Catalytic transformations: Heterogeneous and homogeneous reactions

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Abstract:
Palladium catalyzed C–H bond functionalization methods provide an attractive strategy for late-stage derivatization of complex molecules. Methods for the olefination and oxygenation of C–H bonds using this strategy is discussed. Gold is considered an inert metal, however at very small sizes, it too can catalyze reactions. The study of nanoporous gold in ultra-high vacuum provides a deeper understanding of these catalysts. Insight into the activation/deactivation, sintering, and oxygen adsorption of these materials will be presented.

Bio:
Dr. Kara Stowers is currently a Postdoctoral Fellow at Harvard University. Her postdoctoral studies involve studying the catalytic activity of nanoporous gold for the activation of oxygen and the oxidation of alcohols.

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