

Scheme 1:

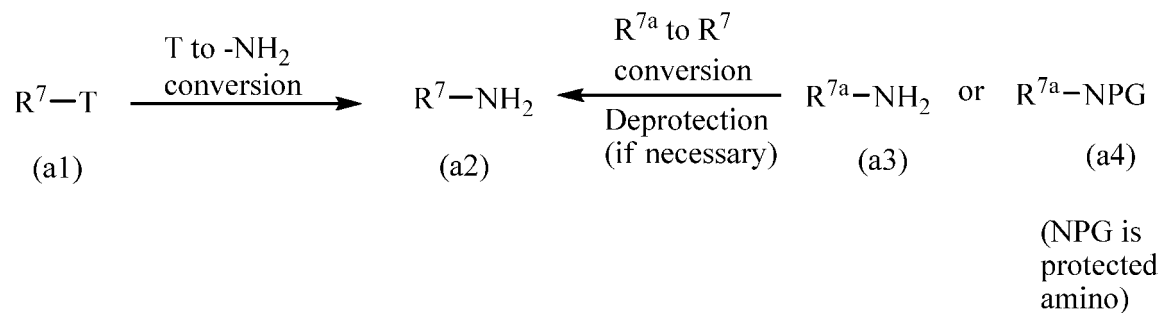


Fig. 1

Scheme 2:

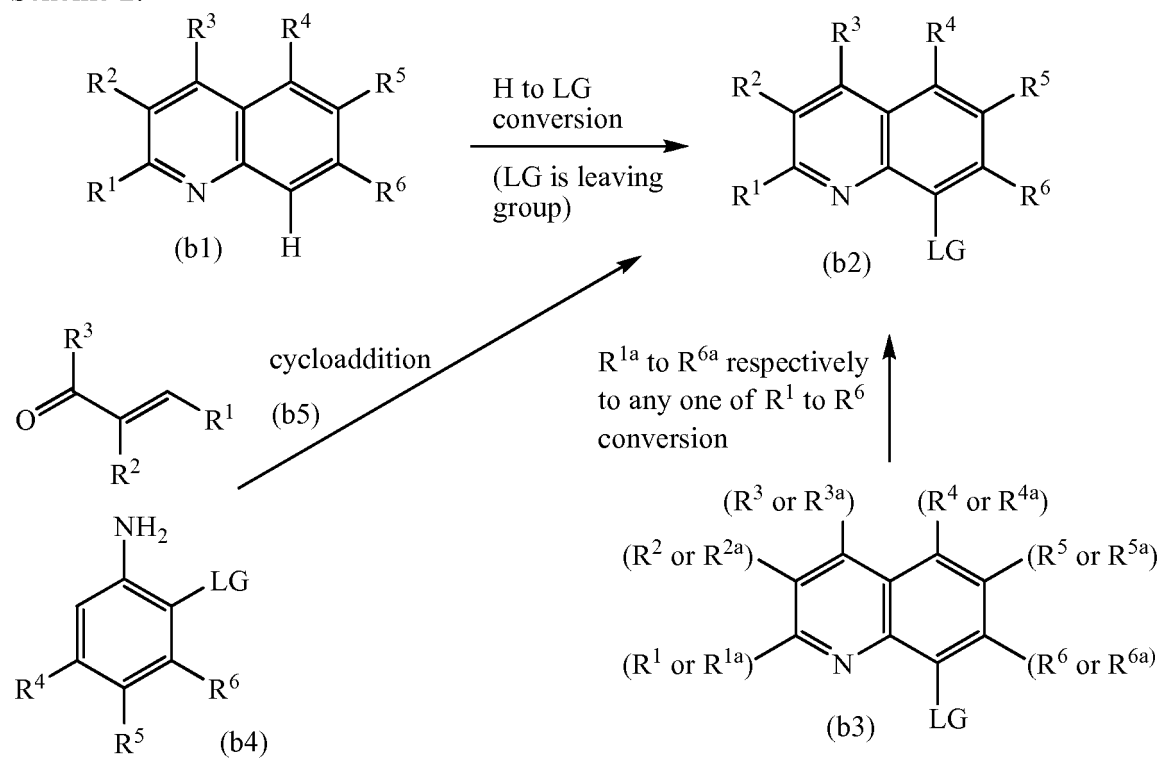


Fig. 2

Scheme 3:

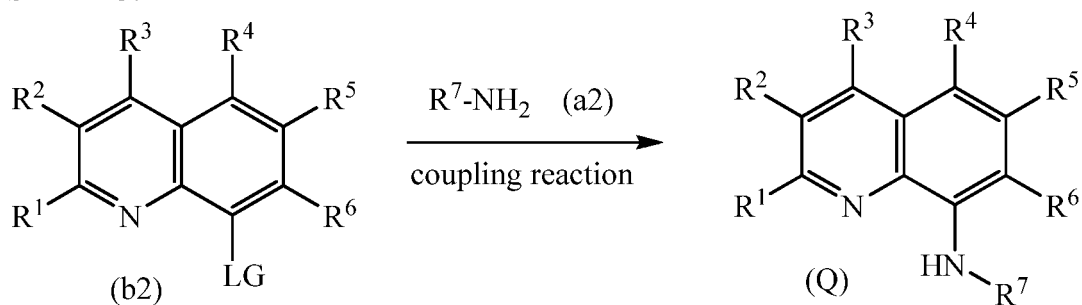
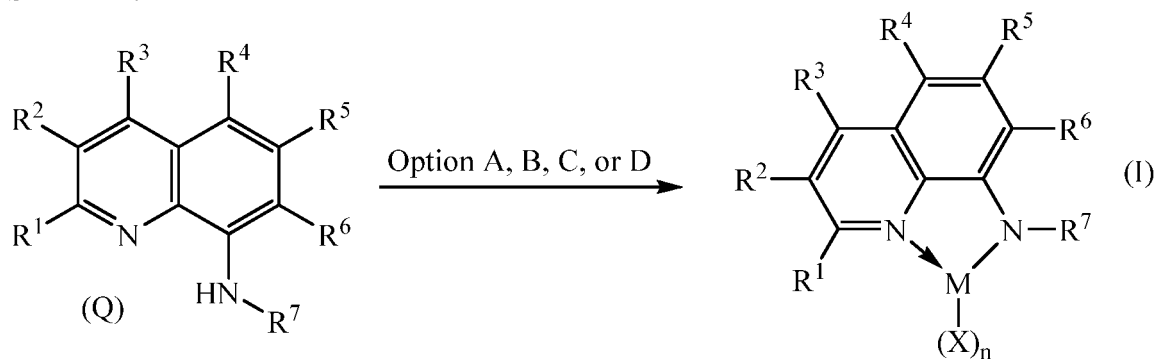


Fig. 3

Scheme 4:



Option A: 1) Base  
2)  $M(Cl)_{n+1}$   
3)  $X-Li$  or  $X-MgBr$

Option B: 1)  $M(NR^K R^L)_{n+1}$   
2)  $X-Li$  or  $X-MgBr$

Option C: organometallic  $M(X)_{n+1}$

Option D: 1)  $M(Cl)_{n+1}$   
2) 3 mole equiv.  
 $X-Li$  or  $X-MgBr$

Fig. 4