT TV "The Emerging Threat of Wildfires to Public Health." Video. March 23, 2023. <https://youtu.be/9S7jionY1hE>.

SOT TV "The Impact of Wildfires on Human Health." Video. March 23, 2023. <https://youtu.be/E-zQ8Xgbepg>.

SOT TV "How to Mitigate the Threat of Wildfires to Human Health." Video. March 23, 2023. <https://youtu.be/Wbcx6N0Sx5I>.

Cantilever Instruction + Design. "PFAS Research." Video. March 16, 2023. <https://www.youtube.com/watch?v=aAWzVtLTbZc>.

Cantilever Instruction + Design. "What Are PFAS?" Video. March 16, 2023. https://youtu.be/TYI_GGZgXfl?si=5GOFtoRNOjk_XwRh.

Cantilever Instruction + Design. "Greenbuild 2022: Debra Harris, PhD, on Natural vs. Synthetic Materials During a Fire." Video. December 15, 2022. https://www.youtube.com/watch?v=4ipB_2nRbtE.

Cantilever Instruction + Design. "Greenbuild 2022: Birgitte Messerschmidt, M.Sc., on Homes as Wildfire Fuel." Video. December 8, 2022. <https://www.youtube.com/watch?v=8wkVww2CUfE>.

Cantilever Instruction + Design. "Greenbuild 2022: Annette Stelmack on the Marshall Fire." Video. December 1, 2022. <https://www.youtube.com/watch?v=rFP8FUQhXv4>.

Cantilever Instruction + Design. "Chemistry 101 for Building Managers." Video. October 19, 2022. <https://www.youtube.com/watch?v=7wuKZGnMM1o>.

Cantilever Instruction + Design. "NeoCon 2022: Design It Healthy, Keep It Healthy." Video. June 13, 2022. <https://youtu.be/KMkWe-0Rwo0?si=8U1A0FWTUWNwcmIW>.

Society of Toxicology. "Research for a Safer and Healthier Tomorrow (Three Minute)." Video. April 5, 2022. <https://www.youtube.com/watch?v=oy-rbNUCo0Y>.

Society of Toxicology. "Research for a Safer and Healthier Tomorrow (One Minute)." Video. April 5, 2022. <https://www.youtube.com/watch?v=aOsSQNX9iYg>.

Society of Toxicology. "Research for a Safer and Healthier Tomorrow (Full)." Video. April 5, 2022.
<https://www.youtube.com/watch?v=vYQnWIUV23o>.

Cantilever Instruction + Design. "A Decision Tree: Considering Upholstered Furniture Fabrication Strategies for Slowing Ignition." Video. March 29, 2022. <https://www.youtube.com/watch?v=zYI8Uqob15M>.

Cantilever Instruction + Design. "Fire Barrier Performance Specifications." Video. March 29, 2022.
<https://www.youtube.com/watch?v=GlpGAgpDHyo>.

Cantilever Instruction + Design. "Fire Trends in the U.S." Video. March 29, 2022.
<https://www.youtube.com/watch?v=IMCebNlv6r0>.

Cantilever Instruction + Design. "Human Health Impacts of Flame-Retardant Exposure." Video. March 29, 2022.
<https://www.youtube.com/watch?v=vmQ5GM9-cuA>.

Cantilever Instruction + Design. "Issuing Flammability Standards." Video. March 29, 2022.
<https://www.youtube.com/watch?v=L21OxVOF0bw>.

Cantilever Instruction + Design. "Next Steps for Designers." Video. March 29, 2022.
<https://www.youtube.com/watch?v=amlzZPYcz7s>.

Cantilever Instruction + Design. "Overview: Furniture Flammability and Human Health." Video. March 29, 2022.
<https://www.youtube.com/watch?v=LytIV4GX8X8>.

Cantilever Instruction + Design. "The History of Flammability Standards in the U.S." Video. March 29, 2022.
<https://www.youtube.com/watch?v=LHZlosmLgkY>.

Cantilever Instruction + Design. "When to Use a Fire Barrier." Video. March 29, 2022.
https://www.youtube.com/watch?v=bGhOk_UY9BQ.

Cantilever Instruction + Design. "Learn More About Our Research on Electronic Nicotine Delivery Systems (ENDS)." Video. October 26, 2021. <https://www.youtube.com/watch?v=g5DknVUWqB0>.

Cantilever Instruction + Design. "Installing a Fire Barrier." Video. April 28, 2021.
https://www.youtube.com/watch?app=desktop&v=LenSF9fvmXs&list=PLVxn85_ikhGQuvYeYFeJir7yd3wGs.

Cantilever Instruction + Design. "A History of Chemical Insights Furniture Flammability and Human Health Initiative." Video. April 28, 2021.
https://www.youtube.com/watch?v=e5Aoi07ch3g&list=PLVxn85_ikhGQuvYeYFeJir7yd3wGs_FtT&index=2.

Cantilever Instruction + Design. "Behind the Scenes: Robiesitz." Video. January 23, 2021.
<https://www.youtube.com/watch?app=desktop&v=8RhSTny8NgY>.

Arketi. "Clearing the Air on COVID-19." 2020.

Cantilever Instruction + Design. "Disinfecting and Cleaning." Video. December 18, 2020.
<https://www.youtube.com/watch?app=desktop&v=FKpiBZSxzP0>.

Cantilever Instruction + Design. "Precautionary Measures." Video. December 8, 2020.
<https://www.youtube.com/watch?v=w8zWRdBV4hs>.

Cantilever Instruction + Design. "Understanding Aerosol Transmission." Video. December 8, 2020.
<https://www.youtube.com/watch?v=uiwOgQccqoc>.

Cantilever Instruction + Design. "Ventilation." Video. December 8, 2020. <https://www.youtube.com/watch?v=jM-jjBzK-II>.

Cantilever Instruction + Design. "Why Is Indoor Air Quality Important?" Video. December 8, 2020.
<https://www.youtube.com/watch?v=U0REPEvxFDI>.

Cantilever Instruction + Design. "3D Printer Basics." Video. December 2, 2020.
<https://www.youtube.com/watch?v=ALpZmlZ2Tz4>.

Cantilever Instruction + Design. "3D Printer Mitigation Strategies Location." Video. December 2, 2020.
<https://www.youtube.com/watch?v=6-nDbgGXwx4>.

Cantilever Instruction + Design. "3D Printer Mitigation Strategies Operation." Video. December 2, 2020.
<https://www.youtube.com/watch?v=0Z-BIQYrA2k>.

Cantilever Instruction + Design. "3D Printer Mitigation Strategies Purchasing." Video. December 2, 2020.
<https://www.youtube.com/watch?v=qxE720CTda8>.

Cantilever Instruction + Design. "3D Printer Research Findings." Video. December 2, 2020.
<https://www.youtube.com/watch?v=LLpgu5Fuc6Y>.

Cantilever Instruction + Design. "3D Printer Research Overview." Video. December 2, 2020.
https://www.youtube.com/watch?v=_XDiaaKQotvc.

Cantilever Instruction + Design. "3D Printer Standard." Video. December 2, 2020.
<https://www.youtube.com/watch?v=zesDPRqLei8>.

Cantilever Instruction + Design. "Behind the Scenes: Chemical Insights' 3D Printer Research." Video. December 2, 2020.
<https://www.youtube.com/watch?v=va8CZAUtMu8>.

Cantilever Instruction + Design. "About Chemical Insights." Video. November 18, 2020.
https://www.youtube.com/watch?v=6zh3_gOexFw&list=PLVxn85_ikhGTesoULGnmggscNdnNlvSd&index=1.

Cantilever Instruction + Design. "About Chemical Insights: A Collaborative Research Approach." Video. November 18, 2020.
https://www.youtube.com/watch?v=6z_9n5TMktg&list=PLVxn85_ikhGTesoULGnmggscNdnNlvSd&index=4.

Cantilever Instruction + Design. "About Chemical Insights: A Focus on Human Exposure." Video. November 18, 2020.
https://www.youtube.com/watch?v=nNm5-78gv_8&list=PLVxn85_ikhGTesoULGnmggscNdnNlvSd&index=3.

Cantilever Instruction + Design. "About Chemical Insights' Mission." Video. November 18, 2020.
https://www.youtube.com/watch?v=Z08zPjSM7Bw&list=PLVxn85_ikhGTesoULGnmggscNdnNlvSd&index=2.

Cantilever Instruction + Design. "About Chemical Insights' Process." Video. November 18, 2020.
https://www.youtube.com/watch?v=uXSluiA4KZ4&list=PLVxn85_ikhGTesoULGnmggscNdnNlvSd&index=5.

SOT TV. Chemical Insights. "An Institute of Underwriters Laboratories Inc." Video. April 13, 2020.
<https://www.youtube.com/watch?app=desktop&v=vfOTFxY63xM>.

Cantilever Instruction + Design. "Chemical Insights' Chair Burns." Video. March 19, 2020.
<https://www.youtube.com/watch?v=Tz9AcajFjUs>.

SOCIAL MEDIA ASSETS

UL Research Institutes' Chemical Insights. "Behind the Scenes: It Takes a Village to Share Our #SafetyScience with You." Video. November 19, 2025. <https://www.youtube.com/shorts/Vnzdu0EvTKc>.

UL Research Institutes' Chemical Insights. "Wildfire Myths." Slideshow. November 4, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_wildfire-myths-activity-7391862453422338049-mwOH/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwrt1f13JuA761xgw.

UL Research Institutes' Chemical Insights. "Citizen Scientist VOC Testing Instructions." Video. October 30, 2025. <https://www.youtube.com/watch?v=uxs6DqTcups>.

