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Supported CuBr on graphene oxide/Fe_3O_4: a highly efficient, magnetically separable catalyst for the multi-gram scale synthesis of 1,2,3-triazoles

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(1) 2-((1-benzyl-1*H*-1,2,3-triazol-4-yl)methoxy)benzoate

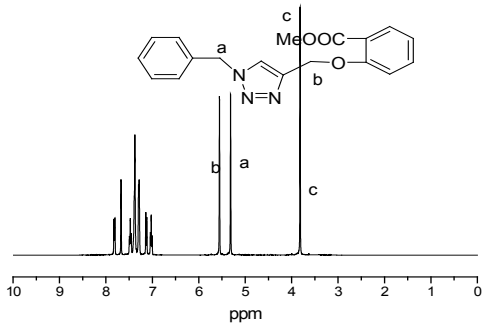

Fig. S1 ^{1}H NMR spectrum of methyl 2-((1-benzyl-1*H*-1,2,3-triazol-4-yl)methoxy)benzoate

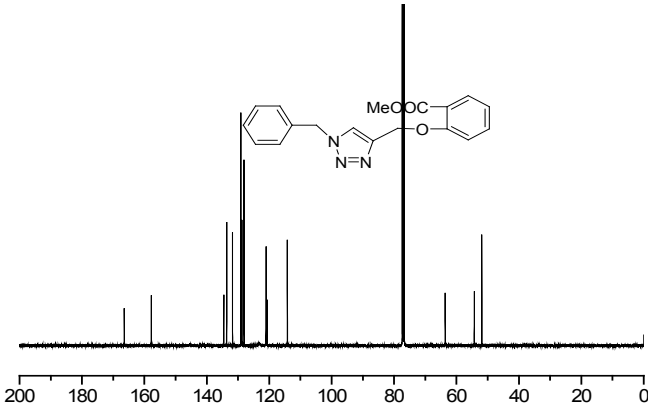

Fig. S2 ^{13}C NMR spectrum of methyl 2-((1-benzyl-1*H*-1,2,3-triazol-4-yl)methoxy)benzoate

(2) 4-((2-isopropyl-5-methylphenoxy)methyl)-1-benzyl-*1H*-1,2,3-triazole

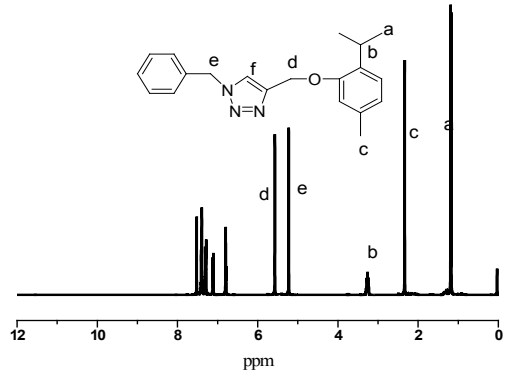

Fig. S3 ^{1}H NMR spectrum of 4-((2-isopropyl-5-methylphenoxy)methyl)-1-benzyl-*1H*-1,2,3-

triazole

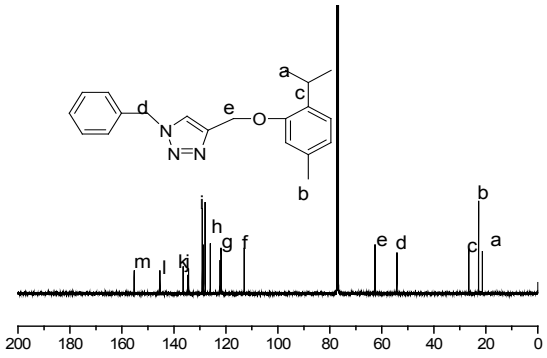

Fig. S4 ^{13}C NMR spectrum of 4-((2-isopropyl-5-methylphenoxy)methyl)-1-benzyl-*1H*-1,2,3-triazole

(3) 4-((4-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-benzyl-1*H*-1,2,3-triazole

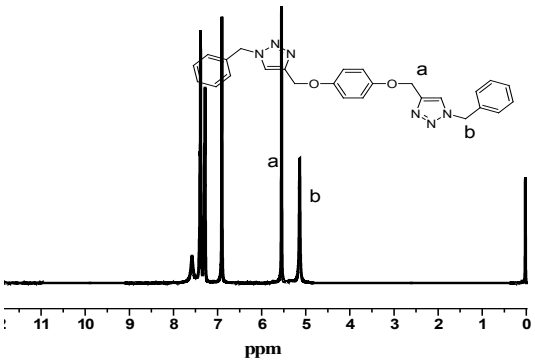

Fig. S5 ^{1}H NMR spectrum of 4-((4-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-benzyl-1H-1,2,3-triazole

