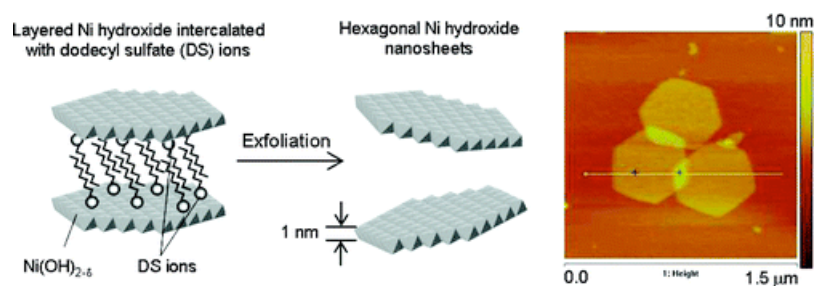


Synthesis of Hexagonal Nickel Hydroxide Nanosheets by Exfoliation of Layered Nickel Hydroxide Intercalated with Dodecyl Sulfate Ions

大学院自然科学研究科	助教	伊田進太郎
〃	前期課程	志賀大祐
〃	講師	鯉沼陸央
〃	教授	松本泰道

Abstract:

One-nanometer-thick nickel hydroxide nanosheets were prepared by exfoliation of layered nickel hydroxides intercalated with dodecyl sulfate (DS) ions. The shape of the nanosheets was hexagonal, as was that of the layered nickel hydroxides intercalated with DS ions. The nickel hydroxide nanosheets exhibited charge-discharge properties in strong alkaline electrolyte. The morphology of the nanosheet changed during the electrochemical reaction.



(Journal of American Chemical Society, Vol. 130, No. 43, p. 14038-14039, 2008)