

11/29/2017

Tasklist:

- Finish up XRD and IR from 10/31/2017

➤ XRD

Figure 1: XRD of NaMT and Various Amino Acids

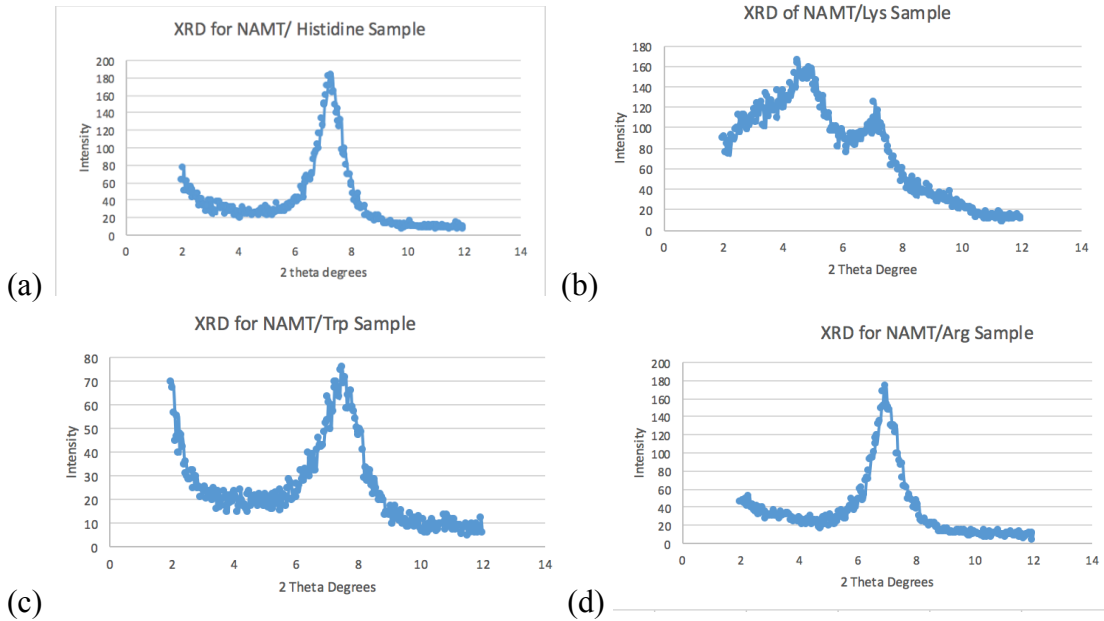


Figure 1 shows the XRD of NaMT and various amino acids. (a) is the NaMT with histidine. There is one peak that reaches an intensity of 180 around 7 degrees 2 theta. (b) is the NaMT with lysine. There are two peaks. The first peak reaches 160 intensity at 4 degrees two theta, and the second peak reaches 120 intensity at 7 degrees two theta. (c) is the NaMT with tryptophan. There is one peak that reaches 80 intensity at 7 degrees two theta. (d) is the NaMT with arginine. There is one peak that reaches 180 intensity at 7 degrees two theta.

Figure 2: XRD of 50 AuTiO₂ Sample

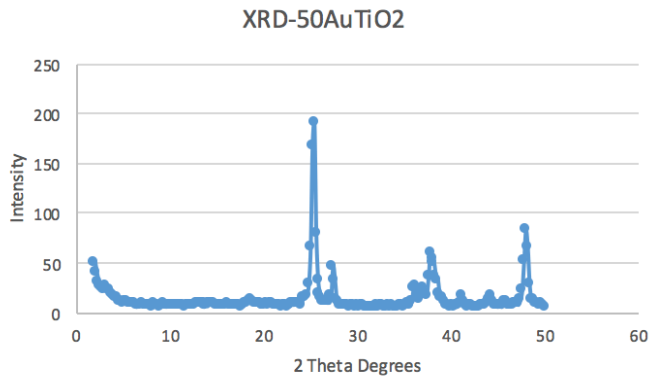


Figure 2 shows the XRD of the 50 AuTiO₂ sample. Several peaks appear on the graph; however, the largest peak reaches an intensity of 200 and is around 25 degrees 2 theta.

➤ IR

Figure 3: IR Spectra of the Clay Samples

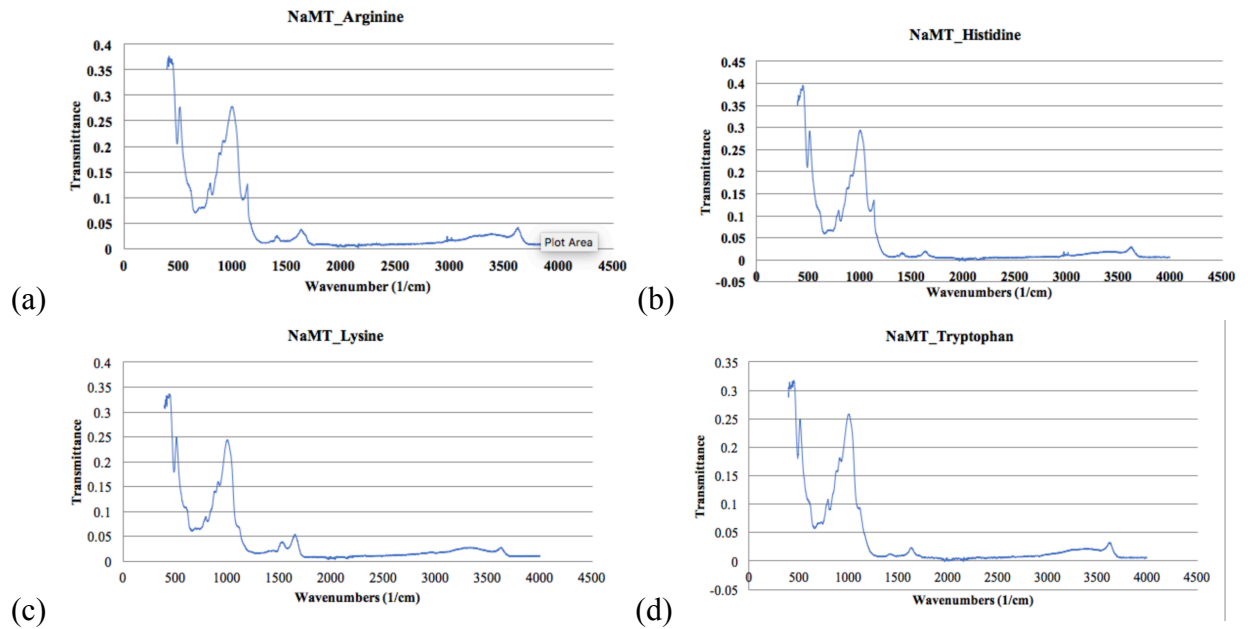


Figure 3 shows the IR spectra for the four clay samples. (a) is the NaMT and Arginine sample. (b) is the NaMT and Histidine sample. (c) is the NaMT and lysine sample. (d) is the NaMT and tryptophan sample.