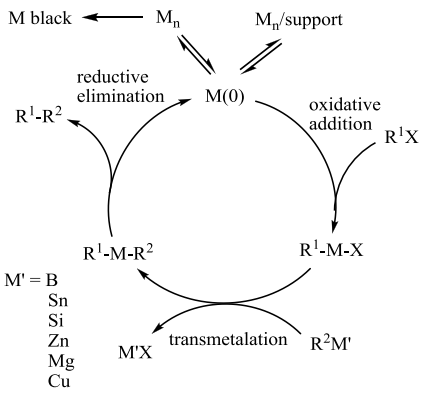
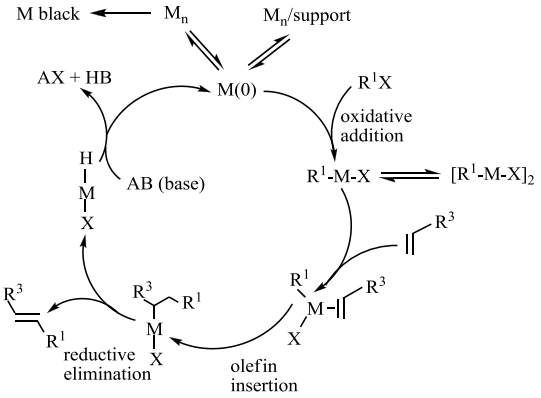
# Carbon-Carbon Coupling Reactions with Heterogeneous Precatalysts

**C-C coupling reactions are among the most useful approaches and the most widely studied methods for the synthesis of organic building blocks, fine chemicals, natural products, pharmaceuticals and biologically active compounds. Due to the drawbacks of homogeneous catalysts (e.g. difficulty of separating catalysts from products), it is desirable to develop heterogeneous catalysts for industrial applications. Regardless of the nature of the truly catalytic species, it is always expected for either supported metal particles or supported metal complexes to offer high TON or high recycle numbers and leave minimal levels of residual metal with the products.**




C-C cross-coupling reactions




Heck reactions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