- UL Research Institutes' Chemical Insights. "3 Things to Know About 3D Printers." Slideshow. October 20, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_3-things-to-know-about-3d-printers-activity-7386054222435258368-N2GK.
- UL Research Institutes' Chemical Insights. "Thermal Runaway and Li-Ion Batteries." Slideshow. October 8, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_thermal-runaway-study-activity-7380980249699868672-82i0.
- UL Research Institutes' Chemical Insights. "After a Fire, Hazardous Particulates May Be Left behind in Your Home. Here's How We Test for Them." Video. October 1, 2025. https://www.youtube.com/shorts/nMO3wJU_3II.
- UL Research Institutes' Chemical Insights. "Testing Air Filters after a #wildfire." Video. September 25, 2025. <https://www.youtube.com/shorts/HnikBzB34N0>.
- UL Research Institutes' Chemical Insights. "Scientist Origin Story: Shaligram Sharma, Ph.D." September 18, 2025. <https://www.youtube.com/shorts/VjEi8ruzW48>.
- UL Research Institutes' Chemical Insights. "Graphic Novel: Risks of Vaping." Video. September 5, 2025. <https://www.youtube.com/shorts/vS6PhWngkw4>.
- UL Research Institutes' Chemical Insights. "If You Can't Say It, Should You Really Be #vaping It?" Video. August 14, 2025. <https://www.youtube.com/shorts/3I74OSZFui8>.
- UL Research Institutes' Chemical Insights. "7 Misconceptions about #vaping and Public Health." Video. August 11, 2025. <https://www.youtube.com/watch?v=l4BusZrpyvY>.
- UL Research Institutes' Chemical Insights. "SERVICE Is in Our DNA as Research Scientists." August 5, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_whats-in-your-vape-activity-7356329674462961666-H7pi/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwrt1f13JuA761xgw.
- UL Research Institutes' Chemical Insights. "What's in Your #vape?" Video. July 30, 2025. <https://www.youtube.com/shorts/Vyh-DQeZRzU>.
- UL Research Institutes' Chemical Insights. "Our Scientists Are at Your SERVICE When It Comes to Vaping and Public Health." July 19, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_vaping-misconceptionspdf-activity-7348400384408756224--6Mf/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwrt1f13JuA761xgw.
- UL Research Institutes' Chemical Insights. "Superfund Site Study in Brooklyn." July 19, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_superfund-site-study-brooklyn-activity-7346536850347507712-PVzV/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwrt1f13JuA761xgw.
- UL Research Institutes' Chemical Insights. "You May Change How You Feel about Your Daily Puff after Learning about 7 #vaping Misconceptions." Video. July 7, 2025. <https://www.youtube.com/shorts/p-YVqHuhBvw>.
- UL Research Institutes' Chemical Insights. "This Is UL Research Institutes' Chemical Insights. Go inside Our Labs to Learn More about Us." Video. July 1, 2025. <https://www.youtube.com/watch?v=ULEzaBHQcSI>.
- UL Research Institutes' Chemical Insights. "Did You Know Extreme #heat and Its Impact in Lower Income Neighborhoods Is Less Tracked?" Video. June 25, 2025. https://www.youtube.com/shorts/zEoOhIW7j_s.
- UL Research Institutes' Chemical Insights. "In Fires, Gas Cars Leave Chemicals Behind. Less Testing Has Been Done on #electricvehicles." Video. June 20, 2025. https://www.youtube.com/shorts/aqJKkG0_f2w.
- Chemical Insights Research Institute. "A Third of the U.S. Population Lives in a WUI Fire Zone. What Is It? #wildfires #californiafire - YouTube." Video. June 12, 2025. <https://www.youtube.com/shorts/r-1R2SFUHHY>.

Wilson, Mark, Laurie Gilmer, and Holley Henderson. "Beyond the Flames: Protecting Buildings & Occupants from Wildfire & WUI Risks." Presented at the IFMA ISC WE Sponsored Webinar. Video. June 3, 2025. [Beyond the Flames: Protecting Health from Wildfire & WUI Risks](#).

Chemical Insights Research Institute "Did You Know a Typical Home Can Add 50 Tons of Fuel to a Wildfire & Hundreds of Chemicals?" Video. May 28, 2025. https://www.youtube.com/shorts/w2_RMWP_lvc.

Chemical Insights Research Institute. "Thermal Runaway and Lithium-Ion Batteries." Slideshow. May 23, 2025. <https://www.linkedin.com/feed/update/urn:li:activity:7331684725973057537/>.

Chemical Insights Research Institute. "Lahaina, Hawaii Fire Report." Slideshow. May 21, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_lahaina-hawaii-wildfire-and-chemical-contaminants-activity-7330646396636717058-LJu-/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwtrp1f13JuA761xgw.

CSHEMA. "Beyond the Flames: Protecting Health from Wildfire & WUI Risks." Video. May 12, 2025. <https://vimeo.com/1083661954/eb16ab9957>.

Chemical Insights Research Institute. "New Research: Vaping and Oral Health in African Americans." Slideshow. May 6, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_vaping-and-oral-health-activity-7324398408830509056-vDu0/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwtrp1f13JuA761xgw.

Chemical Insights Research Institute. "ENDS Health Risks to Users and Bystanders." Slideshow. May 1, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_ends-health-risks-users-and-bystanders-activity-7323371577666949121-lhPW/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwtrp1f13JuA761xgw

Chemical Insights Research Institute. "Chemical Insights is studying the use of #3dprinting in dental schools." Video. April 15, 2025. Available: <https://www.youtube.com/shorts/nFiZu0L0aCw>.

Chemical Insights Research Institute. "One of our scientists tells us why she chose research science as a career." Video. April 11, 2025. Available: <https://www.youtube.com/shorts/sxRyVaf5zgc>.

Chemical Insights Research Institute. "Americans spend 90% of their time indoors. Indoor #airquality has never been more important." Video. April 08, 2025. <https://www.youtube.com/shorts/44E75gkyiig>.

Chemical Insights Research Institute. "Superhero Scientist origin story: Dr. Joe Hess." Video. April 03, 2025. <https://www.youtube.com/shorts/tKg0ZTtPMNY>.

Chemical Insights Research Institute. "Who Wants to Be a Scientist?" Video. March 25, 2025. <https://www.youtube.com/watch?v=JEam5rEYz70>.

Chemical Insights Research Institute. "Lab Scale Study to Model WUI Events." Slideshow. March 13, 2025. https://www.linkedin.com/posts/chemical-insights-research-institute_lab-scale-study-to-model-wildfire-combustion-activity-7305579838898130952-aYpv/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwtrp1f13JuA761xgw

Chemical Insights Research Institute. "DYK What's in a Cell? This Machine Analyzes up to 80 Different Genes & Proteins in 1 Sample!" Video. March 13, 2025. <https://www.youtube.com/shorts/JwhDLtBRJC0>.

Chemical Insights Research Institute. "PFAS & Human Health." Video. February 25, 2025. https://www.youtube.com/mcas.ms/shorts/dlLrVTw_Sbc.

Chemical Insights Research Institute. "WUI Fires Can Contaminate the Air We Breathe." Slideshow. February 2025.
https://www.linkedin.com/posts/chemical-insights-research-institute_wui-fires-can-contaminate-the-air-we-breathe-activity-7295496847639433216-tll1/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAugvmQBNisZS11RJwrtpl1f13JuA761xgw.

Chemical Insights Research Institute. "Measuring Cell Toxicity in Vaping, 3D Printers with Exposure Chambers." Video. February 8, 2025. <https://www.youtube.com/mcas.ms/shorts/CIYM5OMEZI>

Chemical Insights Research Institute. "What Is an Aldehyde in Chemistry?" Video. February 7, 2025.
<https://www.youtube.com/watch?v=71qpYyTpHB4>.

Chemical Insights Research Institute. "A Beginner's Guide to Forever Chemicals, or PFAS, and Your Health." Video. February 4, 2025. <https://www.youtube.com/mcas.ms/shorts/EQY6IK6YmH8>.

Chemical Insights Research Institute. "Chemistry Minute Behind the Scenes: Inside the Lab." Video. January 30, 2025.
<https://www.youtube.com/mcas.ms/shorts/XAE7OsVxRuc>.

Chemical Insights Research Institute. "CBD Products: Natural vs. Synthetic." Video. January 24, 2025. https://www.youtube.com/watch?v=W3uY_9b24JE.

Chemical Insights Research Institute. "The Best Way to Clean Your Home after a Wildfire." Video. January 15, 2025.
<https://www.youtube.com/watch?v=H-vxzW9xHRM>.

INTERNAL REPORTS (FOR RESEARCH PURPOSES ONLY)

Chemical Insights Research Institute. *Effects of Filtration on Particle and Chemical Emissions from Method XL Printer*. Internal Report 460. March 28, 2025.

Chemical Insights Research Institute. *Research Results for Metal Analysis of Particles and Filaments for Markforged, Inc.* Internal Report 310. July 2023.

Chemical Insights Research Institute. *Particle and Chemical Emissions from MakerBot Method X 3D Printer with Clean Air™ Filter System*. Internal Report 220. September 2021.

Chemical Insights Research Institute. *Effects of Filtration on Particle and Chemical Emissions from MakerBot Method X Printer: An Update of Filtration Design*. Internal Report 190. July 2021.

Chemical Insights Research Institute. *Effects of a Filter Setup on Particle and Chemical Emissions from MakerBot Method X Printer*. Internal Report 160. January 2021.

Chemical Insights Research Institute. *Report for Particle and Chemical Emissions from Markforged 3D Printers (Test Product Description: Markforged X7 and Metal X)*. Internal Report 090. August 2020.

Chemical Insights Research Institute. *Report for Particle and Chemical Emissions from MakerBot 3D Printer (Test Product Description: MakerBot Method X)*. Internal Report 150. July 2020.

Chemical Insights Research Institute. *Research Emission Results for Markforged, Inc. (Test Product Description: Markforged Metal X)*. Internal Report 120. June 2020.

Chemical Insights Research Institute. *Report for Particle and Chemical Emissions from MakerBot 3D Printer (Test Product Description: MakerBot Method)*. Internal Report 110. June 2020.

Chemical Insights Research Institute. *Research Emission Results for MakerBot Industries LLC (Test Product Description: MakerBot Method and Method X)*. Internal Report 100. April 2020.

Chemical Insights Research Institute. *Data Comparison on Conducting ANSI/CAN/UL 2904 for UL Environment and Sustainability (Test Product Description: Markforged X7)*. Internal Report 080. February 2020.

Chemical Insights Research Institute. *Research Emission Results for Markforged, Inc. (Test Product Description: Markforged X7 and Metal X)*. Internal Report 070. January 2020.

E-NEWSLETTERS

UL Research Institutes' Chemical Insights. "A Year of Impact in Health and Safety Research." Spotlight Newsletter. December 19, 2025.

UL Research Institutes' Chemical Insights. "Research Insights Powering Public Health Protection." Spotlight Newsletter. November 25, 2025.

<https://go.ul.org/webmail/1007222/4141731884/9f5137304891e1786ef5f2306a5e9db49da23bcd444a795804a400f5679b78aa>.

UL Research Institutes' Chemical Insights. "Science That Protects, Insights That Empower." Spotlight Newsletter. October 31, 2025.

