

Supplementary Section

Copper nanoparticles anchored biguanidine-modified Zr-UiO-66 MOFs : A competent heterogeneous and reusable nanocatalyst in Buchwad-Hartwig and Ullmann type coupling reactions

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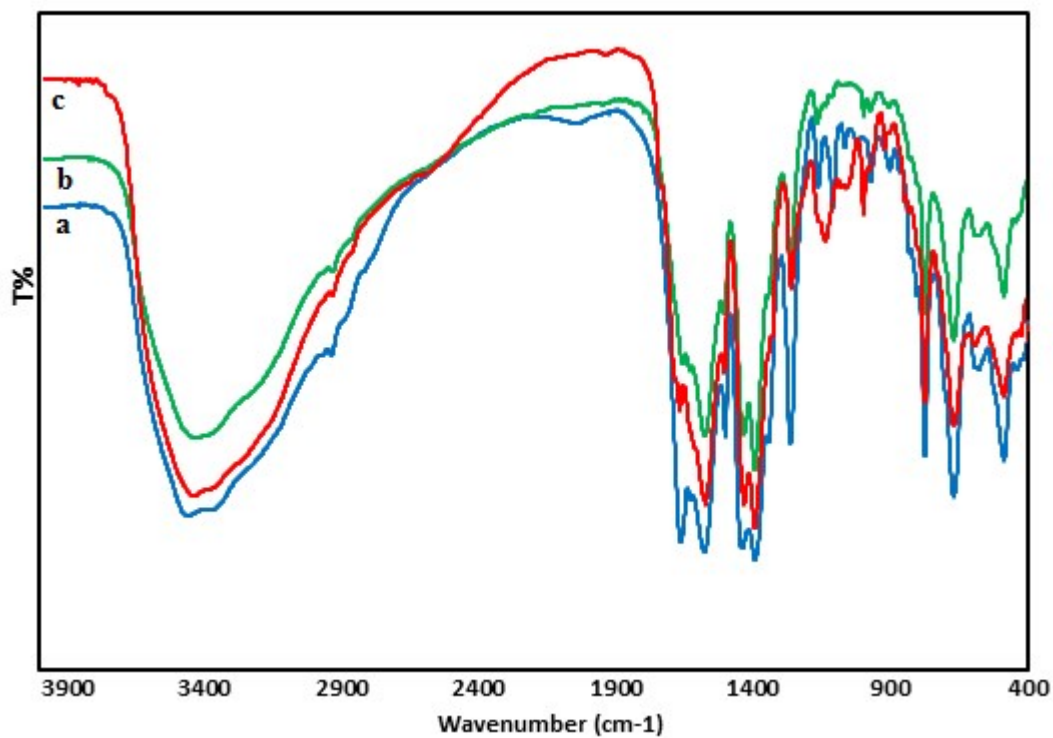


Fig. S1. FT-IR spectra of UiO-66-NH₂ (a), UiO-66-biguanidine (b) and UiO-66-biguanidine/Cu(c).

$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ for selected products

