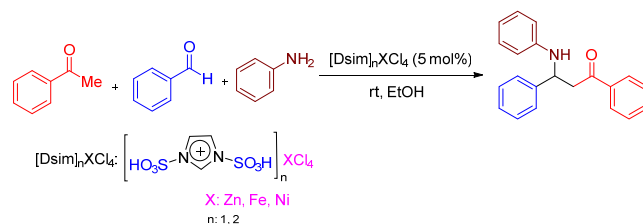








(I) In another exploration, 1,3-disulfoimidazolium transition metal chloride systems:  $[\text{Dsim}]_2[\text{ZnCl}_4]$ ,  $[\text{Dsim}][\text{FeCl}_4]$  and  $[\text{Dsim}]_2[\text{NiCl}_4]$  were prepared with anion exchange of  $[\text{Dsim}]\text{Cl}$  with  $\text{ZnCl}_2$ ,  $\text{FeCl}_3$ , and  $\text{NiCl}_2$ .  $[\text{Dsim}]_n\text{XCl}_4$  as Brønsted-Lewis acidic catalyst, for the one pot three component Mannich-type syntheses of  $\beta$ -amino carbonyl compounds at room temperature in EtOH as solvent with high yields and very short reaction times [16].



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