

Supplementary Material

High-performance catalytic reduction of 4-nitrophenol to 4-aminophenol over Pt nanoparticles supported on Co-Al LDH nanosheets

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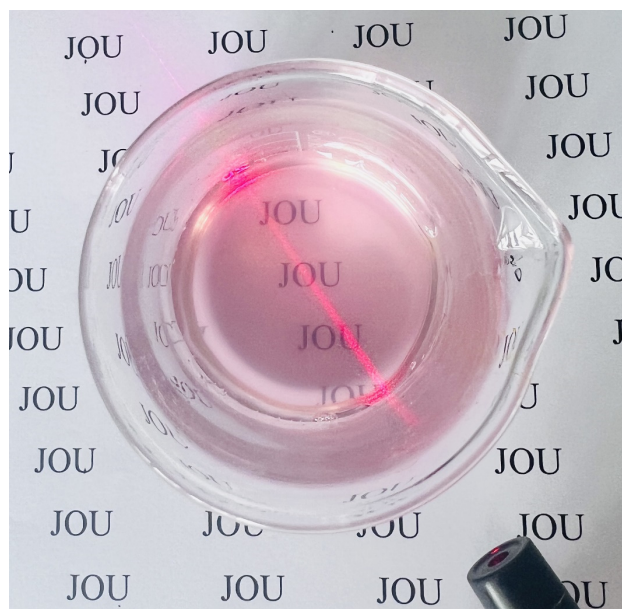


Fig. S1. Tyndall phenomenon of LDH nanosheets colloidal dispersion.

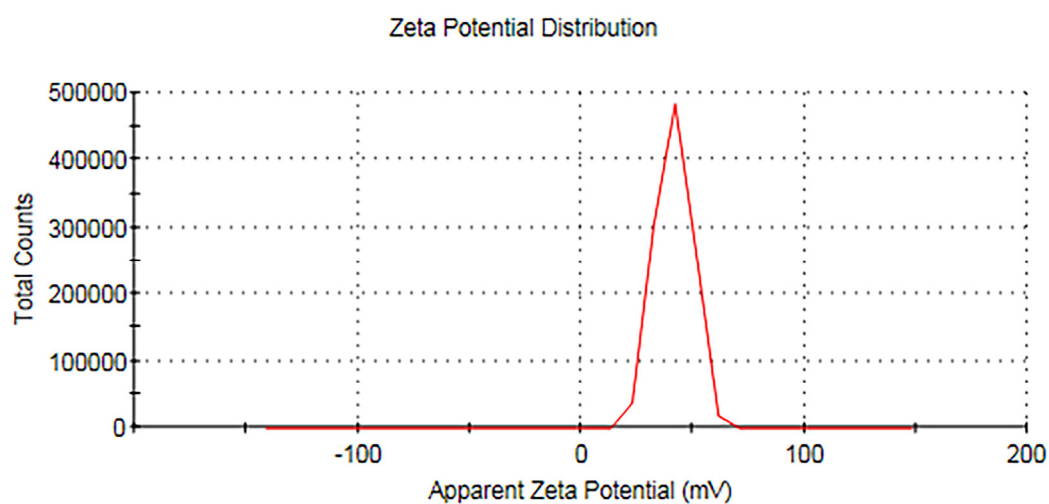


Fig. S2. Zeta potential of Co-Al LDH nanosheets.

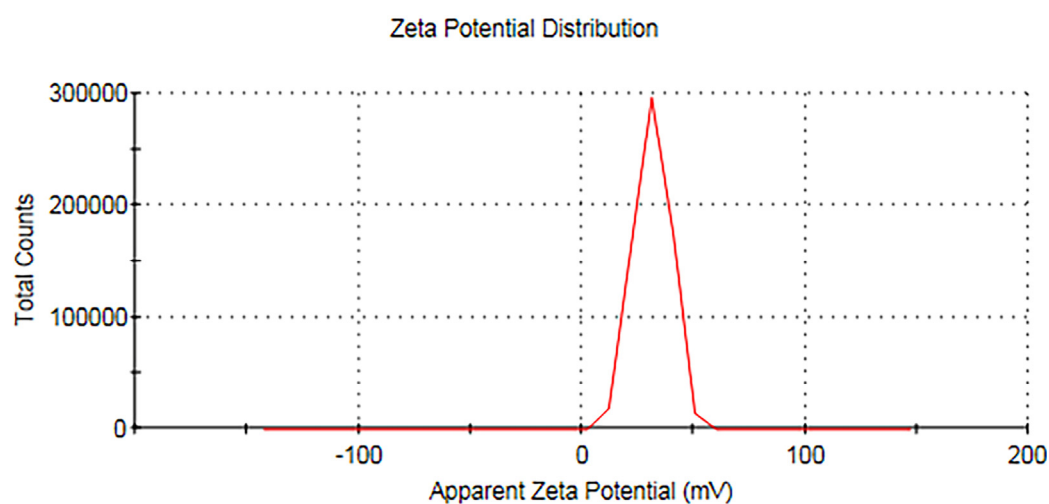


Fig. S3. Zeta potential of PtCl₆²⁻@Co-Al LDH nanosheets.

