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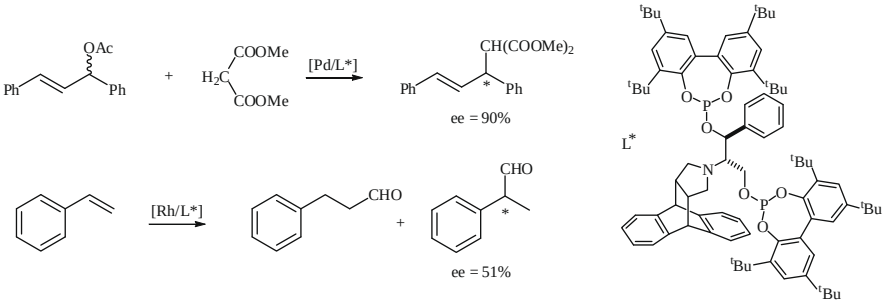
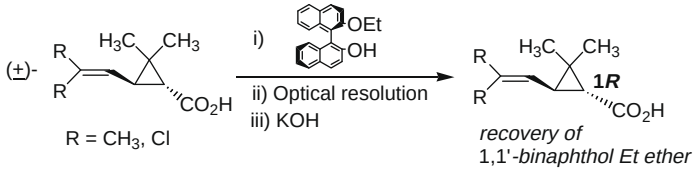
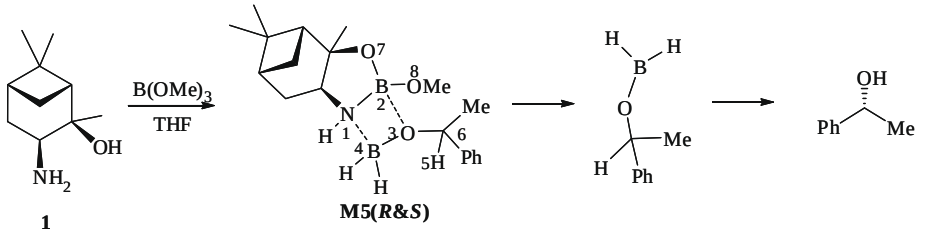
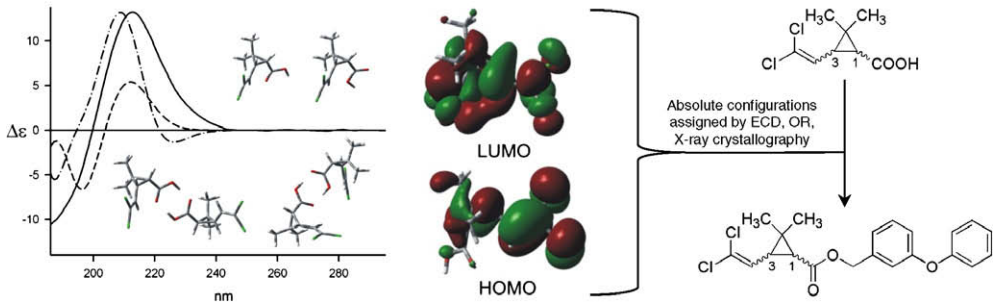
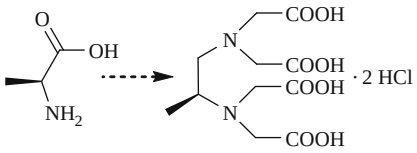
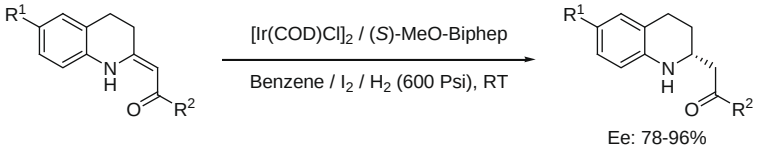


