Supporting Information

Systematic combination of palladium facets and monolayer metal hydroxide nanosheets for promotion of ethanol oxidation reaction

Sho Kitano, Hiroya Motohashi, Mana Iwai, Damian Kowalski, Koji Fushimi, Yoshitaka Aoki, Hiroki Habazaki**

*Sho Kitano: Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

Hiroya Motohashi: Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

Mana Iwai: Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

Damian Kowalski: Biological and Chemical Research Centre (CNBCh), Faculty of Chemistry, University of Warsaw, ul. Żwirki i Wigury 101, 02-089, Warsaw, Poland

Koji Fushimi: Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

Yoshitaka Aoki: Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

*Hiroki Habazaki: Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Hokkaido 060-8628, Japan

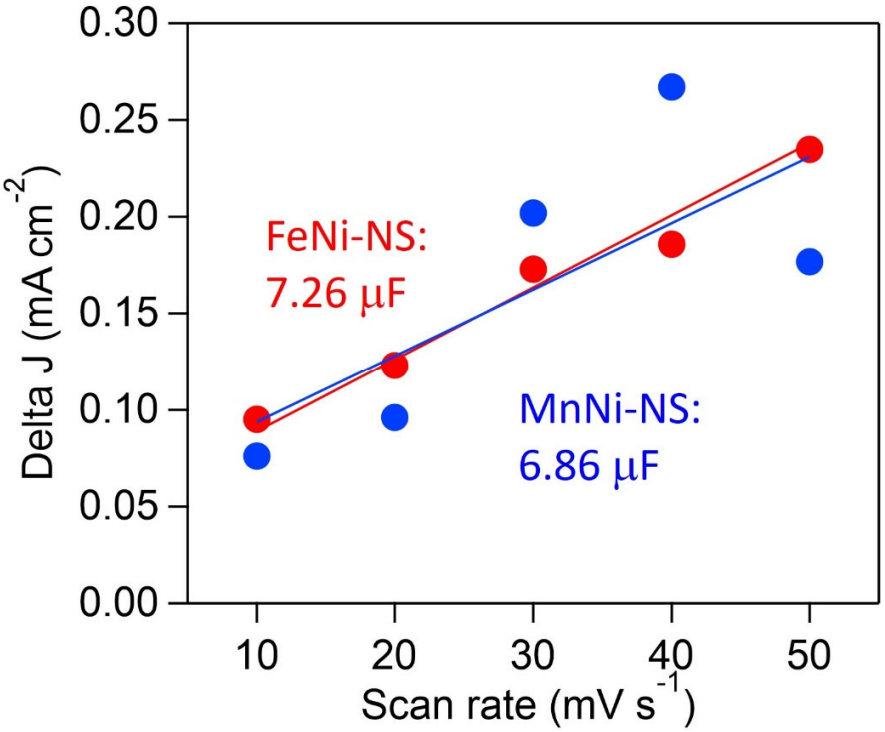

Figure S1 Double layer capacitance of the exfoliated nanosheets.

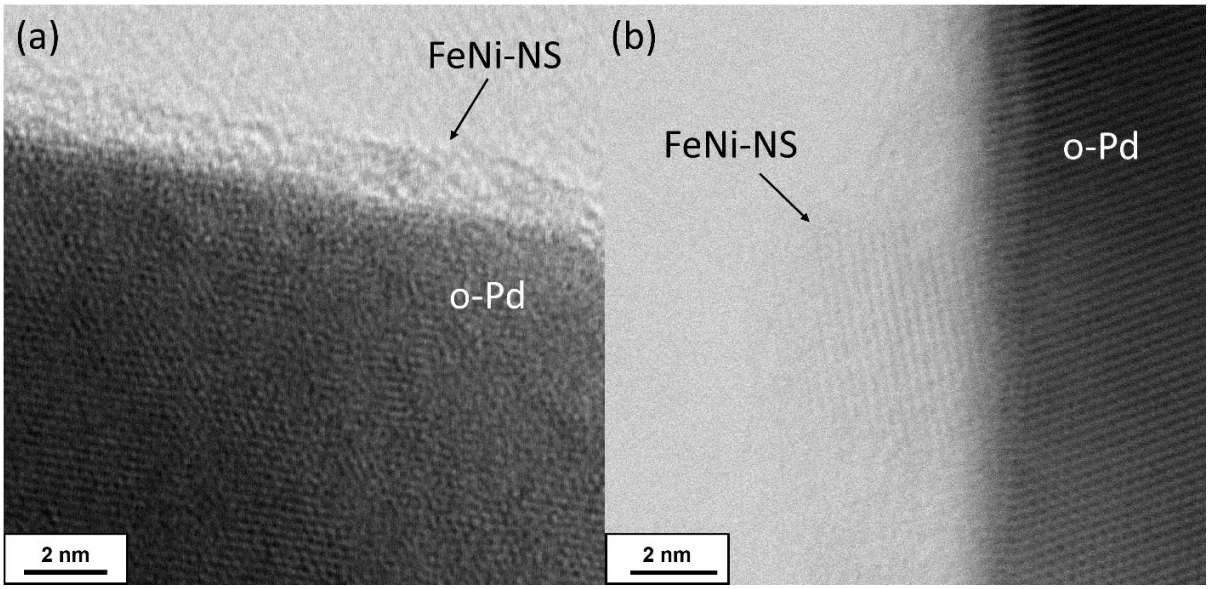

Figure S2 TEM images of FeNi-NS modified in (a) lateral and (b) vertical orientation on the o-Pd