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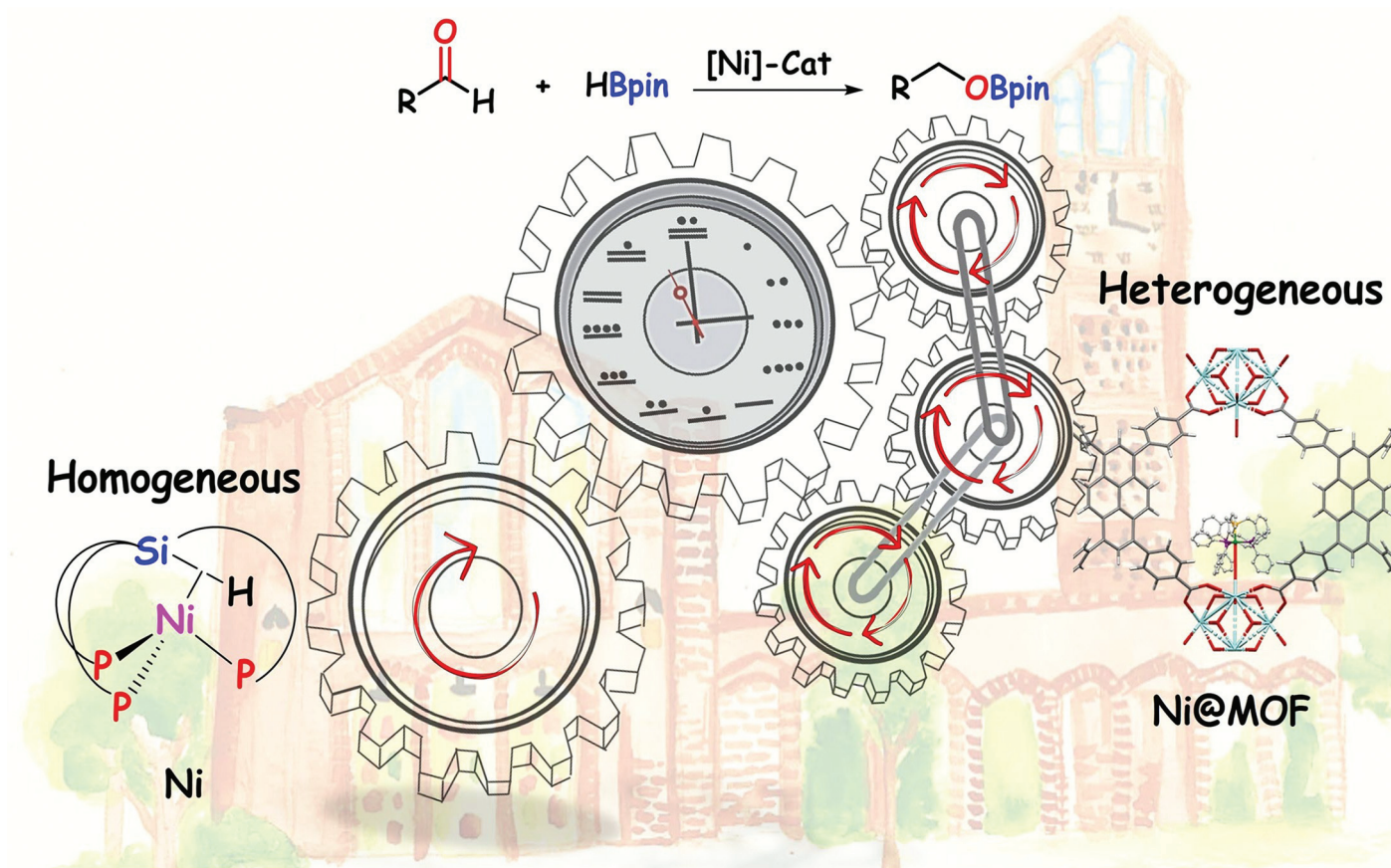
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Showcasing research from Professor Vicky Montiel-Palma's laboratory, Department of Chemistry, Mississippi State University, Starkville, United States of America.

Homogeneous *versus* MOF-supported catalysis: a direct comparison of catalytic hydroboration with Ni tripodal  $\text{P}_3\text{E}$  (E = Si, Ge) complexes

Ni complexes derived of multidentate semirigid phosphine ligands incorporating Si or Ge are selective homogeneous catalysts for the hydroboration of aldehydes and ketones. Yet, grafting them onto MOF material NU-1000 enhances their catalytic activity, allowing the reactions to be conducted at room temperature under aerobic conditions while permitting catalyst recyclability. These Ni organometallic species retain their structure upon MOF-grafting and our results indicate catalysis takes place at the Si or Ge atoms!

Artwork by Gaby Sanchez-Lecuona

As featured in:



See Virginia Montiel-Palma *et al.*, *Dalton Trans.*, 2023, **52**, 8883.