学术报告

Indoor Air Quality and Its Improving in US Homes

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Abstract

Today's high performance green homes are reaching previously unheard of levels of airtightness and are using new materials, technologies and strategies, whose impacts on Indoor Air Quality (IAQ) cannot be fully anticipated from prior studies. As high performance new and existing green homes are deployed on a national scale, there are concerns about the potential negative IAQ and health impacts. This report is mainly related to environmental quality and risk reduction in high performance US homes. The ultimate goal of this report is to accelerate the adoption of IAQ, comfort, durability and sustainability measures into new homes and retrofits of existing homes. The report aims to understand the real world processes and systems that affect air pollutant exposures and provide the scientific basis to inform energy and environmental policy.

Short Bio of Dr. Brett Singer

Dr. Singer is a Staff Scientist and Principal Investigator (PI) in the Energy Technologies Area of Lawrence Berkeley National Laboratory (LBNL). He is a deputy leader of the Indoor Environment Group and co-leader of Indoor Air Quality research in the Residential Building Systems Group. His research areas include air pollutant emissions, physical-chemical processes, and pollutant exposures in both outdoor and indoor environments, environmental quality and risk reduction in high performance homes. His research aims to understand the real world processes and systems that affect air pollutant exposures. He is the editor of Indoor Air journals. He holds positions in many internationally renowned academic institutions, such as International Society of Indoor Air Quality Sciences Academy, LBNL Institutional Review Board. Dr. Singer has authored or co-authored over 40 papers published in archival, peer-reviewed journals dozens of technical reports and peer-reviewed conference papers.