首届致远学术节 学生科研成果展示

Topic:

Copper-Catalyzed Aerobic Oxidation of Aldehydes to Nitriles Author: Yu Zhou (周雨) Advisor: Prof. Xiaomin Xie

Research background:

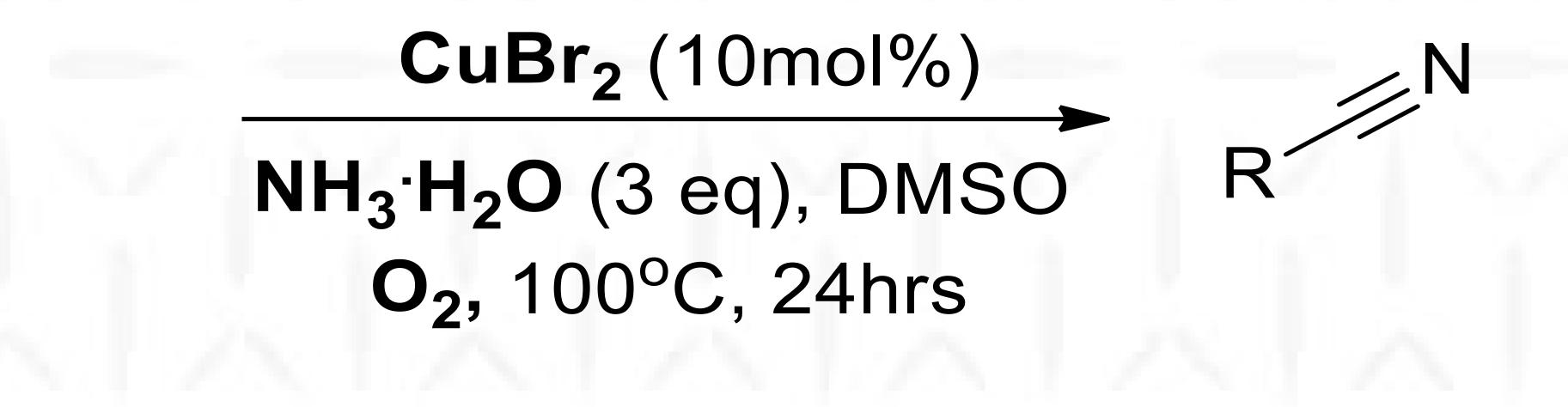
Many reactions have been set up from aldehydes (abundant in nature) to nitriles (valuable to many areas such as agriculture, medicine, polymers, etc) by stoichiometric oxidants and toxic noble metal catalysts. A cheap, efficient and green path to do the change is in great need indeed !

Research Purpose: To establish a green and efficient way

to carry out the reaction from aldehydes to nitriles

Research Method:

Ammonia is the nitrogen source, and oxygen is the oxidant. Cheap copper salts are the catalysts.



Achievement:

Selective Aerobic Oxidation of Amines to Nitriles Catalyzed By CuBr₂/ N-methyl Imidazole. ----Submitted to Synlett.

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