Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information for

Recent advances in C-CN and C-H bonds activation of green nitrile (MeCN) to organo-complexation, cyanation and cyanomethylation

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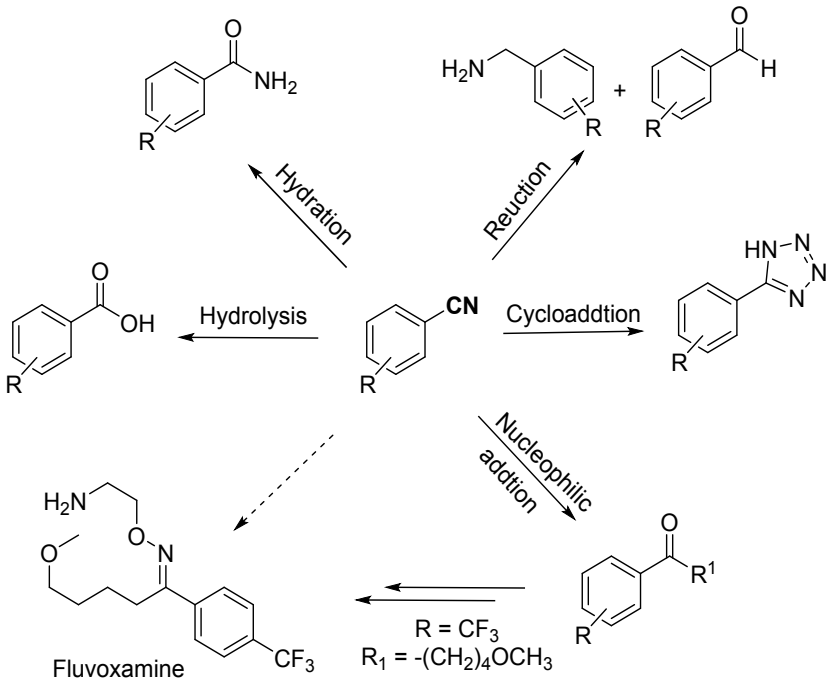
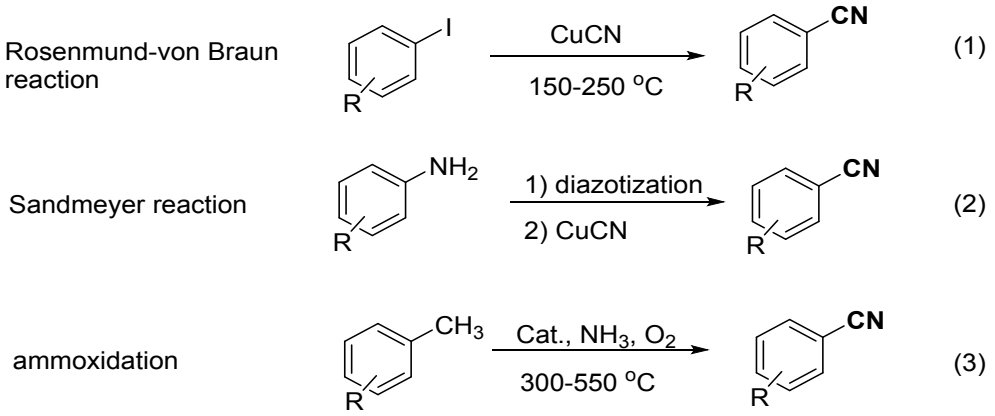
1. General information

