Supplementary Materials: Article Recyclable Fe3O4 Nanoparticles Catalysts for Aza-Michael Addition by Magnetic Field

Zhen-Xing Li, Dan Luo, Ming-Ming Li, Xiao-Fei Xing, Zheng-Zheng Ma and Hao Xu

Figure S1. TEM image of the recyclable Fe3O4 nanoparticles.

Figure S2. Wide-angle X-ray diffraction pattern of the recyclable Fe3O4 nanoparticles.
The NMR spectra of aza-Michael addition products.

3-morpholinopropanamide (Table 2, entry 1).

3-(pyrrolidin-1-yl)propanamide (Table 2, entry 2).

3-(2-methylpiperidin-1-yl)propanamide (Table 2, entry 3).
3-(4-methylpiperidin-1-yl)propanamide (Table 2, entry 4).

3-(4-ethylpiperazin-1-yl)propanamide (Table 2, entry 5).
3-(benzylamino)propanamide (Table 2, entry 6).

3-morpholino-1-morpholinopropan-1-one (Table 2, entry 7).
1-morpholino-3-(pyrrolidin-1-yl)propan-1-one (Table 2, entry 8).

3-(2-methylpiperidin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 9).
3-(4-methylpiperidin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 10).

3-(4-ethylpiperazin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 11).
3-(benzylamino)-1-morpholinopropan-1-one (Table 2, entry 12).

3-morpholin-4-yl-N-phenyl-propionamide (Table 2, entry 13).
N-phenyl-3-pyrrolidin-1-yl-propionamide (Table 2, entry 14).

3-(4-methyl-piperidin-1-yl)-N-phenyl-propionamide (Table 2, entry 15).
3-benzylamino-N-phenyl-propionamide (Table 2, entry 16).