

Supplementary Information

Imidzaolium ionic liquid-modified fibrous silica microspheres loaded with gold nanoparticles and their enhanced catalytic activity and reusability for the reduction of 4-nitrophenol

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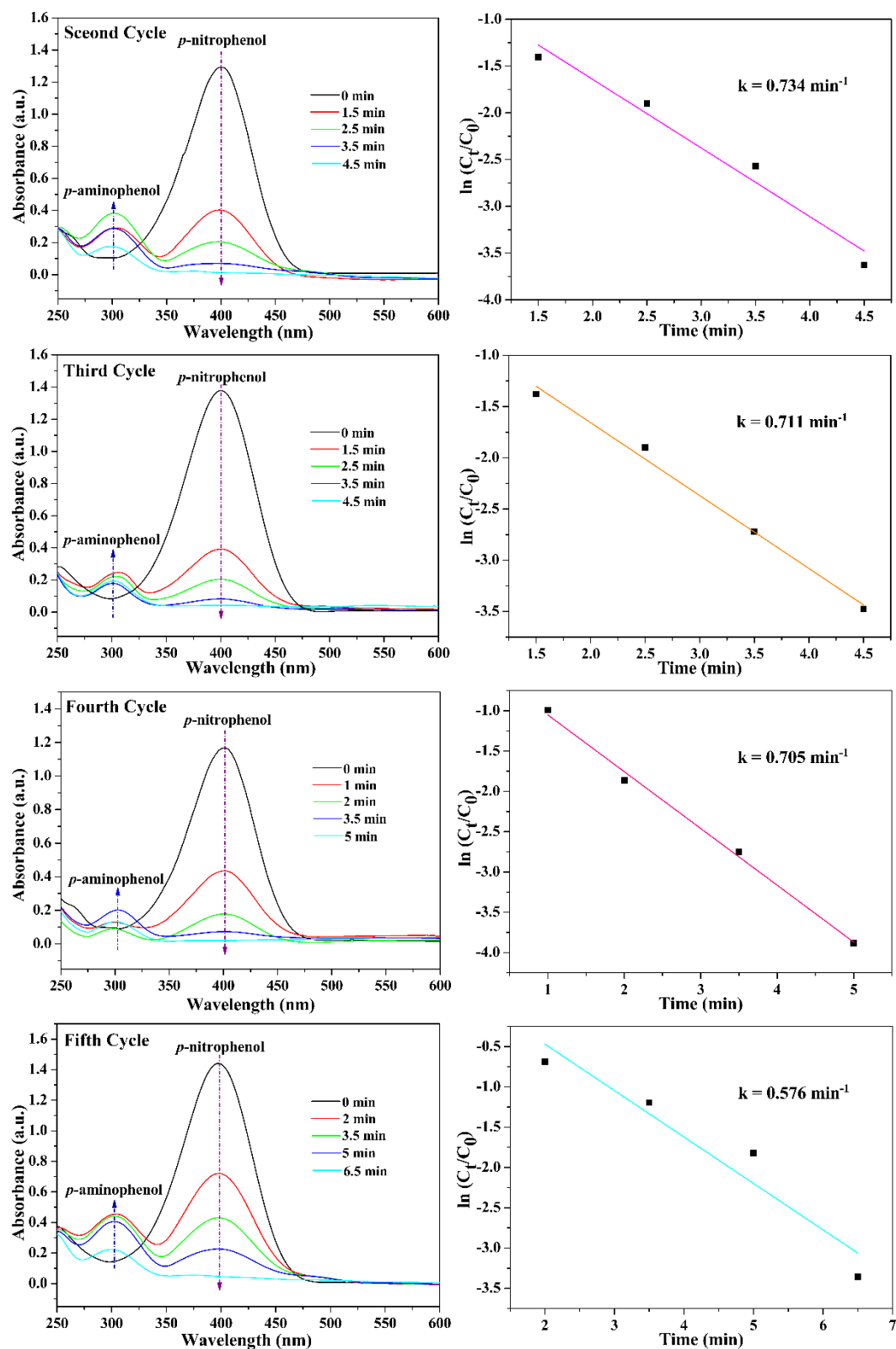


Fig. S1 Successive UV-vis spectra and kinetic curves for the reduction of 4-NP by NaBH_4 in the recycling experiments of the catalyst KCC-1-IL/Au (C_t and C_0 are 4-NP concentrations at time t and 0, respectively).

