

The study on anion absorption capability make use of Mg-Al layered double hydroxides materials

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In this work, the preparation of Mg-Al layered double hydroxides (LDHs) were synthesized by the co-precipitation method. Their most common types are Mg-Al LDHs having the hydrotalcite structure. The LDHs were prepared from their nitrate salts by pH controlled precipitation. The hydroxides and the mixed oxides obtained were characterized by X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM), BET and Thermogravimetric analysis (TGA). The base properties of the mixed oxides being strongly dependent upon the LDHs chemical composition. It was found that difference absorption capability of anions according to changed molar ratio of Mg^{2+}/Al^{3+} LDHs.