

### 39-7 剥離されたGa-Ni及びFe-Ni層状複水酸化物の交互積層膜

(Layer-by-Layer assembly of exfoliated Ga-Ni and Fe-Ni layered double hydroxides)

大学院自然科学研究科 博士研究員 ウグー・ウナー

〃 前期課程 オズゲ・アルツンタソグル

〃 助手 伊田進太郎

〃 教授 松本泰道

Layered double hydroxides (LDH) have a general formula of  $[M_{1-x}^{2+}M_x^{3+}(\text{OH})_2][A_n^{x/n} \cdot m\text{H}_2\text{O}]$  with positively charged brucite-like layers. As the nanosize two dimensional oxide units are getting important in terms of nanofilm fabrication and high functionality, there have been many reports on the nanosheet fabrication, especially of negatively charged metal-oxide nanosheets, i.e.  $\text{TiO}_6$  or  $\text{NbO}_6$ . However, there are a few amounts of reports on the exfoliation of LDHs and most of them are about Mg-Al LDHs [1]. In this study, we have attempted to exfoliate Fe-Ni and Ga-Ni LDHs and investigated their electrochemical properties of thin films intercalated with various anionic species.

(2006年電気化学会第73回大会講演要旨集, p. 316, 2006.4)