

School of Earth and Environmental Sciences Colloquium Series

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“Innovating Sustainable Approaches for Environmental Applications”

Wed., Nov. 1st

12:15-1:30PM

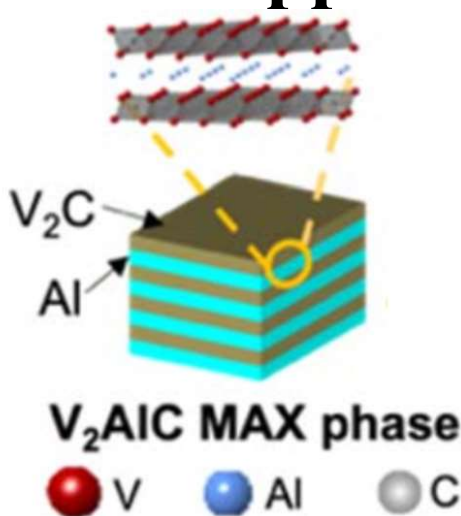
Science Bldg.

C-207

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Global water demands continue to rise in response to population growth and urbanization, compounded by stresses on freshwater supply due to global climate change. One significant concern that has garnered widespread attention is the presence of Per- and Polyfluoroalkyl Substances (PFAS) as emerging contaminants. These substances are alarming due to their exceptional persistence, widespread occurrence in water sources, and potential health implications. The U.S. Environmental Protection Agency (EPA) has established stringent safety levels for specific PFAS in drinking water, with some limits going as low as 20 nanograms per liter (ng/L). Sources of PFAS contamination include industrial and municipal wastewater treatment plants, landfill leachate, and air emissions from fluorochemical production facilities. This presentation will introduce new technologies for PFAS destruction in water and explore the measurement of volatile PFAS release from paper-based food packaging materials into the gas phase.

