

Supporting Information

Hydrogen uptaking and NO_x adsorption on bifunctional heterogeneous Pd/Mn/Ni for a
low energy path toward SCR

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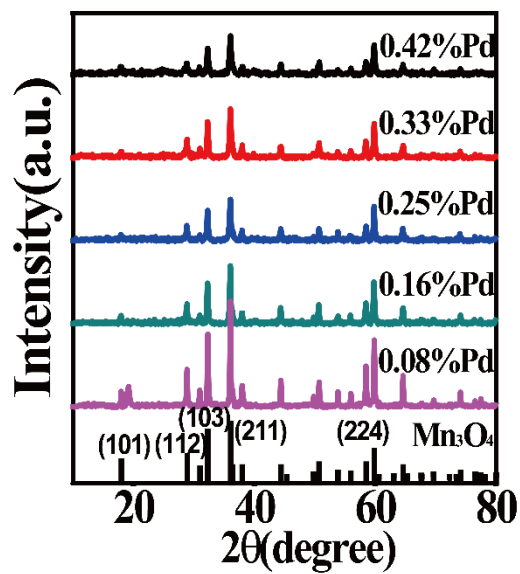


Figure. S1 SEM images of PdO_x-Mn₃O₄@nickel foam

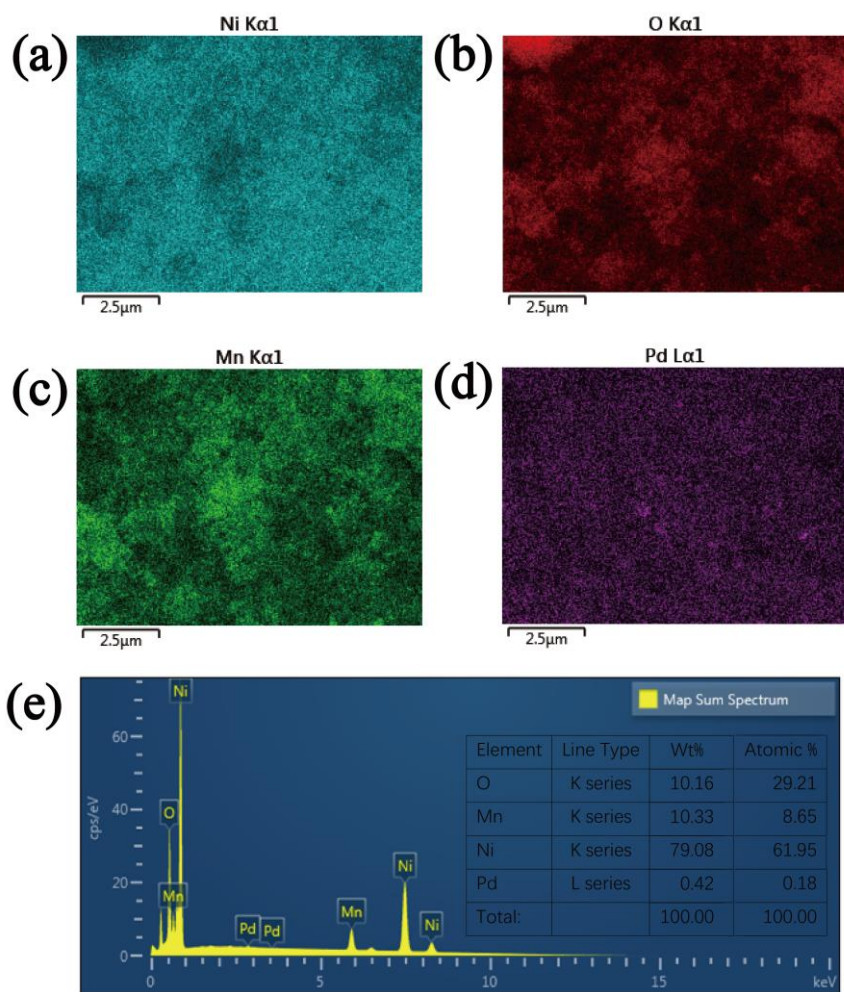


Figure. S2 (a) to (e) EDS mapping of PdO_x-Mn₃O₄@nickel foam