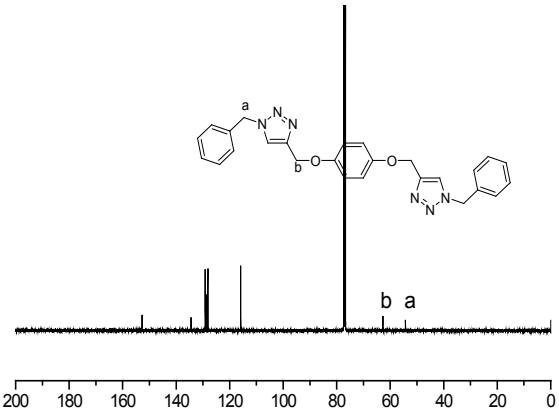

Fig. S6 ^{13}C NMR spectrum of 4-((4-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-benzyl-1H-1,2,3-triazole

(4)

4-((4-((1-butyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-butyl-1*H*-1,2,3-

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triazole

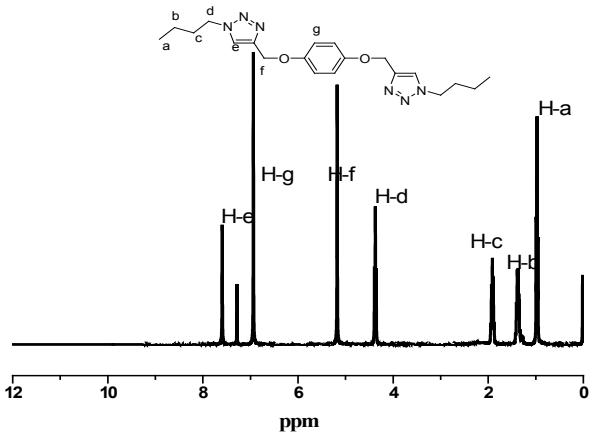

Fig. S7 ^{1}H NMR spectrum of 4-((4-((1-butyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-butyl-1*H*-1,2,3-triazole

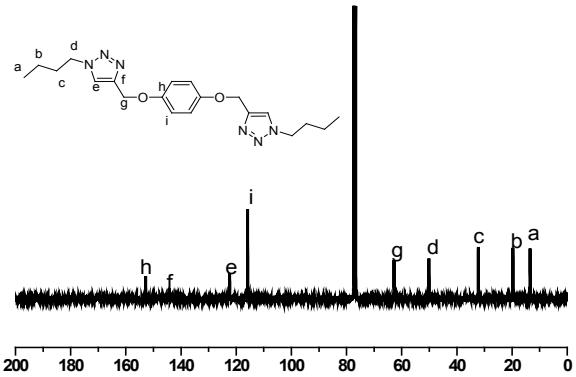

Fig. S8 ^{13}C NMR spectrum of 4-((4-((1-butyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-butyl-1*H*-1,2,3-triazole

(5) 4-((3-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)-1-benzyl-1*H*-1,2,3-triazole

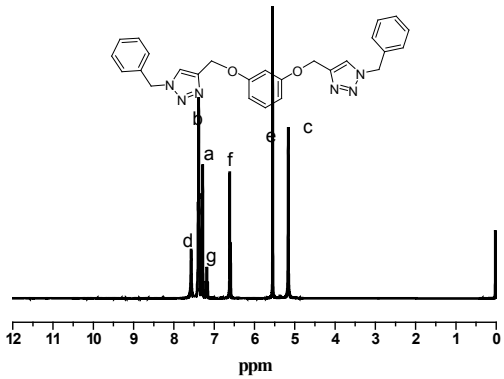

Fig. S9 ^{1}H NMR spectrum of 4-((3-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl)

-1-benzyl-1*H*-1,2,3-triazole

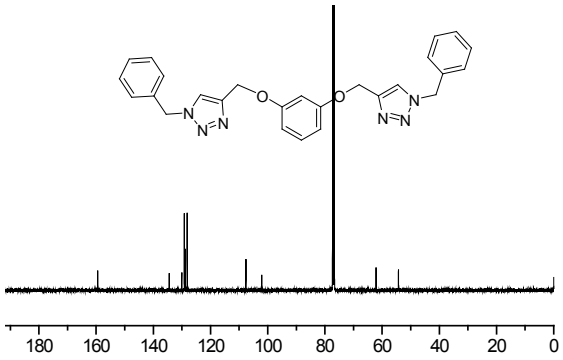

Fig. S10 ^{13}C NMR spectrum of 4-((3-((1-benzyl-*1H*-1,2,3-triazol-4-yl)methoxy)phenoxy)methyl) -1-benzyl-1*H*-1,2,3-triazole

(6) Methyl 3,5-bis((1-benzyl-*1H*-1,2,3-triazol-4-yl) methoxy) benzoate

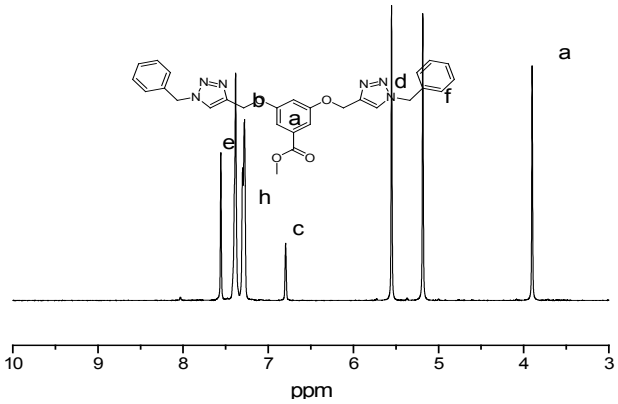

Fig. S11 ^{1}H NMR spectrum of Methyl 3,5-bis((1-benzyl-*1H*-1,2,3-triazol-4-yl) methoxy) benzoate

