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设计合成过渡金属络合物来进行碳氢键活化的研究不对称催化：包括手性配体的合成应用和不对称催化反应的研究

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代表论著：

17. Shintani, R.*; Park, S.; **Duan, W.-L.**; Hayashi, T.* Palladium-Catalyzed Asymmetric [3 + 3] Cycloaddition of Trimethylenemethane Derivatives with Nitrones. *Angew. Chem., Int. Ed*. **2007**, *46*, 5901.

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