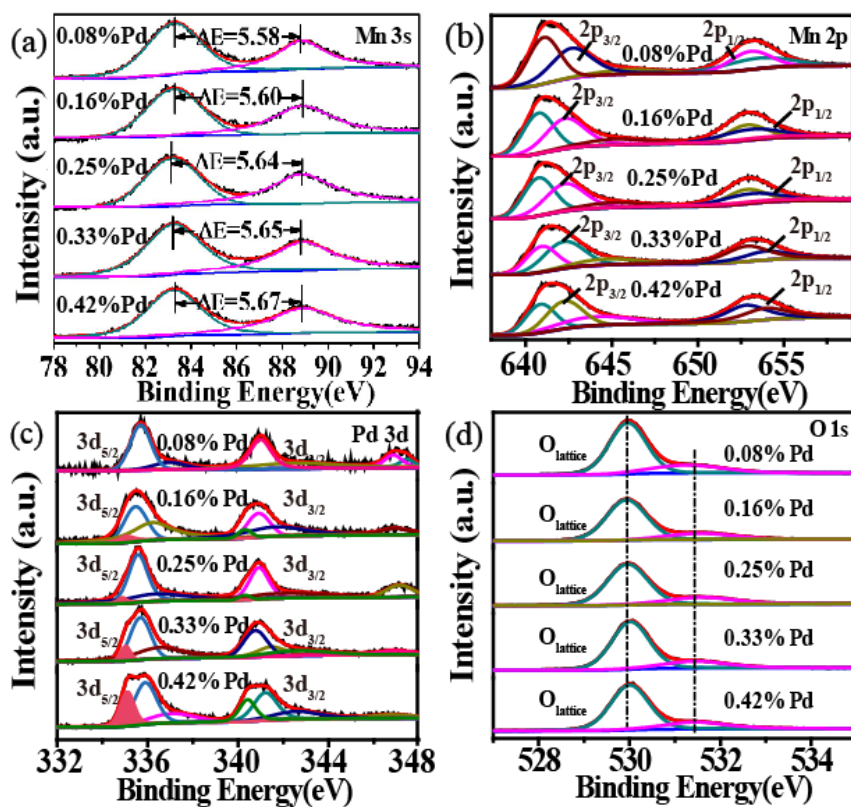


Figure. S3 XPS patterns of (a) Mn-3s spectra of the PdO_x-Mn₃O₄ catalyst; (b) Mn-2p spectra of the PdO_x-Mn₃O₄@nickel foam catalyst; (c) Pd-3d spectra of the PdO_x-Mn₃O₄@nickel foam catalyst; (d) O-1s spectra of the PdO_x-Mn₃O₄@nickel foam catalyst.

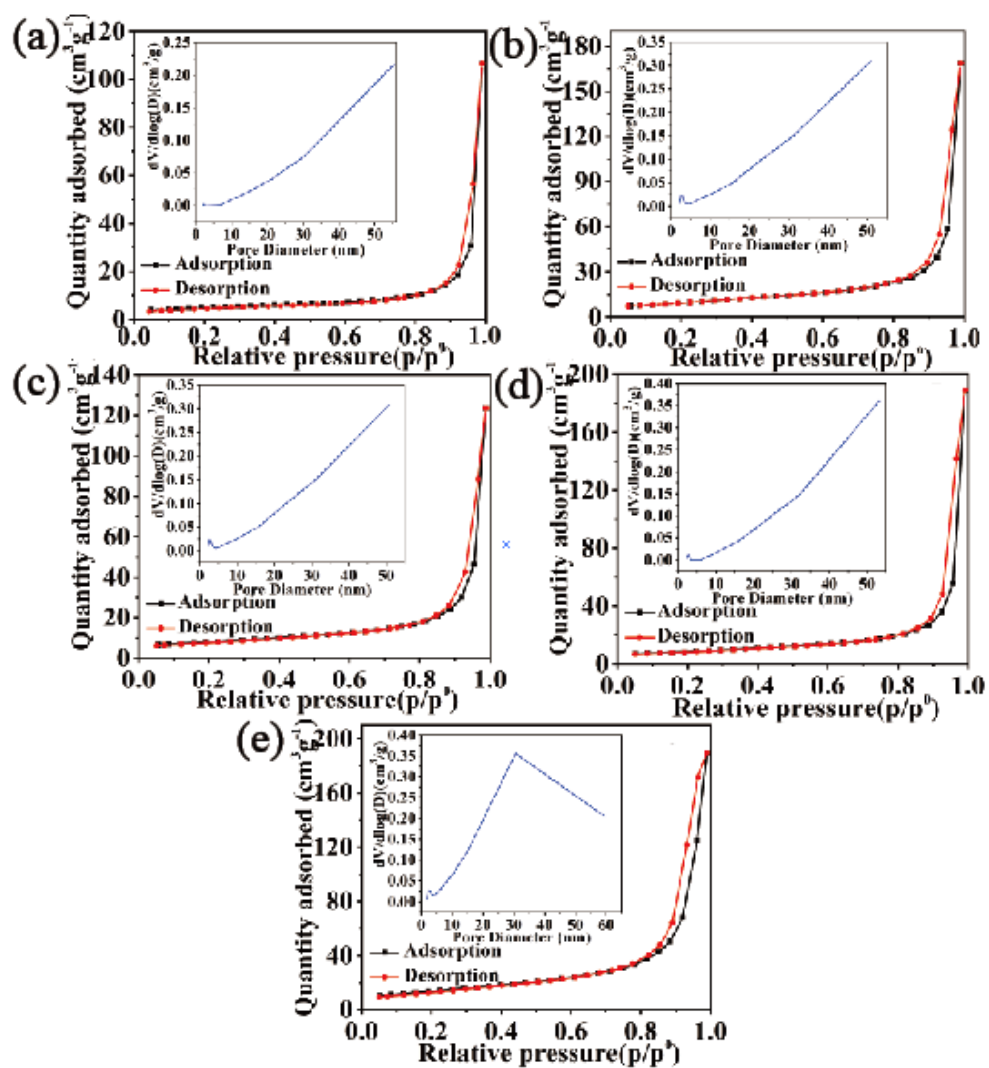


Figure. S4 (a) to (e) BET images of PdO_x-Mn₃O₄@nickel foam