



Houk-Jung Organic Colloquium

Choose Your Own Adventure in Metal-Hydride Catalysis

Abstract: Metal hydrides promote a wide-range of organic transformations that include both C-C bond making and C-C bond breaking processes. This lecture will highlight the development of Rh and Co-catalysts for use in enantioselective hydrofunctionalizations (e.g., hydroacylation, hydroamination, and hydrothiolation). In addition, a unique transfer hydroformylation will be described that allows conversion of aldehydes/alcohols to olefins. The presentation emphasizes mechanistic studies that showcase the role of counterions for controlling selectivities. Lastly, we disclose applications of these catalysts for transforming feedstocks into more complex building blocks and natural products.

Prof. Vy Dong
Department of Chemistry
University of California, Irvine

UCLA College | Physical Sciences
Chemistry & Biochemistry

Thursday, Mar 9, 2023 | 4:00 PM
Mani L. Bhaumik Collaboratory - YH 4222
Dongwon Yoo Seminar & Conference Hall

Questions: Isaiahgtz@chem.ucla.edu