Supporting Information

Highly stable ruthenium nanoparticles on 3D mesoporous carbon: An excellent opportunity for the reduction reactions⁺

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Fig. S1. The successive UV-visible spectra of the reduction of CV catalyzed with (a) absence of catalyst and (b) excess of $NaBH_4$ (0.04 M; 3.0 mL).



Fig. S2. The successive UV/Vis spectra for the reduction of *p*-NA to *p*-PDA by 0.04 M of NaBH₄ (1.5 mL) in the presence of Ru/CPM-1 catalyst (a) 2 mg (b) 3 mg and (c) 3 mg excess NaBH₄ solution and (a₁, b₁ and c₁) plot of $ln(A_t/A_0)$ vs. time (s).



Fig. S3. The successive UV/Vis spectra for the reduction of CV to LCV by 0.04 M of NaBH₄ (1.5 mL) in the presence of Ru/CPM-1 catalyst (a) 2 mg, (b) 3 mg and (c) 3 mg excess NaBH₄ solution and (a₁, b₁ and c₁) plot of $ln(A_t/A_0)$ vs. time (s).