

Mg-Ga LDH の水熱合成と評価

(Hydrothermal Synthesis and Properties of Magnesium-Gallium Layered Double Hydroxides)

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LDHs are hydrotalcite like compounds having the general formula

$[M^{2+}_{1-x}M^{3+}_x(OH)_2]^{q+} [A^{n-}_{x/n}_mH_2O]$. LDHs have positively charged layers that have to be neutralized by intercalated anions. In this study hydrothermal synthesis of magnesium-gallium LDHs, as well as their anion exchange behavior and exfoliation were investigated. The phase structures and morphologies of the LDHs were studied in several temperatures and period of synthesis time. Electrochemical properties of intercalated LDHs in aqueous solution were also investigated.

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