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# Study on the Mechanism of Surface Modification of Magnesium Oxysulfate Whisker

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## Highlights

1. Physisorbed lauric acid was ruled out by FT-IR spectroscopy.
2. The inexistence of physisorbed magnesium laurate was proved by DSC analyses.
3. <sup>13</sup>C NMR further verified the formation of COO-Mg< bonds on the surface of MOSw.
4. “Acid-base netrulization” was proved by the pH meter monitoring synchronously.
5. The type of surface modification of MOSw was proved to be chemical adsorption only.

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