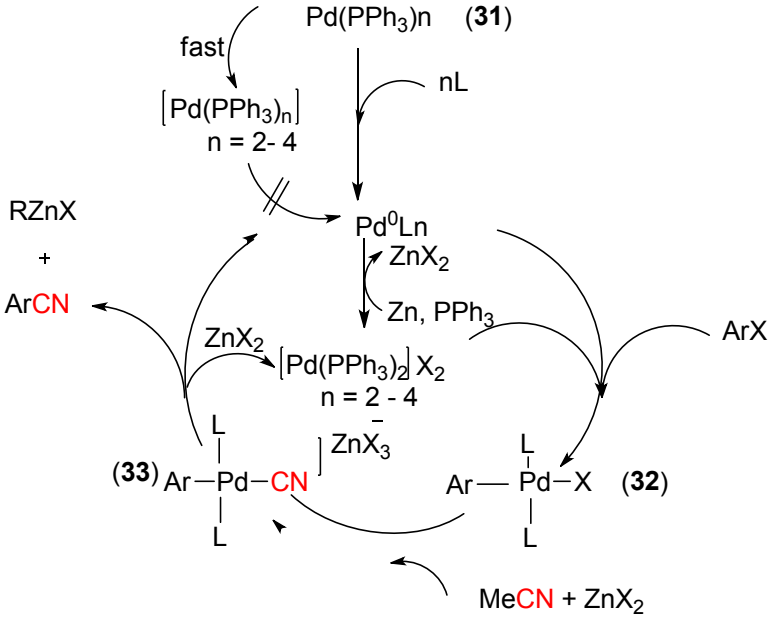
Experimental part: All the literature are search from scifinder, Scopus, google and commercial available sources. All schemes, tables and figue are drawn by using chem-draw software.



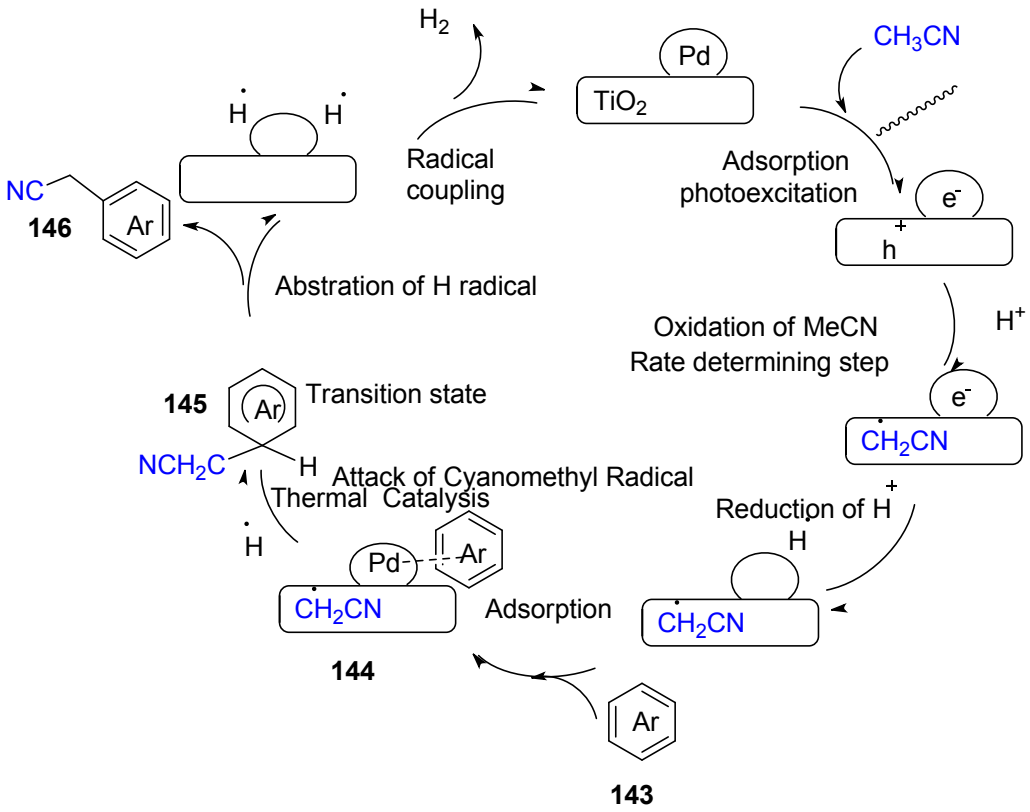
Scheme 1. Nitriles as precursors of amines, amides, aldehydes, carboxylic acid



Scheme 2. Traditional methodologies for the synthesis of benzonitriles



Scheme 3. Mechanism for Pd-catalyzed cyanation with acetonitrile



Scheme 4. Platinum-catalyzed cyanomethylation of hydrocarbons with acetonitrile