

Intercalation of Bulk Guest into LDH via Osmotic Swelling/Restoration Reaction: Control of the Arrangements of Thiocalix[4]arene Anion Intercalates

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Water-soluble tetrasodium *p*-sulfonatothiocalix[4]arene (TCAS) was intercalated into MgAl-LDH using an osmotic swelling/restoration reaction of the LDH in formamide. The restoration process was investigated in detail. The arrangement of TCAS in the interlayer can be controlled through adjusting the area per unit charge (S_{charge}) of TCAS. When S_{charge} (TCAS) < S_{charge} (LDH), monolayer (basal spacing, d_{basal} , 1.30 nm) and alternating “up-down” antiparallel (d_{basal} , 1.54 and 1.45 nm) arrangements were obtained. When S_{charge} of TCAS was increased by forming an Ag⁺ complex, bilayer arrangement (d_{basal} , 2.12 nm) of TCAS(Ag) was formed. This swelling/restoration reaction took place, and the composites retained the morphology of the LDH precursor. The thermal stability of TCAS in the composites was remarkably enhanced, and the “up-down” antiparallel arrangement of TCAS had the highest increase of thermal stability.

Introduction

In the past 20 years, the organic/inorganic nanocomposites are a kind of the most promising materials, exhibiting a variety of unique properties due to the synergies of the inorganic and organic components.¹ Layered double hydroxides (LDHs), with the general formula $[M^{2+}_{1-x}M^{3+}_x](OH)_2[(X^n)_{x/n} \cdot mH_2O]$,² are a family of layered inorganic compounds consisting of stacks of positively charged metal hydroxide layers with anions in the interlayer, having been widely studied due to the characteristic of tunable composition and exchangeable anion in fields of catalysis,³ separation science,^{4,5} storage and triggered release of functional anions,^{6,7} and optical

materials.⁸ For preparing the organic/LDH composite materials, traditional coprecipitation, ion exchange, and calcination-rehydration are the most common methods.^{9–11} Through these methods, macrocyclic compounds such as calixarene,¹² crown ether,¹³ cyclodextrin,¹⁴ and porphyrin¹⁵ were introduced into LDHs.

The delamination/restacking process is another way for synthesizing organic/LDH composites. Many negatively charged layered compounds, such as layered silicate,¹⁶ perovskites,¹⁷ titanium dioxides,¹⁸ manganese oxide,¹⁹

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World Progress) Willis Mason West,1922 *Allyn and Bacon's Series of School Histories* Willis Mason West,1925 *The Story of World Progress* Willis Mason West,1922 World progress in the West **Mother of the Church** Tatyana V. Bakhmetyeva,2017-01-03 Sofia Petrovna Svechina 1782 1857 better known as Madame Sophie Swetchine was the hostess of a famous nineteenth century Parisian salon A Russian migr Svechina moved to France with her husband in 1816 She had recently converted to Roman Catholicism and the salon she opened acquired a distinctly religious character It quickly became one of the most popular salons in Paris and was a meeting place for the French intellectual Catholic elite and members of the Liberal Catholic movement As a salonni re Svechina developed close friendships with some of the most noted public figures in the Liberal Catholic movement Her involvement with her guests went deeper than the typical salonni re s She was a mentor spiritual counselor and intellectual advisor to many distinguished Parisian men and women and her influence extended beyond the walls of her salon into the public world of politics and ideas In this fascinating biography Tatyana Bakhmetyeva seeks to understand the creative process that informed Svechina s life and examines her subject in the context of nineteenth century thought and letters It will appeal to educated readers interested in European and Russian history the history of Catholicism and women s history

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