

Electronic Supplementary Information

Porous Pt-NiO_x Nanostructure with Ultrasmall Building Blocks and Enhanced Electrocatalytic Activity for Ethanol Oxidation Reaction

Bangquan Li,^{a, b} Hongsheng Fan,^a Ming Cheng,^a Yuanjun Song,^c Fangtao Li,^c Xiaodan Wang,^c and Rongming Wang*^c

^aDepartment of Physics, Beihang University, Beijing 100191, China

^bInstitute of Solid State Physics, Shanxi Datong University, Datong 037009, China

^cBeijing Key Laboratory for Magneto-Photoelectrical Composite and Interface Science, School of Mathematics and Physics, University of Science and Technology Beijing, Beijing 100083, China

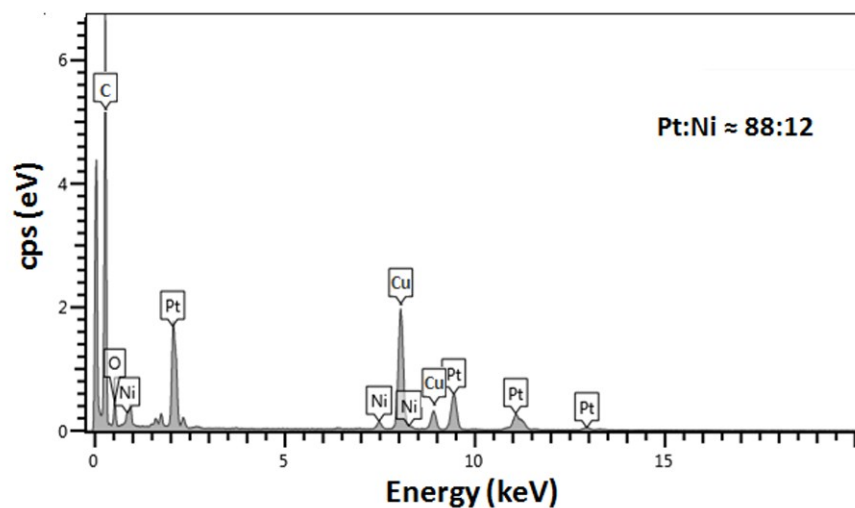


Fig. S1 EDS spectrum of Pt-NiO_x/C.

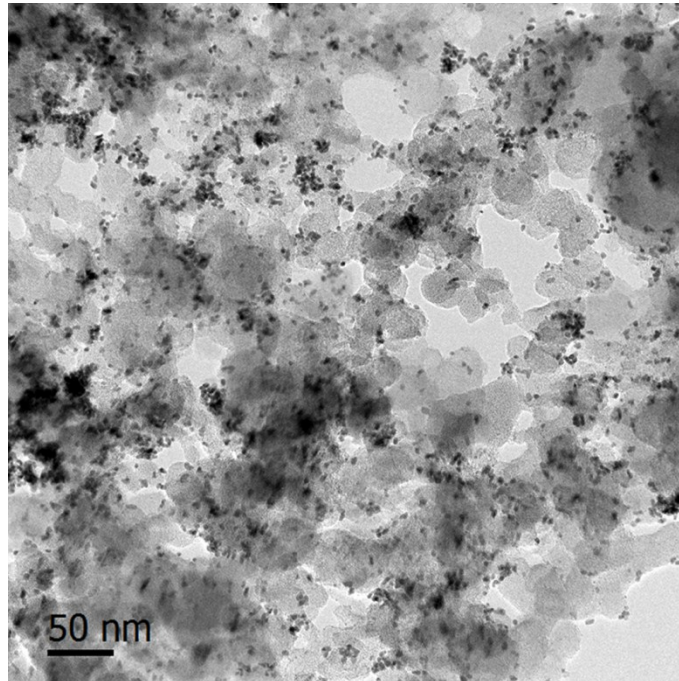


Fig. S2 A representative TEM image of the home-made Pt/C structure.

