

# Katherine A. Mirica 博士 講演会

## (Department of Chemistry, Dartmouth College)

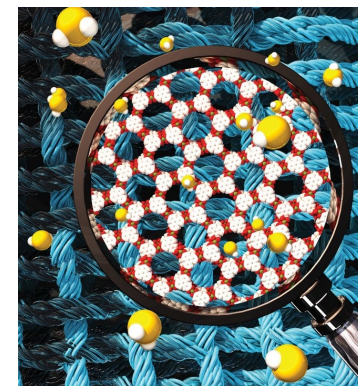


日時：7月28日（金） 16:30～17:30

場所：野田キャンパス 7号館4階7407教室 + オンライン (Zoom)

題目：Molecular Engineering of Conductive Framework Materials  
for Chemical Sensing, Filtration, and Detoxification

Molecular engineering of new materials holds promise for improving human health, safety, efficiency, and quality of life. This presentation will describe strategies for molecular engineering of conductive stimuli-responsive molecularly precise materials. The presentation will describe several approaches for design, synthesis, and device integration of two-dimensional (2D) conductive metal-organic frameworks (MOFs) and covalent organic frameworks (COFs) to create devices with promising utility in electroanalysis. An emphasis will be placed on the fundamental understanding and molecular design of modular structure-property relationships within this class of 2D materials. The presentation will also highlight how the integration of conductive MOFs on textiles can enable new approaches to simultaneous sensing, filtration, and detoxification. In summary, this presentation will demonstrate how molecular-level features within solid state materials can be used to tune their stimuli-responsive function in multifunctional devices.



ミーティングID: 950 8654 5509  
パスコード: 982360

<https://tus-ac-jp.zoom.us/j/95086545509?pwd=S2ZTTXllbktRN1pNYVljVW1ab2JMQT09>

問い合わせ先：機能性金属錯体懇談会 西原 寛（内線73-4625）