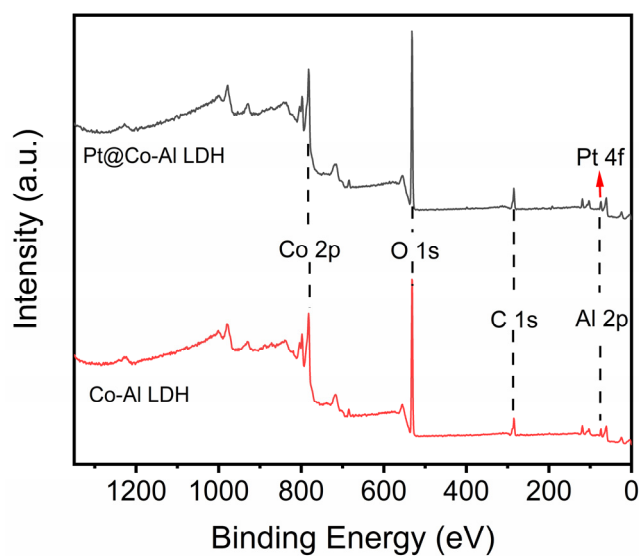


Fig. S4. XPS survey spectra of Co-Al LDH and Pt@Co-Al LDH.

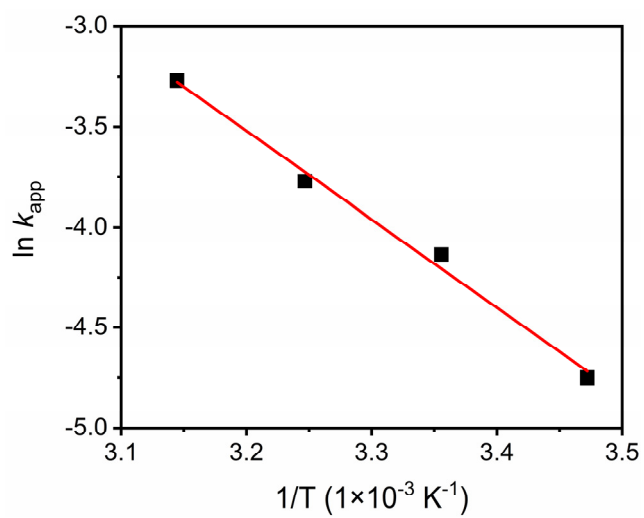


Fig. S5. Arrhenius plot for catalytic reduction of 4-NP in the presence of Pt@Co-Al LDH.

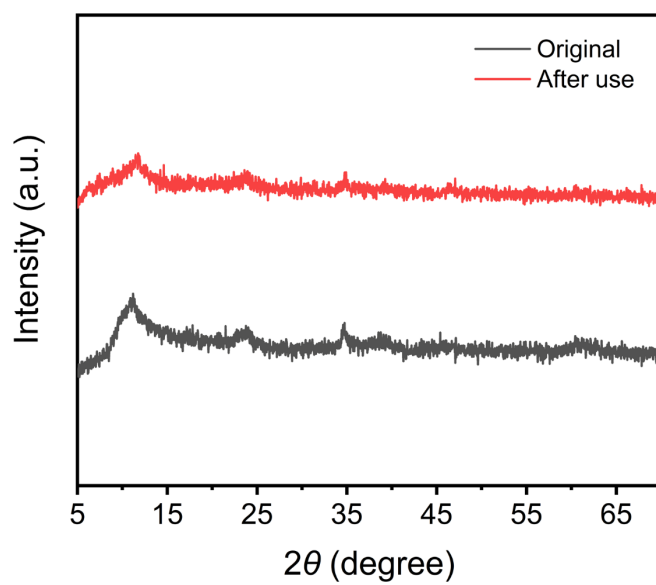


Fig. S6. XRD patterns of the original and recycled Pt@Co-Al LDH catalyst.