<https://go.ul.org/webmail/1007222/4132463651/f7db9c4e303f2a969fb9f29bb0276e314eb4a560b39576668899540eb967dee8>.

UL Research Institutes' Chemical Insights. "Expanding Our Impact Through Community Engagement and Outreach." Spotlight Newsletter. September 30, 2025.

<https://go.ul.org/webmail/1007222/4120099303/b452a501e6ea785a138b8b7205cc2af2c56673a4c5b7c3cc40224cb1864e3ac4?>

UL Research Institutes' Chemical Insights. "Small Particles with Big Impacts." Spotlight Newsletter. September 3, 2025.

<https://go.ul.org/webmail/1007222/4108707005/4072cbae7c1131b9b129a88af40fa09df93eac16fd74b8e2ed866ca67d530fc5>.

UL Research Institutes' Chemical Insights. "New Guidance Addresses Misconceptions on the Safety of Vaping and Strategies for Harm Reduction." Spotlight Newsletter. July 31, 2025.

<https://go.ul.org/webmail/1007222/4100047484/4072cbae7c1131b9b129a88af40fa09df93eac16fd74b8e2ed866ca67d530fc5?>

Chemical Insights Research Institute. "New Publications Explore Comprehensive Analysis of ENDS." Spotlight Newsletter. June 26, 2025.

go.ul.org/webmail/1007222/4084698422/72a84f268e8845644f7a5f7413caea7d9f38e9e162f47507b8e4c7e5dab1f411

Chemical Insights Research Institute. "Chemical Insights Releases Latest Research Discoveries on Wildfires in the WUI." Foresight Newsletter. May 30, 2025. <https://mailchi.mp/chemicalinsights/foresight-may-2025>

Chemical Insights Research Institute. "Foresight: Investigating the Chemical Emissions of Li-Ion Battery Thermal Runaway." Foresight Newsletter. April 25, 2025. <https://mailchi.mp/chemicalinsights/foresight-april-30-25>.

Chemical Insights Research Institute. "Foresight: PFAS Exposure Risks in Firefighter Turnout Gear" Foresight Newsletter. March 28, 2025. <https://mailchi.mp/chemicalinsights/foresight-march-2025>.

Chemical Insights Research Institute. "Foresight: CIRI's 2025 Research Agenda Focuses on Environmental and Consumer Exposure Public Health Challenges." Foresight Newsletter. February 28, 2025. <https://mailchi.mp/chemicalinsights/foresight-january-31-25>.

Chemical Insights Research Institute. "Foresight: Highlights and Key Insights from ULRI's Annual Research Symposium." Foresight Newsletter. January 31, 2025. <https://mailchi.mp/chemicalinsights/foresight-february-2025>.

Chemical Insights Research Institute. "Foresight: CIRI's Latest Research on WUI Wildfire Residues." Foresight Newsletter. January 3, 2025. <https://mailchi.mp/chemicalinsights/foresight-december-24>.

Chemical Insights Research Institute. "Foresight: New Research on Emerging Environmental Pollution Sources." Foresight Newsletter. November 22, 2024. <https://mailchi.mp/chemicalinsights/foresight-november-2024>.

Chemical Insights Research Institute. "Foresight: CIRI's New Resources for Protecting Community Health Before, During, and After a Wildfire Disaster." Foresight Newsletter. October 31, 2024. <https://mailchi.mp/chemicalinsights/foresight-october-24>.

Chemical Insights Research Institute. "Foresight: Science Translation Hub: Research to Impact." Foresight Newsletter. September 30, 2024. <https://mailchi.mp/chemicalinsights/foresight-september2024>.

Chemical Insights Research Institute. "Foresight: The Impact of Emerging Technologies on Indoor Air." Foresight Newsletter. August 29, 2024. <https://mailchi.mp/chemicalinsights/foresight-august-14187701>.

Chemical Insights Research Institute. "Foresight: Volatile Organic Compounds: What They Are and Why They Matter." Foresight Newsletter. July 31, 2024. <https://mailchi.mp/chemicalinsights/foresight-july-2024>.

Chemical Insights Research Institute. "Foresight: Extreme Heat and Disasters." Foresight Newsletter. June 30, 2024.

Chemical Insights Research Institute. "Foresight: Wildfires in the WUI: A Growing Public Health Challenge." Foresight Newsletter. May 31, 2024. <https://mailchi.mp/chemicalinsights/foresight-may2024>.

Chemical Insights Research Institute. "Foresight: Extreme Weather and Resiliency for Health: Emerging Insights for a Changing World." Foresight Newsletter. April 30, 2024. https://mailchi.mp/chemicalinsights/foresight_april2024_1-14183184.

Chemical Insights Research Institute. "Foresight: Unraveling the Mystery of PFAS: Understanding These Hidden Hazards." Foresight Newsletter. March 28, 2024. https://mailchi.mp/chemicalinsights/foresight_march2024.

Chemical Insights Research Institute. "Foresight: CIRI's Research Agenda Highlights Resiliency for Health as Emerging Chemicals and Extreme Weather Present Challenges." Foresight Newsletter. February 29, 2024. https://mailchi.mp/chemicalinsights/foresight_february2024?e=a4bd02d209.

Chemical Insights Research Institute. "Foresight: New CIRI Laboratories Usher in Opportunities for Scientific Innovation, Discovery, Collaboration, and Human Health Protection." Foresight Newsletter. January 31, 2024. https://mailchi.mp/chemicalinsights/foresight_january2024-14095681.

Chemical Insights Research Institute. "Foresight: Warm Holiday Wishes and a 2023 Recap from Chemical Insights Research Institute (CIRI) of UL Research Institutes." Foresight Newsletter. December 20, 2023. https://mailchi.mp/chemicalinsights/foresight_december2023.

Chemical Insights Research Institute. "Foresight: Expanding the Definition of Resiliency: Promoting Health in the Built Environment." Foresight Newsletter. November 30, 2023. https://mailchi.mp/chemicalinsights/foresight_november2023.

Chemical Insights Research Institute. "Foresight: Looking Through the Smoke: Learn About CIRI's Health-Related Wildfire Research." Foresight Newsletter. October 30, 2023. https://mailchi.mp/chemicalinsights/foresight_october2023.

Chemical Insights Research Institute. "Foresight: CIRI Provides Key Insights on Sources of VOCs in Indoor Environments and Steps to Reduce Exposure." Foresight Newsletter. September 29, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/09/CIRI-Provides-Research-and-Strategies-to-Protect-Indoor-Air-Quality.pdf>.

Chemical Insights Research Institute. "Foresight: CIRI's E-Learning Courses Provide Insights on Current Issues Affecting Your Health and Safety and How You Can Reduce Risks." Foresight Newsletter. August 31, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/08/Upskill-Your-Career-with-CIRIs-E-Learning-Courses.pdf>.

Chemical Insights Research Institute. "Foresight: New School Year, Be Concerned About the Health Risks of Vaping." Foresight Newsletter. July 28, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/08/CIRIForesightJuly.pdf>.

Chemical Insights Research Institute. "Foresight: The Changing Climate and Its Impact on Human Health." Foresight Newsletter. June 30, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/06/Researching-climate-change-and-what-it-means-for-human-health.pdf>.

Chemical Insights Research Institute. "Foresight: CIRI Releases New Research Data and an Actionable Guidance Document on 3D Printing." Foresight Newsletter. May 31, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/05/New-Guidance-and-Insights-on-Reducing-Exposure-to-3D-Printing-Emissions.pdf>.

Chemical Insights Research Institute. "Foresight: CIRI Introduces Its Extensive Resource Library." Foresight Newsletter. April 30, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/04/CIRI-Introduces-Its-Extensive-Resource-Library.pdf>.

Chemical Insights Research Institute. "Foresight: Sharing CIRI's 2023 Research Agenda." Foresight Newsletter. March 31, 2023. <https://mailchi.mp/chemicalinsights/march2023issue?e=50b4b3850e>.

Chemical Insights Research Institute. "Foresight: Sharing CIRI's 2023 Research Agenda." Foresight Newsletter. February 28, 2023. <https://mailchi.mp/chemicalinsights/february2023issue>.

Chemical Insights Research Institute. "Foresight: Wishing You a Happy and Healthy Holiday Season." Foresight Newsletter. December 21, 2022. <https://mailchi.mp/chemicalinsights/dec2022issue-13824678>.

Chemical Insights Research Institute. "Foresight: Convening Experts to Share Scientific Insights." Foresight Newsletter. November 30, 2022. <https://mailchi.mp/chemicalinsights/nov2022issue>.

Chemical Insights Research Institute. "Foresight: Research-Backed Insights for Professionals." Foresight Newsletter. October 31, 2022. <https://mailchi.mp/chemicalinsights/october2022issue-13703010>.

Chemical Insights Research Institute. "Foresight: Advancing Chemical Insights Research Institute's (CIRI's) Research into Unraveling the Human Health Impact of 3D Printing Emissions." Foresight Newsletter. September 29, 2022. <https://mailchi.mp/chemicalinsights/september2022issue-13699818?e=50b4b3850e>.

Chemical Insights Research Institute. "Foresight: Actionable Scientific Information for Professionals." Foresight Newsletter. August 31, 2022. <https://mailchi.mp/chemicalinsights/august2022issue-13695494>.

Chemical Insights Research Institute. "Foresight: Wildfire Resources." Foresight Newsletter. July 28, 2022. <https://mailchi.mp/chemicalinsights/july2022issue-13691385>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Research Institute Publishes New DIY Filtration Application Notes." Foresight Newsletter. June 30, 2022. <https://mailchi.mp/chemicalinsights/june2022issue-13686041>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Research Institute Launches New Research and Webinar to Protect Human Health." Foresight Newsletter. May 31, 2022. <https://mailchi.mp/chemicalinsights/may2022issue-13660986>.

Chemical Insights Research Institute. "Foresight: New Continuing Education Course and Guidance Document." Foresight Newsletter. April 27, 2022. <https://mailchi.mp/chemicalinsights/april2022issue>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Research Institute & Partners Share Timely Resources." Foresight Newsletter. March 29, 2022. <https://mailchi.mp/chemicalinsights/march2022issue-13643702>.

Chemical Insights Research Institute. "Foresight: CIRI Confirms Commitment to Studying Human Health Risks from Chemical Exposure." Foresight Newsletter. February 24, 2022. <https://mailchi.mp/chemicalinsights/feb2022issue>.