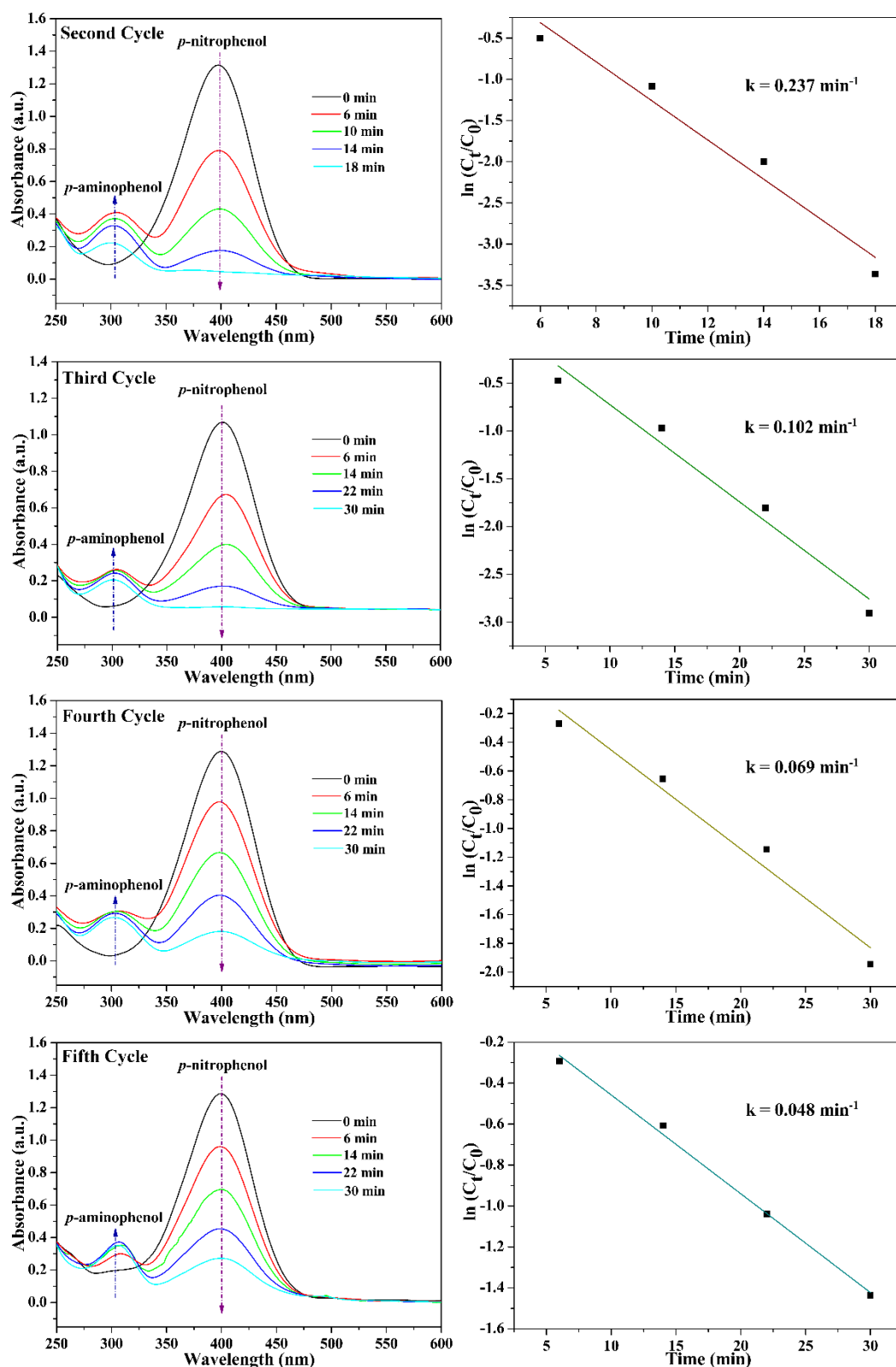


Fig. S2 Successive UV-vis spectra and kinetic curves for the reduction of 4-NP by NaBH_4 in the recycling experiments of the catalyst KCC-1/Au (C_t and C_0 are 4-NP concentrations at time t and 0, respectively).

Table S1 The kinetic rate constant k for the reduction of 4-NP by NaBH_4 in the recycling experiments of the catalysts KCC-1-IL/Au and KCC-1/Au

catalyst	cycle	k (min^{-1})
KCC-1-IL/Au	1	0.718
	2	0.734
	3	0.711
	4	0.705
	5	0.576
KCC-1/Au	1	0.365
	2	0.237
	3	0.102
	4	0.069
	5	0.048