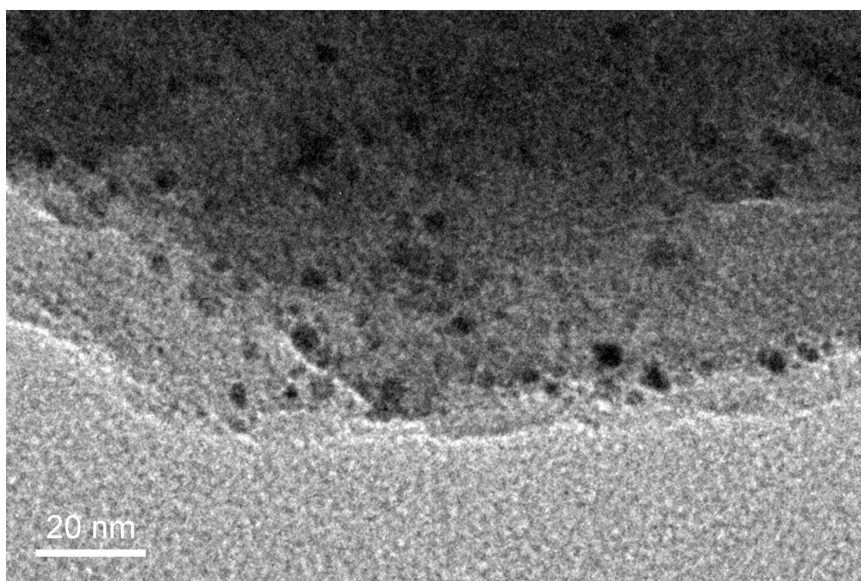


Fig. S7. HRTEM image of the recycled Pt@Co-Al LDH.

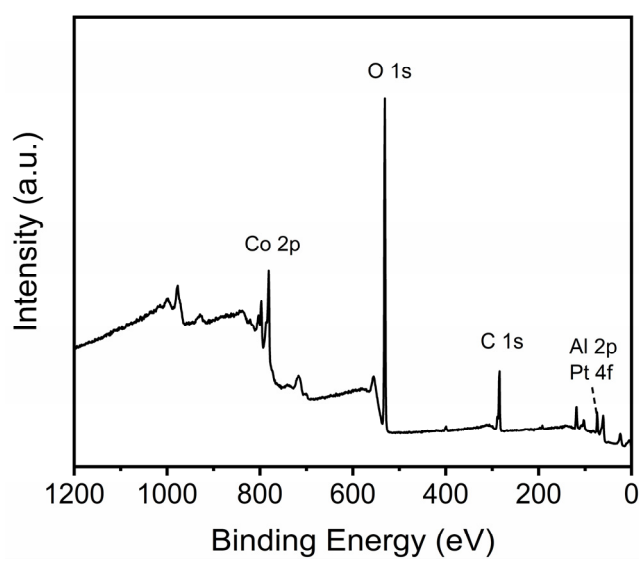


Fig. S8. XPS survey spectrum of the recycled Pt@Co-Al LDH.

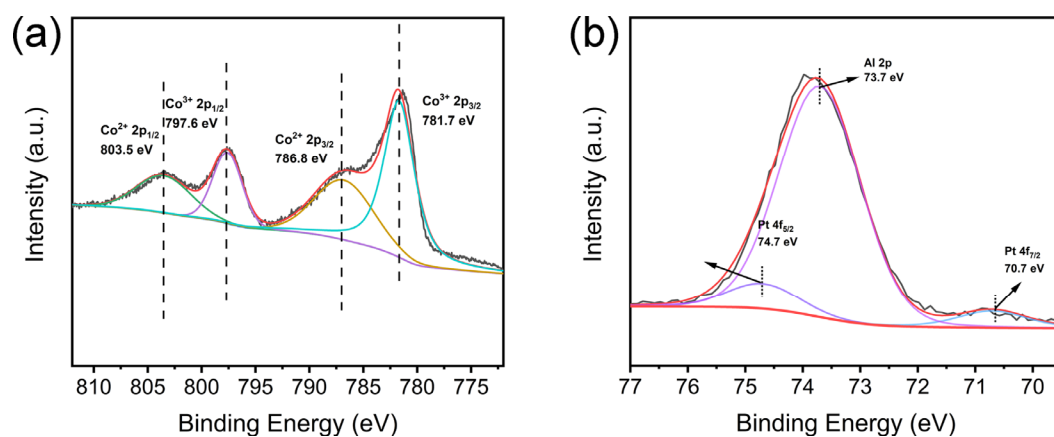


Fig. S9. The high-resolution XPS spectra of (a) Co 2p, (b) Al 2p and Pt 4f for the recycled Pt@Co-Al LDH.