Chemical Insights Research Institute. "Foresight: 2022 Highlights." Foresight Newsletter. January 25, 2022. <https://mailchi.mp/chemicalinsights/jan2022issue>.

Chemical Insights Research Institute. "Foresight: 2021 Highlights." Foresight Newsletter. December 22, 2021. <https://mailchi.mp/chemicalinsights/dec2021issue>.

Chemical Insights Research Institute. "Foresight: New Environmental Research Journal Article." Foresight Newsletter. November 30, 2021. <https://mailchi.mp/chemicalinsights/nov2021issue>.

Chemical Insights Research Institute. "Foresight: Toxicology Health Sciences Center Expands." Foresight Newsletter. October 27, 2021. <https://mailchi.mp/chemicalinsights/oct2021issue>.

Chemical Insights Research Institute. "Foresight: Latest Summary Report on E-Cigarettes and Vaping." Foresight Newsletter. September 29, 2021. <https://mailchi.mp/chemicalinsights/sept2021issue>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Releases New Research on DIY Air Cleaners." Foresight Newsletter. August 31, 2021. <https://mailchi.mp/chemicalinsights/new-research-with-partners-on-emerging-topics-announced?e=%5bUNIQID>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Releases New Report on DIY Air Cleaners." Foresight Newsletter. July 31, 2021. <https://us17.campaign-archive.com/?u=576ed13f0a3c1a6cd9efcfc24&id=3d3b9fbd47>.

Chemical Insights Research Institute. "Foresight: Chemical Insights Releases New 3D Printing Educational Tools." Foresight Newsletter. June 30, 2021. <https://us17.campaign-archive.com/?u=576ed13f0a3c1a6cd9efcfc24&id=cd9bb28b7b>.

Chemical Insights Research Institute. "Foresight: Chemical Insights and EPA Conducting Wildfire Research." Foresight Newsletter. May 28, 2021. <https://mailchi.mp/chemicalinsights/wildfire-research-with-epa>.

Chemical Insights Research Institute. "Foresight Special Edition: Furniture Flammability and Human Health." Foresight Newsletter. April 30, 2021. https://mailchi.mp/chemicalinsights/specialedition_ffhh.

Chemical Insights Research Institute. "Foresight: Join Our Virtual Summit." Foresight Newsletter. March 30, 2021. <https://mailchi.mp/chemicalinsights/join-our-virtual-summit>.

Chemical Insights Research Institute. "Foresight: Our Latest Research." Foresight Newsletter. February 23, 2021. <https://mailchi.mp/chemicalinsights/our-latest-research>.

Chemical Insights Research Institute. "Foresight: Find Out What Chemical Insights Is Working On." Foresight Newsletter. January 27, 2021. [https://us17.campaign-archive.com/?u=576ed13f0a3c1a6cd9efcfc24&id=77aceae1b7&e=\[UNIQID\]](https://us17.campaign-archive.com/?u=576ed13f0a3c1a6cd9efcfc24&id=77aceae1b7&e=[UNIQID]).

Chemical Insights Research Institute. "Foresight: Meet Chemical Insights." Foresight Newsletter. December 15, 2020. <https://us17.campaign-archive.com/?u=576ed13f0a3c1a6cd9efcfc24&id=709619df7a>.

PRESS RELEASES AND NEWS ALERTS

UL Research Institutes' Chemical Insights. "UL Research Institutes' Chemical Insights Releases Guidance on Electronic Nicotine Delivery Systems." July 2, 2025. <https://www.prnewswire.com/news-releases/ul-research-institutes-chemical-insights-releases-guidance-on-electronic-nicotine-delivery-systems-302496277.html>.

UL Research Institutes' Chemical Insights. "UL Research Institutes' Chemical Insights Names New Executive Director." June 30, 2025. https://www.prnewswire.com/news-releases/ul-research-institutes-chemical-insights-names-new-executive-director-302493277.html?tc=eml_cleartime.

Chemical Insights Research Institute. "Chemical Insights Shares the Latest Publications on WUI Fire Chemical Exposures." News Alert. June 4, 2025. <https://mailchi.mp/chemicalinsights/news-alert-june-4-25>.

Chemical Insights Research Institute. "Chemical Insights Expands Data Portal with New Datasets." News Alert. May 28, 2025. <https://mailchi.mp/chemicalinsights/news-alert-may-28-25?>

Chemical Insights Research Institute. "Chemical Insights' Webinar Shared Latest WUI Fire Safety Guidance." News Alert. May 21, 2025. <https://mailchi.mp/chemicalinsights/news-alert-may-21-25>

Avery, Susan. "ASID Promotes Sustainable Approaches for Earth Day and Beyond." Press Release. April 27, 2025. <https://officeinsight.com/officenewswire/asid-promotes-sustainable-approaches-for-earth-day-and-beyond/>.

Chemical Insights Research Institute. "Chemical Insights Research Institute Releases New Technical Briefs." News Alert. April 9, 2025. <https://mailchi.mp/chemicalinsights/news-alert-apr-9>.

Chemical Insights Research Institute. "Chemical Insights Research Institute Scientist Wins 'Best Publication Award'." News Alert. March 26, 2025. <https://mailchi.mp/chemicalinsights/news-alert-mar-26-25>

Chemical Insights Research Institute. "Chemical Insights Research Institute Releases New Technical Reports." News Alert. March 11, 2025. <https://mailchi.mp/chemicalinsights/news-alert-mar-11-2025?>

Chemical Insights Research Institute. "New Resources Available to Help Residents Impacted by California Wildfires." News Alert. February 7, 2025. <https://mailchi.mp/chemicalinsights/news-alert-jan-9-2025>.

Chemical Insights Research Institute. "Publication of UL Research Institutes Annual Research Symposium Proceedings." News Alert. January 9, 2025. <https://mailchi.mp/chemicalinsights/news-alert-feb-2025>.

Business Wire. "Chemical Insights Research Institute Launches a New Public Service Website with Key Information on Protecting Public Health During Wildland-Urban Interface (WUI) Fires." News Alert. December 11, 2024. <https://www.businesswire.com/news/home/20241211458750/en/Chemical-Insights-Research-Institute-launches-a-new-public-service-website-with-key-information-on-protecting-public-health-during-wildland-urban-interface-WUI-fires>

Business Wire. "Effects of Extreme Heat Explored in New Design Brief." News Alert. November 27, 2024. <https://www.businesswire.com/news/home/20241127362144/en/Effects-of-Extreme-Heat-Explored-in-New-Design-Brief>.

Business Wire. "Chemical Insights Research Institute Publishes Comprehensive Guidance to Protect Community Health Impacted by Wildland-Urban Interface Fire Events." News Alert. October 23, 2024. <https://www.businesswire.com/news/home/20241023404937/en>.

Business Wire. "Chemical Insights Research Institute announces the UL Research Institutes' Lifetime Achievement Award in Public Health to Dean Jones, Ph.D., for Pioneering Work in Protecting Human Health." News Alert. September 26, 2024. <https://www.businesswire.com/news/home/20240926971582/en>.

Chemical Insights Research Institute. "News Alert: Research Findings in School Classrooms Show that Use of 3D Printers Release Indoor Air Pollution that May Affect Airway Cells and Respiratory Health." News Alert. July 16, 2024. https://mailchi.mp/chemicalinsights/news-alert-july-16_2024.

International Facility Managers Association (IFMA). "IFMA Joins Forces with Chemical Insights Research Institutes to Provide Educational Content for Facilities Professionals." Press Release. July 15, 2024. <https://www.ifma.org/news/whats-new-at-ifma-new/ifma-joins-forces-with-chemical-insights-research-institutes-to-provide-educational-content-for-facilities-professionals/>.

Chemical Insights Research Institute. "News Alert: CIRI Presents Webinar Examining Ways to Understand Wildfires in the Wildland Urban Interface, the Built Environment, and Public Health." News Alert. June 11, 2024. https://mailchi.mp/chemicalinsights/news-alert-june-11_2024.

Chemical Insights Research Institute. "New Alert: Chemical Insights Research Institute Initiates Task Force to Establish Best Practices for Protecting Community Health Associated with Wildland-Urban Interface Fires." News Alert. June 6, 2024. https://mailchi.mp/chemicalinsights/news-alert-june_2024.

Business Wire. "Chemical Insights Research Institute Partners with Duke University and the East-West Center to Examine Dust and Ash from Devastating Hawaiian Wildfires." News Alert. May 20, 2024. <https://www.businesswire.com/news/home/20240520585377/en/Chemical-Insights-Research-Institute-Partners-with-Duke-University-and-the-East-West-Center-to-Examine-Dust-and-Ash-from-Devastating-Hawaiian-Wildfires>.

PR Web. "Chemical Insights Research Institutes and GBES Join Forces to Offer Cutting-Edge Continuing Education Courses for LEED and AIA Credits." Press Release. May 8, 2024. <https://www.prweb.com/releases/chemical-insights-research-institutes-and-gbes-join-forces-to-offer-cutting-edge-continuing-education-courses-for-leed-and-aia-credits-302139557.html>.

Chemical Insights Research Institute. "News Alert: Research from Chemical Insights Research Institute Finds Vat Photopolymerization 3D Printing Can Generate Hazardous Chemicals and Particles into the Air During Operation." News Alert. April 29, 2024. <https://mailchi.mp/chemicalinsights/news-alert-april-2024>.

EurekAlert! "Chemical Insights Research Institute Webinar Examines Extreme Climate Condition Impacts on Human Health." Press Release. April 1, 2024. <https://www.eurekalert.org/news-releases/1039633>.

Business Wire. "Impacts of Extreme Weather on Interior Design Examined in New Research: American Society of Interior Designers Releases Collaborative Design Research Brief with Chemical Insights Research Institute." News Alert. March 28, 2024. <https://www.businesswire.com/news/home/20240328666113/en>.

Business Wire. "Chemical Insights Research Institute Shares Its Latest Research Findings on PFAS Associated with Consumer and Commercial Textiles." News Alert. March 27, 2024. <https://www.businesswire.com/news/home/20240327381298/en/>.

Chemical Insights Research Institute. "News Alert: Chemical Insights Research Institute Presents Key Research Data on the Human Health Impact of Vaping, 3D Printing, and Wildfire Exposure at the Society of Toxicology 2024." News Alert. March 8, 2024. https://mailchi.mp/chemicalinsights/news-alert-march_2024.

