

Supplementary Material

A novel electrochemical sensor for simultaneous determination of 2,4-dichlorophenol and 3-chlorophenol

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Fig. S5 (a) CVs of 10 μM 2,4-DCP and 10 μM 3-CP on CeNiCu-LDH@CC with different pH; Diagram of pH and oxidation peak (b) current (c) potential

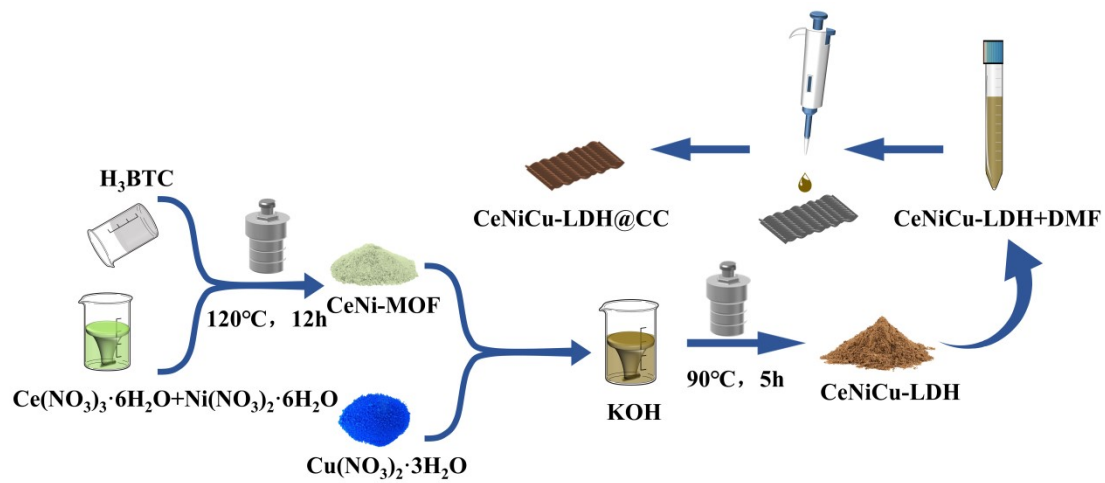


Fig. S1 Scheme for the preparation of CeNiCu-LDH@CC

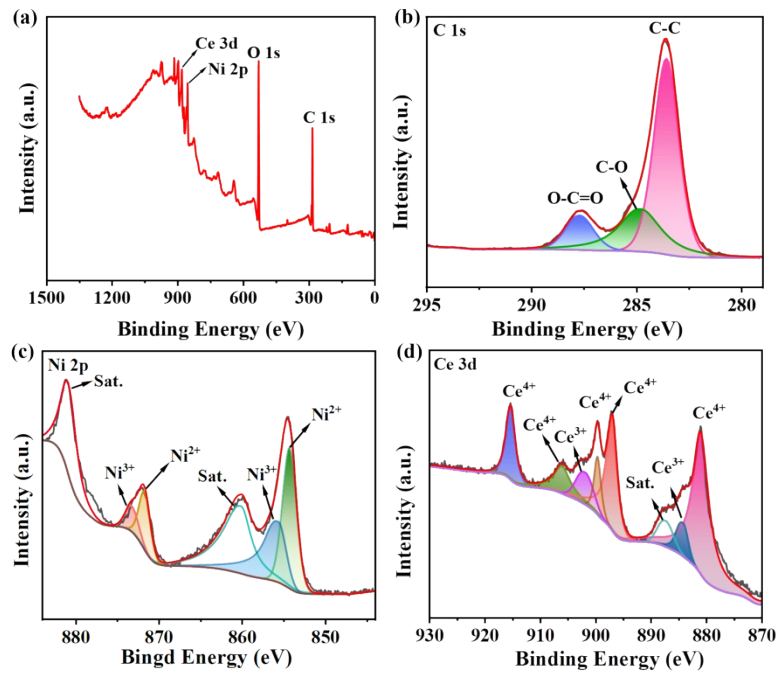


Fig. S2. XPS survey spectrum of CeNi-LDH (a), and C 1s (b), Ni 2p (c), Ce 3d (d)