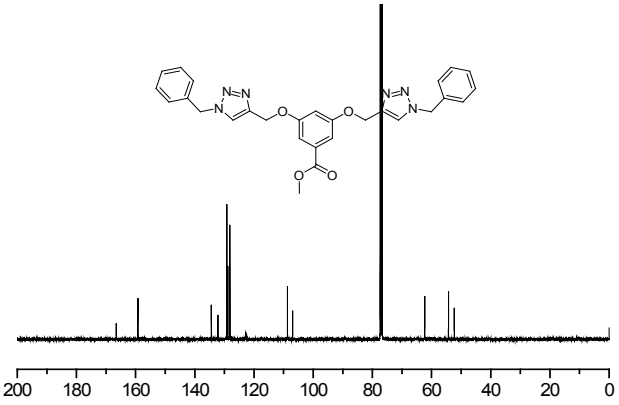

Fig. S12 ^{13}C NMR spectrum of Methyl 3,5-bis((1-benzyl-*1H*-1,2,3-triazol-4-yl) methoxy) benzoate

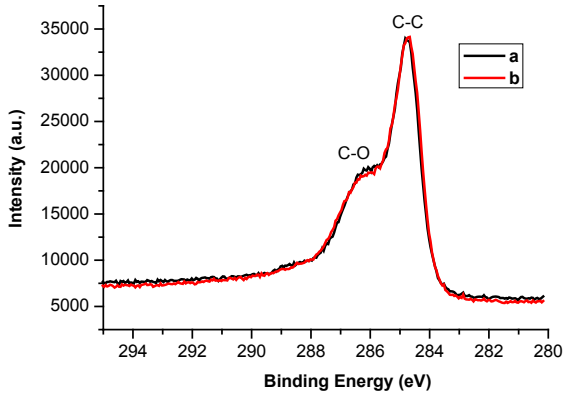

Fig. S13 XPS C1s spectra of GO/Fe_3O_4-CuBr (a) and GO/Fe_3O_4-CuBr after 6 recycling (b)

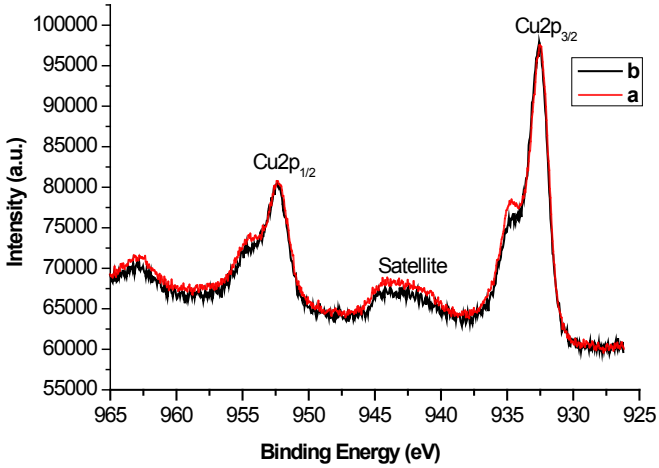

Fig. S14 XPS Cu2p spectrum of GO/Fe_3O_4-CuBr (a) and GO/Fe_3O_4-CuBr after 6 recycling (b)

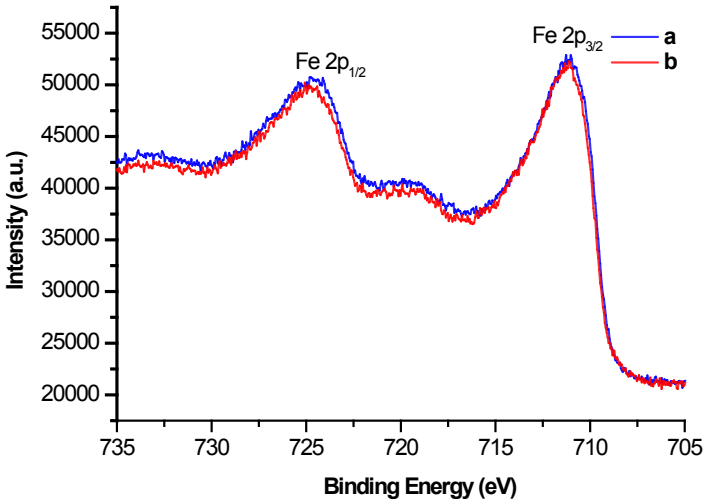

Fig. S15 XPS Fe2p spectrum of GO/Fe_3O_4-CuBr (a) and GO/Fe_3O_4-CuBr after 6 recycling (b)