EurekAlert! "Chemical Insights Research Institute Scientist Honored for Technical Innovation and STEM Education." Press Release. February 12, 2024. <https://www.eurekalert.org/news-releases/1033612>.

Chemical Insights Research Institute. "Announcement: Grant Opportunities." News Alert January 25, 2024. <https://mailchi.mp/chemicalinsights/news-alert-jan2024?e=a4bd02d209>.

Business Wire. "Chemical Insights Research Institute Commits to Public Health Research with the Opening of New Laboratories." News Alert. January 11, 2024. <https://www.businesswire.com/news/home/20240111005105/en>.

Chemical Insights Research Institute. "News Alert: Release of Comprehensive Emissions Data from Material Extrusion 3D Printing." News Alert. December 6, 2023. <https://mailchi.mp/chemicalinsights/news-alert-december2023>.

Chemical Insights Research Institute. "News Alert: Chemical Insights Research Institute and the U.S. Green Building Council Release Summary of Building Resilience for Health Summit." News Alert. October 31, 2023. <https://mailchi.mp/chemicalinsights/news-alert-october2023>.

EurekAlert! "Chemical Insights Research Institute Initiates Health Research to Understand the Dangers of Wildfire Smoke and How to Reduce Community Health Risks." Press Release. October 17, 2023. <https://www.eurekalert.org/news-releases/1004452>.

Chemical Insights Research Institute. "News Alert: Chemical Insights Research Institute Addresses Building Resilience and Wildfire Smoke at Greenbuild International Conference + Expo." News Alert. September 21, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/09/Chemical_Insights_Research_Institute_at_Greenbuild2023.pdf.

Chemical Insights Research Institute. "News Alert: The Effect of Wildfires and the Wildland Urban Interface (WUI) on Indoor Air Quality and Health in Residential Homes: Pilot Study Results." News Alert. September 1, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/09/The-Effect-of-Wildfires-and-the-WUI-on-IAQ.pdf>.

- Chemical Insights Research Institute. "News Alert: Sharing the Latest Data on Protecting Homes from Wildland Fires; Chemicals in Textiles; 3D Printing Emissions; and Vaping Risks." News Alert. August 11, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/08/CIRI-News-Alert-August2023.pdf>.
- Chemical Insights Research Institute. "News Alert: An Update of the National 3D Printer Emissions Standard (ANSI/CAN/UL 2904) Requires Reporting of Two New Chemicals." News Alert. July 25, 2023. https://chemicalinsights.ul.org/wp-content/uploads/2023/07/An-update-of-the-National-3D-Printer-Emission-Standard-ANSI_CAN_UL-2904.pdf.
- Chemical Insights Research Institute. "News Alert: CIRI Shares Creative Resources That Can Protect Air Quality Against Wildfire Smoke." News Alert. June 15, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/06/Creative-Resources-Can-Protect-Air-Quality-Against-Wildfire-Smoke.pdf>.
- Business Wire. "Chemical Insights Research Institute and the Campus Safety, Health, and Environmental Management Association Publish Guidance for the Safe Use of 3D Printing in Institutions of Higher Education." News Alert. May 24, 2023. <https://www.businesswire.com/news/home/20230524005232/en/Chemical-Insights-Research-Institute-and-the-Campus-Safety-Health-and-Environmental-Management-Association-Publish-Guidance-for-the-Safe-Use-of-3D-Printing-in-Institutions-of-Higher-Education>.
- Chemical Insights Research Institute. "News Alert: CIRI's PFAS Exposure Research Is Underway." News Alert. April 24, 2023. <https://chemicalinsights.ul.org/wp-content/uploads/2023/04/CIRIs-PFAS-Exposure-Research-is-Underway.pdf>.
- Chemical Insights Research Institute. "News Alert: Managing Hazardous Dust Following a Fire Event." News Alert. March 9, 2023. <https://mailchi.mp/chemicalinsights/news-alert-hazardous-dust-march2023?e=50b4b3850e>.
- PR Newswire. "Chemical Insights Research Institute and Emory University's Rollins School of Public Health Team to Study the Human Health Impact of PFAS Chemical Exposure." Press Release. February 21, 2023. https://www.prnewswire.com/news-releases/chemical-insights-research-institute-and-emory-universitys-rollins-school-of-public-health-team-to-study-the-human-health-impact-of-pfas-chemical-exposure-301751324.html?tc=eml_cleartime.
- EurekaAlert! "Chemical Insights Research Institute and Emory University's Rollins School of Public Health Team to Study the Human Health Impact of PFAS Chemical Exposure." Press Release. February 21, 2023. <https://www.eurekaalert.org/news-releases/980166>.
- Chemical Insights Research Institute. "News Alert: Holiday Safety Tips for Gifting and Operating 3D Printers." News Alert. December 16, 2022. <https://mailchi.mp/chemicalinsights/news-alert-3d-printer-gifting-december2022>.
- Chemical Insights Research Institute. "News Alert: Selecting Upholstered Furniture to Reduce Safety Risks of Open Flame Fires Without the Use of Hazardous Flame Retardants." News Alert. October 21, 2022. <https://mailchi.mp/chemicalinsights/selecting-upholstered-furniture-to-reduce-safety-risks-of-fires-without-the-use-of-flame-retardants?e=50b4b3850e>.
- Business Wire. "Chemical Insights Research Institute Receives Prestigious Award from the National Institutes of Health." News Alert. May 5, 2022. <https://www.businesswire.com/news/home/20220505005023/en/Chemical-Insights-Research-Institute-Receives-Prestigious-Award-from-the-National-Institutes-of-Health>.
- PR Newswire. "Chemical Insights Research Institute Releases Actionable Scientific Tools to Help Save Lives During Home Fires." Press Release. April 19, 2022. https://www.prnewswire.com/news-releases/chemical-insights-research-institute-releases-actionable-scientific-tools-to-help-save-lives-during-home-fires-301527956.html?tc=eml_cleartime.
- Business Wire. "Chemical Insights Research Institute Confirms Commitment to Studying Human Health Risks from Chemical Exposure." News Alert. February 22, 2022. <https://www.businesswire.com/news/home/20220222005377/en/Chemical-Insights-Research-Institute-Confirms-Commitment-to-Studying-Human-Health-Risks-from-Chemical-Exposure>.

Business Wire. "Chemical Insights Research Institute of Underwriters Laboratories Inc. Expands with Dr. Christa Wright to Lead Toxicology Health Sciences Center." News Alert. October 18, 2021.

<https://www.businesswire.com/news/home/20211018005989/en/Chemical-Insights-Research-Institute-of-Underwriters-Laboratories-Inc.-Expands-with-Dr.-Christa-Wright-to-Lead-Toxicology-Health-Sciences-Center>.

Business Wire. "Chemical Insights Research Institute, Underwriters Laboratories Inc. Teams with EPA's Office of Research and Development to Evaluate Safety Risks of DIY Air Cleaners for Wildfire Indoor Pollution Control." News Alert. August 26, 2021. <https://www.businesswire.com/news/home/20210826005187/en/Chemical-Insights-Research-Institute-of-Underwriters-Laboratories-Inc.-Teams-with-EPA%E2%80%99s-Office-of-Research-and-Development-to-Evaluate-Safety-Risks-of-DIY-Air-Cleaners-for-Wildfire-Indoor-Pollution-Control>.

PR Newswire. "Chemical Insights Research Institute, Underwriters Laboratories Inc., and Georgia State University Announce Research Study on Vaping and E-Cigarettes." Press Release. August 18, 2021. <https://www.prnewswire.com/news-releases/chemical-insights-research-institute-underwriters-laboratories-inc-and-georgia-state-university-announce-research-study-on-vaping-and-e-cigarettes-301358006.html>.

EurekAlert! "Chemical Insights, an Institute of Underwriters Laboratories, Publishes UL 118F Guidance Document on the Science of Achieving Both Fire and Chemical Safety for Residential Upholstered Furniture." Press Release. April 21, 2021. <https://www.eurekalert.org/news-releases/633714>.

Business Wire. "Chemical Insights Publishes eLearning Module COVID-19 and Its Impact on Indoor Air Quality." News Alert. December 8, 2020. <https://www.businesswire.com/news/home/20201208005130/en/Chemical-Insights-Publishes-eLearning-Module-COVID-19-and-Its-Impact-on-Indoor-Air-Quality>.

Business Wire. "Chemical Insights Partners with EPA to Improve the Lives of People with Asthma." News Alert. October 15, 2020. <https://www.businesswire.com/news/home/20201015005166/en>.

Business Wire. "Chemical Insights Publishes Educational Guide on Managing IAQ During the COVID-19 Pandemic and Beyond." News Alert. September 11, 2020. <https://www.businesswire.com/news/home/20200911005281/en/Chemical-Insights-Publishes-Educational-Guide-Managing-IAQ>.

Business Wire. "Chemical Insights' 3D Printing Toolkit Now Available to Schools Through U.S. Department of Education's Green Strides Portal." News Alert. July 30, 2020. <https://www.businesswire.com/news/home/20200730005164/en/Chemical-Insights%E2%80%99-3D-Printing-Toolkit-Schools-U.S>.

Business Wire. "Chemical Insights Earns Top Project of the Year Award from Environment + Energy Leader." News Alert. July 23, 2020. <https://www.businesswire.com/news/home/20200723005596/en/Chemical-Insights-Earns-Top-Project-Year-Award>.

Business Wire. "Chemical Insights Partners with American Industrial Hygiene Association to Present Virtual Course on Health Impact of 3D Printer Emissions." News Alert. June 4, 2020. <https://www.businesswire.com/news/home/20200604005553/en/Chemical-Insights-Partners-American-Industrial-Hygiene-Association>.

Business Wire. "Chemical Insights Partners with Duke University to Research Air Pollution Impacts on Asthmatic Children." News Alert. April 6, 2020. <https://www.businesswire.com/news/home/20200406005622/en/Chemical-Insights-Partners-Duke-University-Research-Air>.

Business Wire. "Chemical Insights Delivers Critical Pollutant Exposure Information You Can Trust." News Alert. March 3, 2020. <https://www.businesswire.com/news/home/20200303005666/en/>.

PR Newswire. "New Study from UL Chemical Safety and Emory University Demonstrates Ways for Reducing Flame Retardant Exposure and Flammability Hazards of Residential Furniture." News Alert. April 23, 2019. <https://www.prnewswire.com/news-releases/new-study-from-ul-chemical-safety-and-emory-university->

[demonstrates-ways-for-reducing-flame-retardant-exposure-and-flammability-hazards-of-residential-furniture-300833002.html](https://www.ul.com/press-releases/ul-publishes-ansi-can-ul-2904-standard-for-3d-printers-300789173.html?tc=eml_clearance).