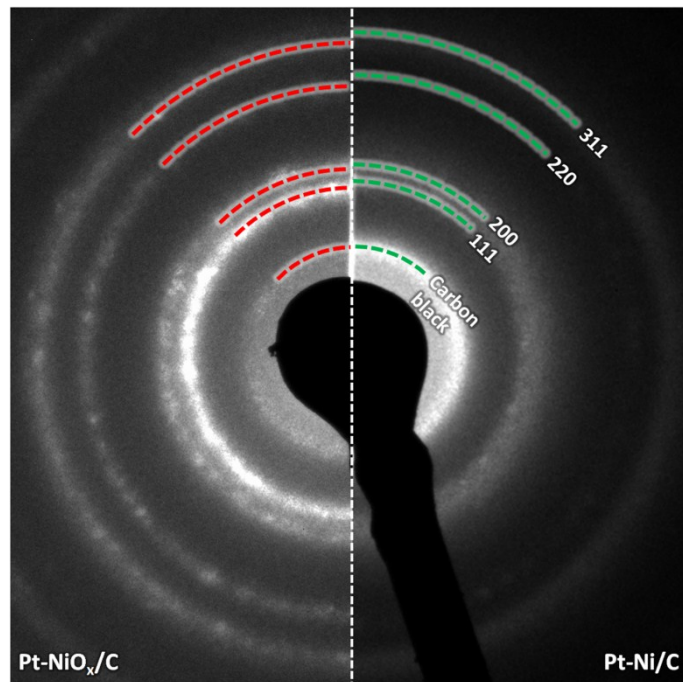


Fig. S3 A comparison of SAED patterns of Pt-NiO_x/C and Pt-Ni/C. The dashed lines show the diffraction rings of carbon black and fcc crystalline structures.

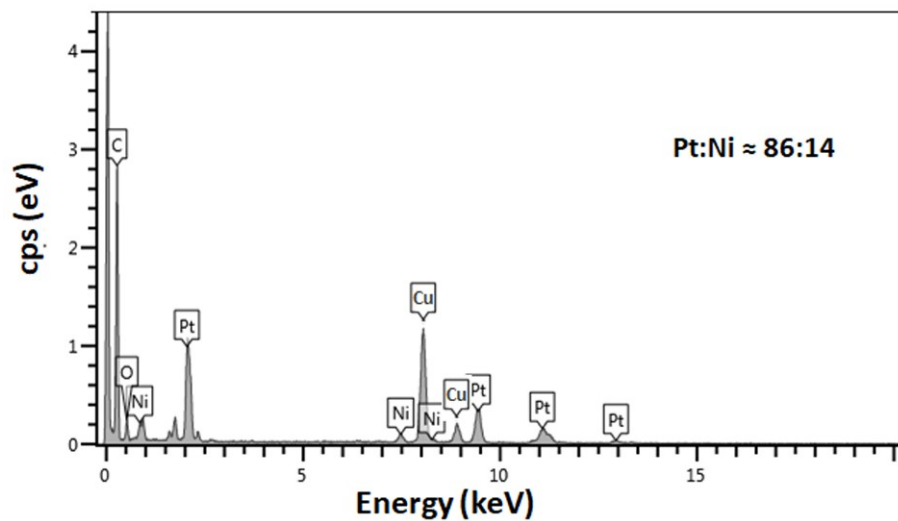


Fig. S4 EDS spectrum of Pt-Ni/C.

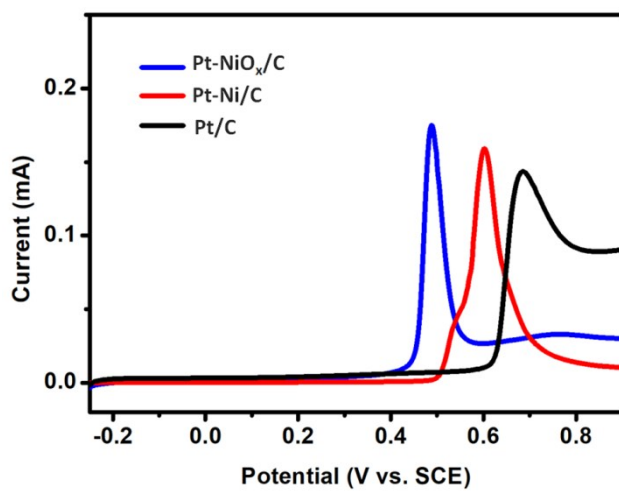


Fig. S5 CO-stripping profiles of Pt-NiO_x/C, Pt-Ni/C and Pt/C catalysts at 20 mV·s⁻¹ in an aqueous solution of 0.5 M H₂SO₄.