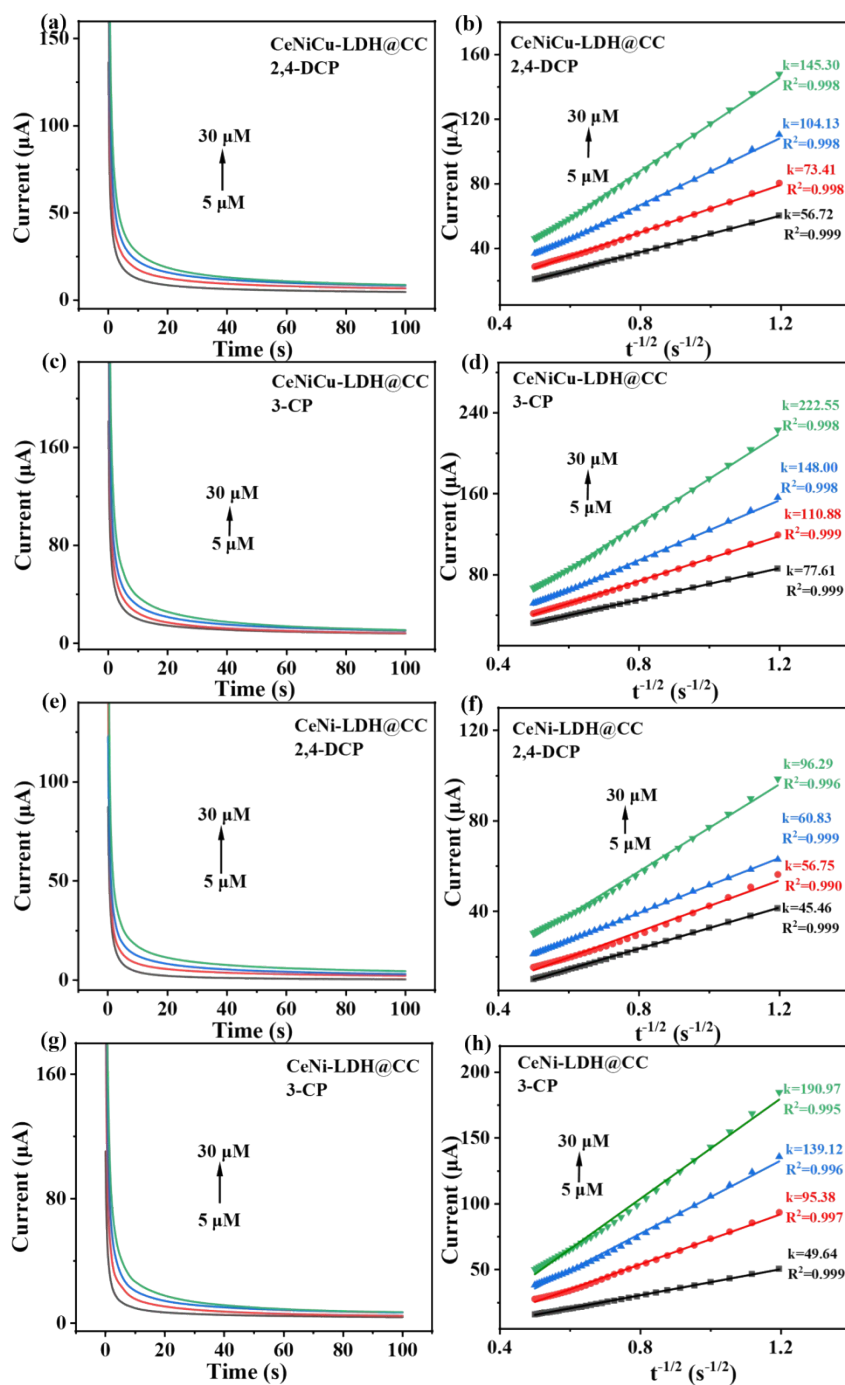


Fig. S3. (a-d) I-t curves and their calculated 2,4-DCP and 3-CP diffusion coefficients onto the CeNiCu-LDH@CC ; (e-h) I-t curves and their calculated 2,4-DCP and 3-CP diffusion coefficients onto the CeNi-LDH@CC

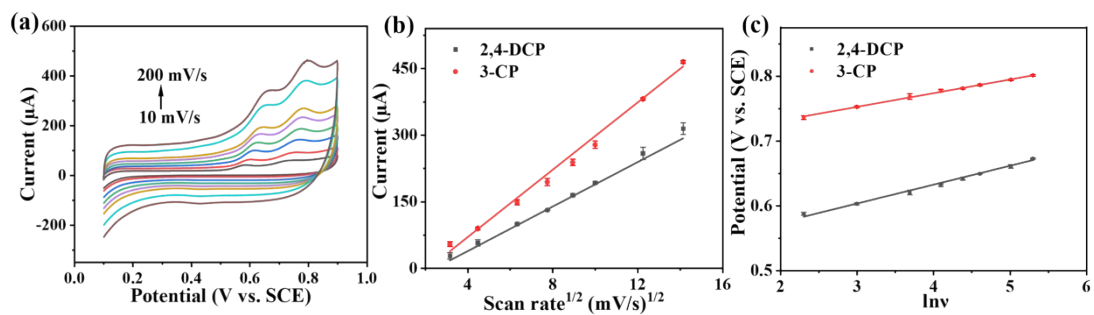


Fig. S4. (a) CVs of 2,4-DCP and 3-CP on CeNiCu-LDH@CC with different scan rate (10~200 mV/s); (b) Plots of oxidation peak currents versus $v^{1/2}$; (c) Oxidation peak potential versus $\ln v$

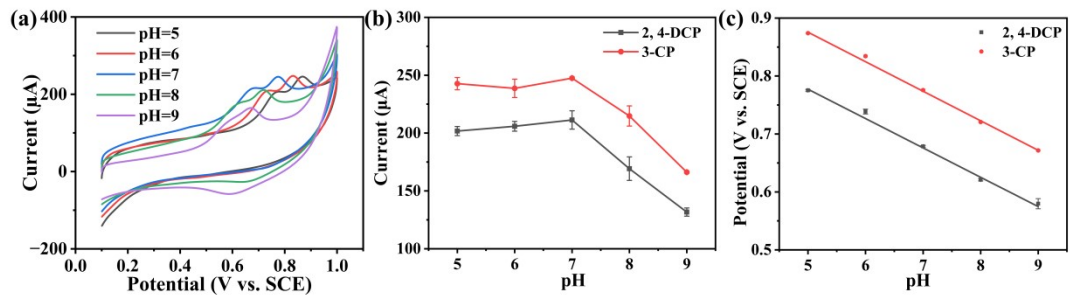


Fig. S5. (a) CVs of 10 μM 2,4-DCP and 10 μM 3-CP on CeNiCu-LDH@CC with different pH; Diagram of pH and oxidation peak (b) current (c) potential