PR Newswire. "UL Publishes ANSI/CAN/UL 2904 Standard for 3D Printers." News Alert. February 5, 2019. https://www.prnewswire.com/news-releases/ul-publishes-ansicanul-2904-standard-for-3d-printers-300789173.html?tc=eml_clearance.

PR Newswire. "UL Chemical Safety and Georgia Institute of Technology Release Pioneering 3D Printing Research." News Alert. November 12, 2018. <https://www.prnewswire.com/news-releases/ul-chemical-safety-and-georgia-institute-of-technology-release-pioneering-3d-printing-research-300748076.html?prn>.

PODCASTS AND LIVE BROADCASTS

Cichetti, Charlie. "Healthy Buildings and Predictive Science with Dr. Christa Wright." Interview with Dr. Wright (podcast). *GBES*. December 3, 2025. <https://gbes.com/green-building-matters-podcast/>.

Hinkley, Terri. "Beyond Band-aids: Vaping and the Adolescent Brain: Why School Nurses Matter". Interview with Dr. Wright (podcast). *NASN*. October 29, 2025. <https://www.youtube.com/watch?v=MteA1KHhT14>.

Lichtman, Flora. "The Toxic Aftermath of an Urban Fire." Interview with Mark Wilson (podcast). *Science Friday*. January 31, 2025. <https://www.sciencefriday.com/segments/los-angeles-fires-toxic-health-effects/>.

Cagle, Kate. "Palisades Pastor Hopes to Create 'center for Hope and Healing' amid Destruction." Interview with Mark Wilson (broadcast). *Spectrum 1 News - Los Angeles*. January 28, 2025. <https://spectrumnews1.com/ca/southern-california/wildfires/2025/02/10/palisades-fire-church-methodist>.

Thomas, Mica. "Wildfire Smoke Poses Widespread Environmental Threat." Interview with Marilyn Black (broadcast). *KBAK*. January 8, 2025. <https://bakersfieldnow.com/news/local/wildfire-smoke-poses-widespread-environmental-threat>.

Roedel, Kaleb. "Millions of Homes Are Being Built in Fire-Prone Areas of Mountain West as Wildfire Risks Grow." Interview with Marilyn Black (podcast). *KNUR Public Radio*. November 28, 2022. <https://www.kunr.org/energy-and-environment/2022-11-28/millions-homes-fire-prone-areas-mountain-west-wildfire-risks-grow>.

Roman, Jesse. "Flame Retardant Chemicals in Furniture." Interview with Marilyn Black (podcast). *NFPA*. October 25, 2022. <https://nfpa.libsyn.com/flame-retardant-chemicals-in-furniture>.

Lesseos, Sophia. "Wildfire Smoke Safety." Interview with Marilyn Black (broadcast). *KNDO/KNDU News*. August 12, 2022. https://www.nbcrighnow.com/news/wildfire-smoke-safety/article_123dfdda-1a42-11ed-9942-1b7192785ac8.html.

Edwards, Rebecca. "Safety Chat | The Ugly Truth About Flame Retardants with Dr. Marilyn Black." Interview with Marilyn Black (podcast). *Safewise.com*. July 21, 2021. <https://www.youtube.com/watch?v=4czinFVwp24>.

Nieminen, Robert. "Understanding Furniture Flammability and Human Health." Interview with Marilyn Black (podcast). *Interiors and Sources*. June 28, 2021. <https://iands.design/podcasts/45035/furniture-flammability-human-health>.

Cichetti, Charlie. "Interview with Material Chemical Expert Dr. Marilyn Black." Interview with Marilyn Black (podcast). *Green Building Education Services: Green Building Matters*. May 27, 2021. <https://www.gbcs.com/green-building-matters-podcast/interview-with-material-chemical-expert-dr-marilyn-black/>.

Michelson, Joan. "Risk, Tips for Kids & 3D Printers." Interview with Marilyn Black (podcast). *Insights and Tips from Remarkable Innovative Women on Green Connections Radio*. February 22, 2019. https://greenconnectionsradio.libsyn.com/risk-tips-for-kids-3d-printers-marilyn-black-ul-chemical-safety?tdest_id=376030.

Kloepple, Sarah, and Christoph Trappe. "Health Risks of 3D Printers." (podcast). Buildings. January 14, 2019. <https://www.buildings.com/articles/27763/health-risks-3d-printers>.

Wong, Kenneth. "Are Desktop 3D Printers Safe to Use?" Interview with Marilyn Black (podcast). Digital Engineering. December 13, 2018. <https://www.digitalengineering247.com/article/de-podcast-are-desktop-3d-printers-safe-to-use>.

OTHER ARTICLES

"The Dangers of Vaping: New Resources for Teens and Adults." November 11, 2025. *Safety + Health*. <https://www.safetyandhealthmagazine.com/articles/27529-the-dangers-of-vaping-new-resources-for-teens-and-adults?>

Gregory, Alicia. "UK Hosts Researchers, Community Members for National Environmental Health Sciences Meeting." *UKNow*. November 5, 2025. <https://uknow.uky.edu/research/uk-hosts-researchers-community-members-national-environmental-health-sciences-meeting>.

"Researchers Will Look for Health Risks in Lithium-Ion Battery Manufacturing." October 15, 2025. *Safety + Health Magazine*. <https://www.safetyandhealthmagazine.com/articles/27414-new-study-will-look-for-health-risks-in-lithium-ion-battery-manufacturing>.

Shaikhmag, Ada. "3D Printing and Indoor Air Quality: What Scientists Discovered in Schools." *3D Printing Industry (blog)*. October 10, 2025. <https://3dprintingindustry.com/news/3d-printing-and-indoor-air-quality-what-scientists-discovered-in-schools-245206/>.

"9 Need-To-Know Truths about Wildfires - No Matter Where You Live." October 9, 2025. *Facility Safety Management Magazine*. <https://fsmmag.com/Articles/2025/Daily-Articles/10/9-Need-To-Know-Truths-about-Wildfires-No-Matter-Where-You-Live.html?>

"Harmful Chemicals in Classrooms Tied to 3D Printer Emissions: Study." October 6, 2025. *Safety + Health*. <https://www.safetyandhealthmagazine.com/articles/27401-harmful-chemicals-in-classrooms-tied-to-3d-printer-emissions-study>.

Hannah Yahne. "Exposure Scientist Analyzes Contaminant Levels Collected after BioLab Fire." *Rockdale Citizen & Newton Citizen*. September 15, 2025. *Rockdale Newton Citizen*. https://www.rockdalenewtoncitizen.com/news/exposure-scientist-analyzes-contaminant-levels-collected-after-biolab-fire/article_1ce51f06-69e3-4e3a-8b82-b7641f976ea9.html.

Saunders, Sarah. "Modular Student-Built Open-Source Clura Enclosure for Safer Desktop 3D Printing." *3DPrint.Com | Additive Manufacturing Business*. August 31, 2025. <https://3dprint.com/320367/student-built-open-source-clura-3d-printer-enclosure/>.

UL Research Institutes. "Empowering Tomorrow with Safety Science Innovation." *Atlanta Business Chronicle*. August 26, 2025. <https://www.bizjournals.com/atlanta/news/2025/08/26/empowering-tomorrow-safety-science-innovation.html>.

White, Tom. "FDA Warns of Toxic Vape Chemicals After 50 People in the Midwest Suffer Lung Damage." *Billings Gazette*. August 21, 2025. https://billingsgazette.com/life-entertainment/article_d46b0f0f-9ce1-5ceb-9d37-2fffad0bd29a.html.

IFMA "IFMA, CIRI Team Up to Educate Facility Pros on Healthy Air." *Facility Executive*, August 1, 2024. <https://facilityexecutive.com/ifma-ciri-team-up-to-educate-facility-pros-on-healthy-air/>.

"3D Printer Emissions Can Harm Respiratory Health: Study." *Safety+Health*, July 22, 2024. <https://www.safetyandhealthmagazine.com/articles/25714-3d-printer-emissions-can-harm-respiratory-health-study>.

Sandle, Tim. "Why are the poor most impacted by climate change?" *Digital Journal*, July 21, 2024. <https://www.digitaljournal.com/life/why-are-the-poor-most-impacted-by-climate-change/article>.

