Nickel and Cobalt nanoparticles modified hollow mesoporous carbon microspheres catalysts for efficiently catalytic reduction of widely used dyes

Meng Tian, Chunxu Dong, Xueliang Cui, Zhengping Dong*

College of Chemistry and Chemical Engineering, Gansu Provincial Engineering Laboratory for Chemical Catalysis, Zhongwei High Technology Research Institute, Lanzhou University, Lanzhou 730000, PR China.

E-mail: dongzhp@lzu.edu.cn; Fax: +86 0931 8912582; Tel: +86 0931 8912577.
Fig. S1. The EDS spectra of the Ni/h-MCM and Co/h-MCM nanocatalysts.
Fig. S2. Successive UV-vis spectra for the reduction of MB (a), MO (b) and RhB (c) by NaBH₄ with Co/h-MCM nanocatalyst. (d) Kinetic curve for the reduction of MB, MO and RhB catalyzed by Co/h-MCM nanocatalyst.
**Fig. S3.** The TEM images of the reused Ni/h-MCM (a) and Co/h-MCM (b) nanocatalysts.