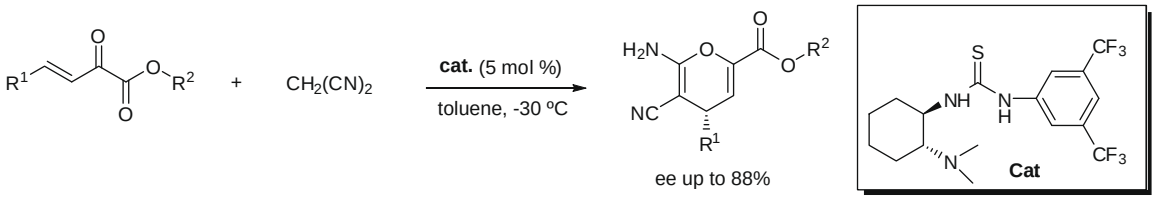


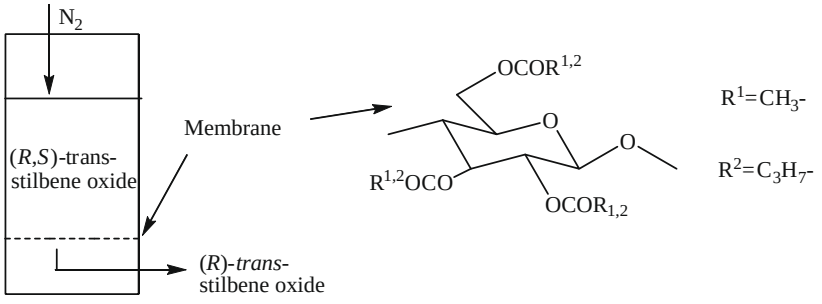


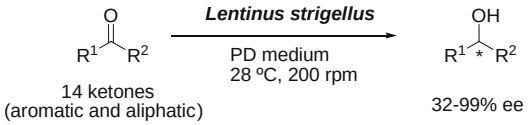


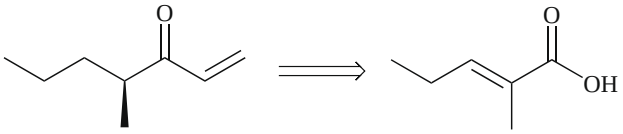






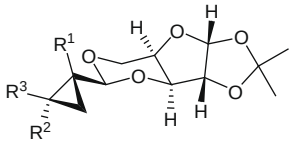






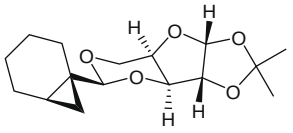
1
chichimol ketone

2



25–33

25 R^1 = H , R^2 = H, R^3 = Ph
26 R^1 = H , R^2 = H, R^3 = *o*-$NO_2C_6H_4$
27 R^1 = H , R^2 = H, R^3 = *o*-$MeOC_6H_4$
28 R^1 = H , R^2 = H, R^3 = *p*-$MeOC_6H_4$
29 R^1 = H , R^2 = H, R^3 = Me
30 R^1 = H , R^2 = H, R^3 = *n*-C_7H_{15}
31 R^1 = H , R^2 = Ph, R^3 = Ph
32 R^1 = Me , R^2 = H, R^3 = Ph
33 R^1 = *n*-C_6H_{13} , R^2 = H, R^3 = Ph



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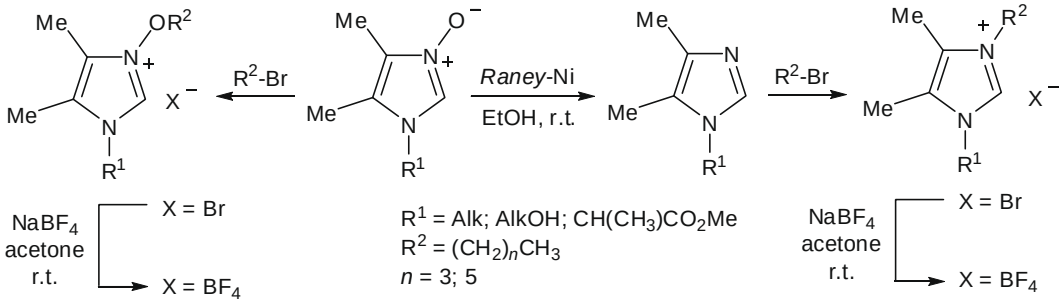
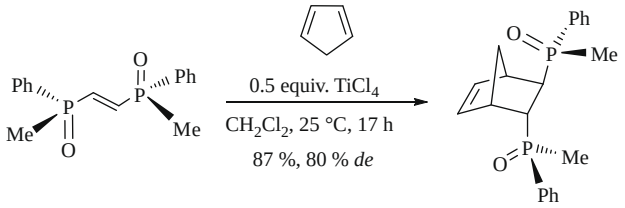
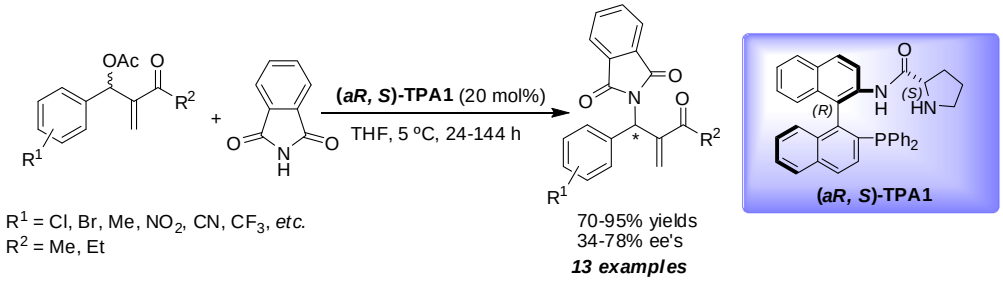




(S_P,S_P)-**1** (S_P,S_P,2*R*,3*R*)-**2**

The asymmetric Diels–Alder cycloaddition of the enantiopure di-*P*-stereogenic dienophile (S_P,S_P)-**1** in the presence of 0.5 equiv of $TiCl_4$ gives cycloadduct (S_P,S_P,2*R*,3*R*)-**2** in 87% yield and 80% de.



R^1 = Cl, Br, Me, NO_2, CN, CF_3, *etc.*
R^2 = Me, Et

70-95% yields
34-78% ee's
13 examples

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