- Irons, Jordyn, and Sam Fahmy. "Grants Enable Expansion of School of Public Health's EMPOWER Program." *Georgia State News Hub*, July 15, 2024. <https://news.gsu.edu/2024/07/15/grants-enable-expansion-of-georgia-state-school-of-public-healths-empower-program/>.
- Hayes, Rose. "How to Protect Kids from Extreme Heat." *ShareCare*, June 14, 2024. <https://www.sharecare.com/first-aid-safety/how-to-protect-kids-from-extreme-heat>.
- Roberts, Abby. "Researchers Evaluate 3D Printing Hazards in Educational Settings." *American Industrial Hygiene Association (AIHA)*, May 21, 2024. https://www.aiha.org/news/240521-researchers-evaluates-3d-printing-hazards-in-educational-settings?utm_campaign=sweekly24&utm_content=3d-printing-educational-settings&utm_medium=email&utm_source=aiha.
- Tagami, Ty. "With More 3D Printers in Homes and Schools, Potential Health Risks Examined." *The Atlanta Journal-Constitution*, April 10, 2024. <https://www.ajc.com/education/with-more-3d-printers-in-homes-and-schools-potential-health-risks-examined/QTGATPMITBD5VM6ZCQW6BQCT5I/>.
- Deen, Lango. "Outstanding Technical Contribution in Industry Award." *US Black Engineer (USBE) Information Technology*, April 3, 2024. <https://www.blackengineer.com/article/outstanding-technical-contribution-in-industry-award/>.
- Bourque, Caroline. "Ikea Faces a Class Action Lawsuit, Gen Z Turns to the Skilled Trades, and More." *MSN*, April 2, 2024. <https://www.msn.com/en-us/money/companies/ikea-faces-a-class-action-lawsuit-gen-z-turns-to-the-skilled-trades-and-more/ar-BB1kXQ0k>.
- SGB Media. "EXEC: Researching Exposures & Effects from PFAS and Consumer Textiles on Human Health." *SGB Media*, March 27, 2024. [EXEC: Researching Exposures & Effects from PFAS and Consumer Textiles on Human Health | SGB Media Online](https://www.sgbmedia.com/news/exec-researching-exposures-effects-pfas-consumer-textiles-human-health).
- "Reflections from Maui: EWC Researcher Visits Wildfire-Stricken Areas to Collect Samples to Aid Recovery." *East-West Center*, March 13, 2024. <https://www.eastwestcenter.org/news/announcement/reflections-maui-ewc-researcher-visits-wildfire-stricken-areas-collect-samples>.
- Hodnett, Cindy W. "ASID CEO Says 2024 Looks Positive for Interior Designers, Outlines Organizational Goals." *Designers Today*, March 12, 2024. <https://www.designerstoday.com/designers/asid-ceo-says-2024-looks-positive-for-interior-designers-outlines-organizational-goals/>.
- Pallerino, Michael J. "Driving Change: How the Chemical Insights Research Institute (CIRI) Has Become a Trusted Environmental Health Resource." *Cobb in Focus*, February 28, 2024. https://issuu.com/newsouthpublishing/docs/cobb_in_focus_march_april_2024.
- Tyrer-Jones, Alex. "CIRI Research Raises Health Concerns Over 3D Printing Emissions." *3DPrintingindustry*, December 11, 2023. <https://3dprintingindustry.com/news/ciri-research-raises-health-concerns-over-3d-printing-emissions-226978/>.
- Bartlett, Amanda. "Pretty Clever: How to Build a DIY Air Purifier as Smoke Hangs over SF Bay Area." *SFGATE*, September 20, 2023. <https://www.sfgate.com/bayarea/article/diy-air-purifier-bay-area-wildfire-smoke-16459463.php>.
- Perez, Adrianna, and Talia Soglin. "Can AC Protect Against Wildfire Smoke? How Chicagoans Can Stay Safe from Bad Air While Indoors." *Chicago Tribune*, August 27, 2023. <https://www.chicagotribune.com/news/environment/ct-wildfire-smoke-air-quality-purifiers-20230827-mcrquun4g5buxg3dsevtud5cze-story.html>.
- "Study of 3D Printing Emissions Leads to ANSI/CAN/UL Standard for Testing." *Safety+Health*, June 21, 2023. <https://www.safetyandhealthmagazine.com/articles/study-of-3d-printing-emissions-leads-to-ansi-can-ul-standard-for-testing>.

- Stevenson, Kerry. "UL 200B: A Definitive Guide to Safe 3D Printing for Educational Institutions and Users." *Fabbaloo*, June 12, 2023. <https://www.fabbaloo.com/news/ul-200b-a-definitive-guide-to-safe-3d-printing-for-educational-institutions-and-users>.
- Williams, Al. "3D Printing Safety (According to the UL)." *Hackaday*, June 4, 2023. <https://hackaday.com/2023/06/04/3d-printing-safety-according-to-the-ul/>.
- Schwaar, Carolyn. "Finally, Standards for 3D Printing Safety." *All3DP Pro*, May 30, 2023. <https://all3dp.com/4/finally-an-official-guide-to-3d-printing-safety/>.
- Russell, Thomas. "Researchers Study Human Exposure to PFAS Chemicals Used in Performance Fabrics." *Home News Now*, May 12, 2023. <https://homenewsnw.com/blog/2023/05/12/researchers-study-human-exposure-to-pfas-chemicals-used-in-performance-fabrics/>.
- Burch, Kelly. "The 7 Best Humidifiers for Your Baby, with Advice from Pediatricians." *Business Insider*, March 15, 2023. <https://www.insider.com/guides/home/best-humidifier-for-baby>.
- Rizzuto, Pat. "PFAS Lurking in Textiles, Effects on Health Subject of New Study." *Bloomberg Law*, March 3, 2023. <https://news.bloomberglaw.com/environment-and-energy/pfas-lurking-in-textiles-effects-on-health-subject-of-new-study>.
- "New Research into PFAS Impact of Textiles." *Ecotextile News*, February 21, 2023. <https://www.ecotextile.com/2023022030392/dyes-chemicals-news/new-research-into-pfas-impact-of-textiles.html>.
- Kite-Powell, Jennifer. "New Research Shows Fumes from 3D Printers Can Create Human Health Hazards." *Forbes*, October 2, 2022. <https://www.forbes.com/sites/jenniferhicks/2022/10/02/new-research-shows-fumes-from-3d-printers-can-create-human-health-hazards/?sh=1af73e0548b6>.
- "3 Tips for Making Safe, Healthy and Green Furniture Choices." *U.S. Green Building Council's Green Home Guide*, March 14, 2022.
- "UL Research Institute Studies Health Risks from Chemical Exposure." *Chemical Processing*, February 25, 2022. <https://www.chemicalprocessing.com/industrynews/2022/ul-research-institute-studies-health-risks-from-chemical-exposure/>.
- Kauppila, Ile. "3D Printing Emissions & Air Quality – A Practical Guide." *All3DP Pro*, January 22, 2022. <https://all3dp.com/1/3d-printing-emissions-air-quality/>.
- Northington, Laurie. "Chemical Insights Releases Summary Report on Fire Barriers for Upholstered Furniture." *Home Furnishing's Business*, January 5, 2022. <http://hfbusiness.com/hfbnow/ArticleId/22085/chemical-insights-releases-summary-report-on-fire-barriers-for-upholstered-furniture>.
- Saunders, Sara. "MakerBot METHOD X 3D Printer Receives GREENGUARD Certification for Clean Air System." *3Dprint*, December 3, 2021. [MakerBot METHOD X 3D Printer Receives GREENGUARD Certification for Clean Air System - 3DPrint.com | The Voice of 3D Printing / Additive Manufacturing](https://www.3dprint.com/1/3d-printer-receives-green-guard-certification-for-clean-air-system/)
- Langnau, Leslie. "MakerBot Systems Achieve GREENGUARD Certification from UL." *Engineering*, November 29, 2021. [MakerBot systems achieve GREENGUARD Certification from UL - Engineering.com](https://www.engineering.com/makerbot-systems-achieve-green-guard-certification-from-ul/)
- Shapiro, Debra. "3D Printer Safety Resources and Poster." *National Science Teaching Association (NSTA)*, October 26, 2021. <https://www.nsta.org/resources/freebies-science-teachers-october-26-2021>.
- Hendrixson, Stephanie. "Vat Photopolymerization and VOC Emissions: Study Results and User Guidelines." *Additive Manufacturing Magazine*, September 25, 2021. <https://www.additivemanufacturing.media/articles/vat-photopolymerization-and-voc-emissions-study-results-and-user-guidelines>.

- Stroud, Janet. "The Science Behind Good IAQ and Safer Spaces." *FMJ*, September 17, 2021. <https://www.fmlink.com/articles/science-behind-good-iaq-safer-spaces/>.
- "Chemical Insights, Underwriters Laboratories and GSU Launch Research Initiative on Vaping and E-Cigarettes." *Nicotine Science and Policy*, August 20, 2021. <https://www.news-medical.net/news/20210820/Chemical-Insights-Underwriters-Laboratories-and-GSU-launch-research-initiative-on-vaping-and-e-cigarettes.aspx>
- Henderson, Emily. "Chemical Insights, Underwriters Laboratories and GSU Launch Research Initiative on Vaping and E-Cigarettes." *News-Medical.net*, August 20, 2021. <https://www.news-medical.net/news/20210820/Chemical-Insights-Underwriters-Laboratories-and-GSU-launch-research-initiative-on-vaping-and-e-cigarettes.aspx>.
- "Research on DIY Air Cleaners to Reduce Wildfire Smoke Indoors | US EPA." *Environmental Protection Agency*, August 19, 2021. <https://www.epa.gov/air-research/research-diy-air-cleaners-reduce-wildfire-smoke-indoors>.
- "Georgia State Begins Aerosol Research Study for ENDS." *Vapor Voice*, August 13, 2021. <https://vaporvoice.net/2021/08/13/georgia-state-begins-aerosol-research-study-for-ends/>.
- "Georgia State Starts Research Initiative on Study of Electronic Nicotine Delivery Systems with Chemical Insights Nonprofit." *Georgia State News Hub*, August 12, 2021. <https://news.gsu.edu/2021/08/12/gsu-starts-research-initiative-on-study-of-electronic-nicotine-delivery-systems-with-chemical-insights-nonprofit/>.
- "3D Printers Precautions and Safety." *SV3DPRINTER*, July 29, 2021. <https://all3dp.com/2/3d-printing-safety-simply-explained/>.
- Druley, Kevin. "3D Printing Process Emissions May Cause 'Strong Irritation': Study." *Safety+Health*, July 29, 2021. <https://www.safetyandhealthmagazine.com/articles/21537-d-printing-process-emissions-may-cause-strong-irritation-study?linkId=126767299>.
- Saunders, Sarah. "New UL Study Reveals VOC Emission Rates Are Higher in SLA vs. FFF 3D Printing." *3DPrint.com*, July 19, 2021. <https://3dprint.com/283025/new-ul-study-reveals-voc-emission-rates-are-higher-in-sla-vs-fff-3d-printing/>.
- Pyle, Carla. "Follow Up: Questions About Flame Retardants in Upholstery? Help Is on the Way!" *National Upholstery Association (blog)*, June 28, 2021. <https://nationalupholsteryassociation.org/news-blog/10708498>.
- Northington, Laurie. "Chemical Insights' New Toolkit Helps Interior Designers Select Furniture with Greater Flammability Protection." *Home Furnishing's Business*, May 19, 2021. <http://hfbusiness.com/hfbnow/articleid/21388/chemical-insights-new-toolkit-helps-interior-designers-select-furniture-with-greater-flammability-protection>.
- Borneman, Jim. "Chemical Insights, an Institute of Underwriters Laboratories, Releases Toolkit to Help Interior Designers Specifying Furniture to Reduce Flame Retardant Exposure." *Textile World*, May 17, 2021. <https://www.textileworld.com/textile-world/2021/05/chemical-insights-an-institute-of-underwriters-laboratories-releases-toolkit-to-help-interior-designers-specifying-furniture-to-reduce-flame-retardant-exposure/>.
- Ledoux, Nicholas. "Chemical Insights Releases Toolkit to Help Interior Designers Specifying Furniture to Reduce Flame Retardant Exposure." *Furniture World Magazine*, May 10, 2021. <https://www.furninfo.com/Furniture-Industry-News/14010/>.
- Zinn, Harold. "In the News: May 2, 2021." *Product Safety Network News*, May 2, 2021. <http://www.productsafetynetworknews.com/2021/05/02/in-the-news-may-3-2021/>.
- "Chemical Insights Releases Interior Designer Toolkit." *Furniture Lighting & Decor*, April 28, 2021. <https://www.furniturelightingdecor.com/chemical-insights-releases-interior-designer-toolkit>.
- "Chemical Insights, an Institute of Underwriters Laboratories, Releases Toolkit to Help Interior Designers Specifying Furniture to Reduce Flame Retardant Exposure." *Yahoo! Finance*, April 28, 2021. <https://finance.yahoo.com/news/chemical-insights-an-institute-of-underwriters-laboratories-releases-toolkit-to-help-interior-designers-specifying-furniture-to-reduce-flame-retardant-exposure-140101000.html>.

