



# Houk-Jung Organic Colloquium

## Copper-Catalyzed Coupling Reactions: Mechanism, Catalysis, and Applications in Life Sciences

**Abstract:** Owing to their many attractive characteristics, copper catalysts represent appealing alternatives to precious metal catalysts, although various limitations remain in copper-catalyzed cross-coupling reactions. Recently, we and others recognized that copper catalysis presents a powerful strategy to functionalize  $sp^3$  hybridized carbon radicals for the construction of carbon-carbon and carbon-heteroatom bonds. In this talk, I will discuss our group's recent efforts in understanding the mechanism of copper catalysis and developing new copper-catalyzed cross-coupling reactions.

Prof. Wei Liu  
Department of Chemistry  
University of Cincinnati

UCLA College | Physical Sciences  
Chemistry & Biochemistry

Thursday, Feb 16, 2023 | 4:00 PM  
Mani L. Bhaumik Collaboratory - YH 4222  
Dongwon Yoo Seminar & Conference Hall

Questions: [Isaiahgtz@chem.ucla.edu](mailto:Isaiahgtz@chem.ucla.edu)