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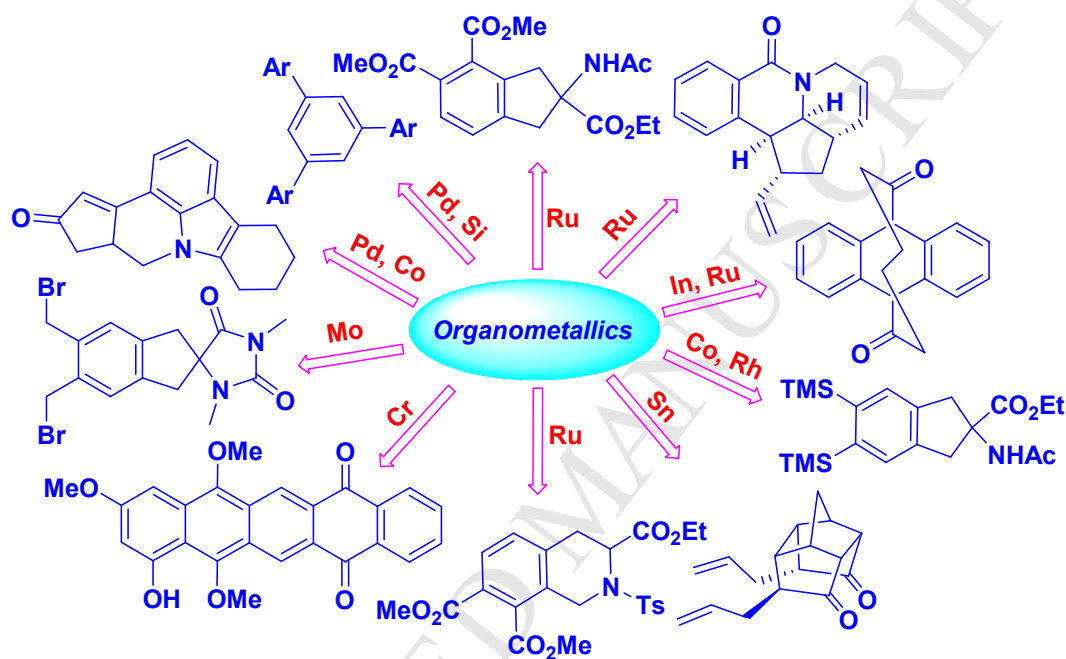
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Application of Organometallics in Organic Synthesis

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Graphical Abstract



Abstract

In this account, we summarize new synthetic approaches to diverse targets such as α -amino acids, cyclophanes, C_3 -symmetric molecules, heterocycles, and polycycles by utilizing a variety of organometallic reagents. A wide range of molecules described here are valuable either in material science or in medicinal chemistry. To assemble these molecules, we used boron, chromium, cobalt, indium, molybdenum, palladium, rhodium, ruthenium, silicon, tin, and zinc-based reagents.

Keywords:

Organometallics; metathesis; Suzuki coupling; [2+2+2] cycloaddition; α -amino acids; cyclophanes; C_3 -symmetric molecules.

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