Underwriters Laboratories, Releases Toolkit to Help Interior Designers Specifying Furniture to Reduce Flame Retardant Exposure

- "Free E-Learning Module: Maintaining Healthy IAQ During COVID-19." *Safety+Health*, March 2, 2021. <https://www.safetyandhealthmagazine.com/articles/20909-free-e-learning-module-maintaining-healthy-iaq-during-covid-19>.
- DE Editors. "Editor's Pick: UL Certification for Emissions-Free 3D Printing." *Digital Engineering* 24/7, January 6, 2021. <https://www.digitalengineering247.com/article/editors-pick-ul-certification-for-emissions-free-3d-printing/New-Products>.
- Listen, Vanesa. "School Guide to Offset the Invisible Threat in Fused Filament 3D Printing." *3DPrint.com*, August 12, 2020. <https://3dprint.com/271328/school-guide-to-offset-the-invisible-threat-in-fused-filament-3d-printing/>.
- Yosra, K.. "Chemical Insights' 3D Printing Toolkit Gives Key Takeaways to Use 3D Printers Safely at Home or in Schools." *3D Adept Media*, July 31, 2020. <https://3dadept.com/chemical-insights-3d-printing-toolkit-gives-key-takeaways-to-use-3d-printers-safely-at-home-or-in-schools/>.
- "Particles Emitted by Consumer 3D Printers Could Hurt Indoor Air Quality." *Georgia Tech Research: Horizons*, October 7, 2019. [Particles Emitted by Consumer 3D Printers Could Hurt Indoor Air Quality | College of Sciences | Georgia Institute of Technology | Atlanta, GA](https://www.gatech.edu/research/horizons/2019/10/07/particles-emitted-by-consumer-3d-printers-could-hurt-indoor-air-quality)
- "Skin Contact Main Exposure Route for Flame Retardants in Furniture, Study Suggests." *Chemical Watch*, April 29, 2019. <https://chemicalwatch.com/76917/skin-contact-main-exposure-route-for-flame-retardants-in-furniture-study-suggests>.
- Albright, Brian. "UL Releases Emissions Standards for 3D Printers." *Digital Engineering*, February 26, 2019. <https://digitalengineering247.com/article/ul-releases-emissions-standards-for-3d-printers/prototype>.
- Michelson, Joan. "How to Keep Kids Safe from 3-D Printers, Adults Too." *Forbes*, February 20, 2019. <https://www.forbes.com/sites/joanmichelson2/2019/02/20/how-to-reduce-the-risks-of-3d-printers-especially-for-kids/?sh=2c5ad8a92c40>.
- Stevenson, Kerry. "The Deep Implications of UL2904 on 3D Printing." *Fabbaloo*, February 8, 2019. <https://www.fabbaloo.com/blog/2019/2/8/the-deep-implications-of-ul2904-on-3d-printing>.
- Davies, Sam. "UL Publishes 3D Printing Standard for Testing and Assessing Particle and Chemical Emissions." *TCT Mag: 3D Printing & Additive Manufacturing Intelligence*, February 6, 2019. <https://www.tctmagazine.com/additive-manufacturing-3d-printing-news/ul-3d-printing-standard-particle-emission/>.
- O'Neal, Bridget. "ANSI/CAN/UL 2904 Standard: New Data on 3D Printer Particle Emissions & Safety Measures." *3DPrint.com*, February 6, 2019. <https://3dprint.com/235707/ansi-can-ul-2904-standard-new-data-3d-printer-particle-emissions-safety-measures/>.
- Vialva, Tia. "UL Publishes ANSI/CAN/UL 2904 Standard for Assessing 3D Printing Chemical Emissions." *3D Printing Industry*, February 6, 2019. <https://3dprintingindustry.com/news/ul-publishes-ansi-can-ul-2904-standard-for-assessing-3d-printing-chemical-emissions-148507/>.
- "New Standard ANSI/CAN/UL 2904 Addresses 3D Printer Emissions." *3DPrint.com*, February 5, 2019. [ANSI/CAN/UL 2904 Standard: New Data on 3D Printer Particle Emissions & Safety Measures - 3DPrint.com | The Voice of 3D Printing / Additive Manufacturing](https://www.3dprint.com/235707/ansi-can-ul-2904-standard-new-data-3d-printer-particle-emissions-safety-measures)
- Rizzuto, Pat. "Indoor Air Pollution Standards Announced for 3D Printers." *Bloomberg Law*, February 5, 2019. <https://news.bloomberglaw.com/environment-and-energy/indoor-air-pollution-standards-announced-for-3d-printers>.
- Kloepple, Sarah. "Health Implications and Safety Tips for Desktop 3D Printing." *Buildings*, December 20, 2018. <https://www.buildings.com/articles/27785/health-implications-and-safety-tips-desktop-3d-printing>.

- Panjwani, Laura. "R&D Special Focus: 3D Printing." *R&D World*, December 19, 2018. <https://www.rdworltonline.com/rd-special-focus-3d-printing-2/>.
- Goldsberry, Clare. "New Research Finds Potential Health Impact from Consumer FDM 3D Printers." *Plastics Today*, December 17, 2018. <https://www.plasticstoday.com/3d-printing/new-research-finds-potential-health-impact-consumer-fdm-3d-printers>.
- Walter, Kenny. "Researchers Investigate Unsafe Emissions from 3D Printers." *R&D World*, December 5, 2018. <https://www.rdworltonline.com/researchers-investigate-unsafe-emissions-from-3d-printers/>.
- Molitch-Hou, Michael. "3D Printing Health Risks Identified by UL and Georgia Tech." *Engineering.com*, November 28, 2018. <https://www.engineering.com/story/3d-printing-health-risks-identified-by-ul-and-georgia-tech>.
- Saunders, Sarah. "UL and Georgia Tech Continue Research into Impact of 3D Printing Emissions on Indoor Air Quality." *3DPrint.com*, November 20, 2018. <https://3dprint.com/230209/ul-and-georgia-tech-continue-research-into-impact-of-3d-printing-emissions-on-indoor-air-quality/>.
- Winick, Erin. "We Still Don't Know If 3-D Printers Pose a Health Risk – But I'm Taking No Chances." *MIT Technology Review*, November 15, 2018. <https://www.technologyreview.com/2018/11/15/139066/we-still-dont-know-if-3d-printers-pose-a-health-risk-but-im-taking-no-chances/>.
- "3D Printers Emit Dangerous Substances into the Air." *The Earth Chronicles of Life: Science*, November 13, 2018. <https://earth-chronicles.com/?s=3d+printers>.
- Clyburn, Thomas. "Another 3D Printer? Oh, Stop It, You're Killing Us. Perhaps Literally: Fears over Ultrafine Dust." *The Register*, November 13, 2018. https://www.theregister.com/2018/11/13/3d_printer_toxins/.
- Albright, Brian. "UL Study Identifies Hazardous 3D Printer Emissions." *Digital Engineering*, November 12, 2018. <https://www.digitalengineering247.com/article/ul-study-identifies-hazardous-3d-printer-emissions/>.
- "Research Raises Awareness of Indoor Air Quality Risk from 3D Printers." *Georgia Tech Research: Horizons*, November 12, 2018. <https://greenbuzz.gatech.edu/news/research-raises-awareness-indoor-air-quality-risk-3d-printers>.
- Dvorsky, George. "New Study Details All the Toxic Shit Spewed Out by 3D Printers." *Gizmodo*, November 12, 2018.
- Vialva, Tia. "MIT, Yale and University of Nottingham Examine Environment Impact of 3D Printing." *3D Printing Industry*, September 5, 2018. <https://3dprintingindustry.com/news/environmental-impact-3d-printing-2-139330/>.
- Vialva, Tia. "Is 3D Printing Really as Ecofriendly as We Think It Is?" *3D Printing Industry*, July 17, 2018. <https://3dprintingindustry.com/news/is-3d-printing-really-as-ecofriendly-as-we-think-it-is-136335/>.
- Barash, Martina, and Pat Rizzuto. "Desktop 3D Printers: Sales Soaring, Emissions Standards Coming." *Bloomberg Law*, May 23, 2018. <https://news.bloomberglaw.com/safety/desktop-3d-printers-sales-soaring-emissions-standards-coming>.
- Pelley, Janet. "3D Printer Emissions Raise Concerns and Prompt Controls." *Chemical & Engineering News*, March 26, 2018. <https://cen.acs.org/materials/3-d-printing/3-D-printer-emissions-raise/96/i13>.
- Kassner, Michael. "3D Printing May Be Hazardous to Your Health: The Case for a Particle Emissions Standard." *TechRepublic*, September 11, 2017.
- Scott, Clare. "UL Study Releases Data on Effects of 3D Printing on Human Health, Calls for New Standards." *3DPrint.com*, June 28, 2017. <https://3dprint.com/179369/3d-printing-emissions-study/>.
- Petch, Michael. "Is 3D Printing Safe? UL Publishes Safety Science of 3D Printing." *3D Printing Industry*, June 27, 2017. <https://3dprintingindustry.com/news/3d-printing-safe-ul-publishes-safety-science-3d-printing-117136/>.

- Kira. "3D Printer Emissions Study to Determine Impact on Air Quality and Health." *3ders 3D Printer and 3D Printing News*, December 8, 2015. <https://www.3ders.org/articles/20151208-3d-printer-emissions-study-determine-impact-air-quality-health.html>.
- Goehrke, Sarah. "How Safe Is 3D Printing? UL Teams Up with Two Universities to Examine 3D Printing's Effect on Air Quality & Human Health." *3DPrint.com*, December 4, 2015. <https://3dprint.com/108795/ul-research-indoor-air-quality/>.