

Supporting Information

Formation Mechanism of Al_{13} Keggin Cluster in Hydrated Layered Polysilicates

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This file includes: Fig. S1† to S3†

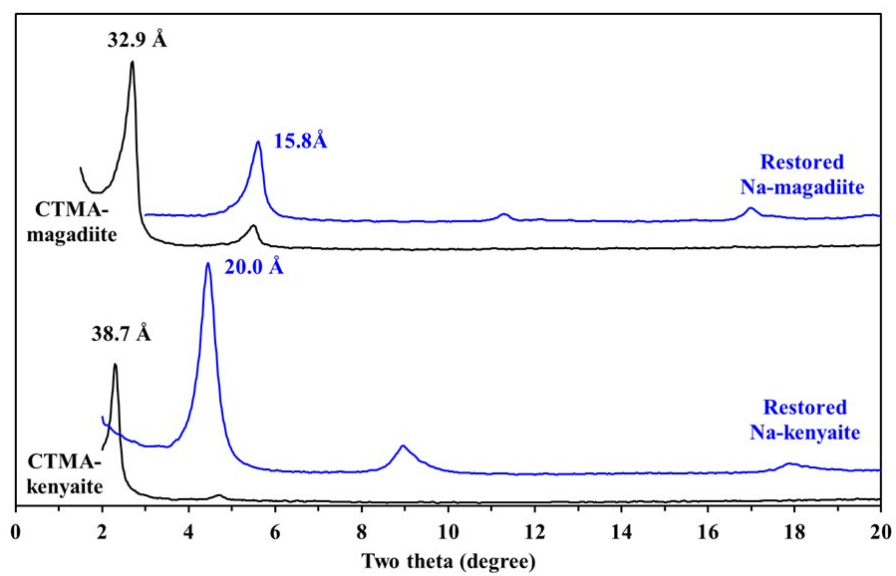


Fig. S1†. XRD patterns of CTMA-treated and Na⁺-restored magadiites and kenyaite.

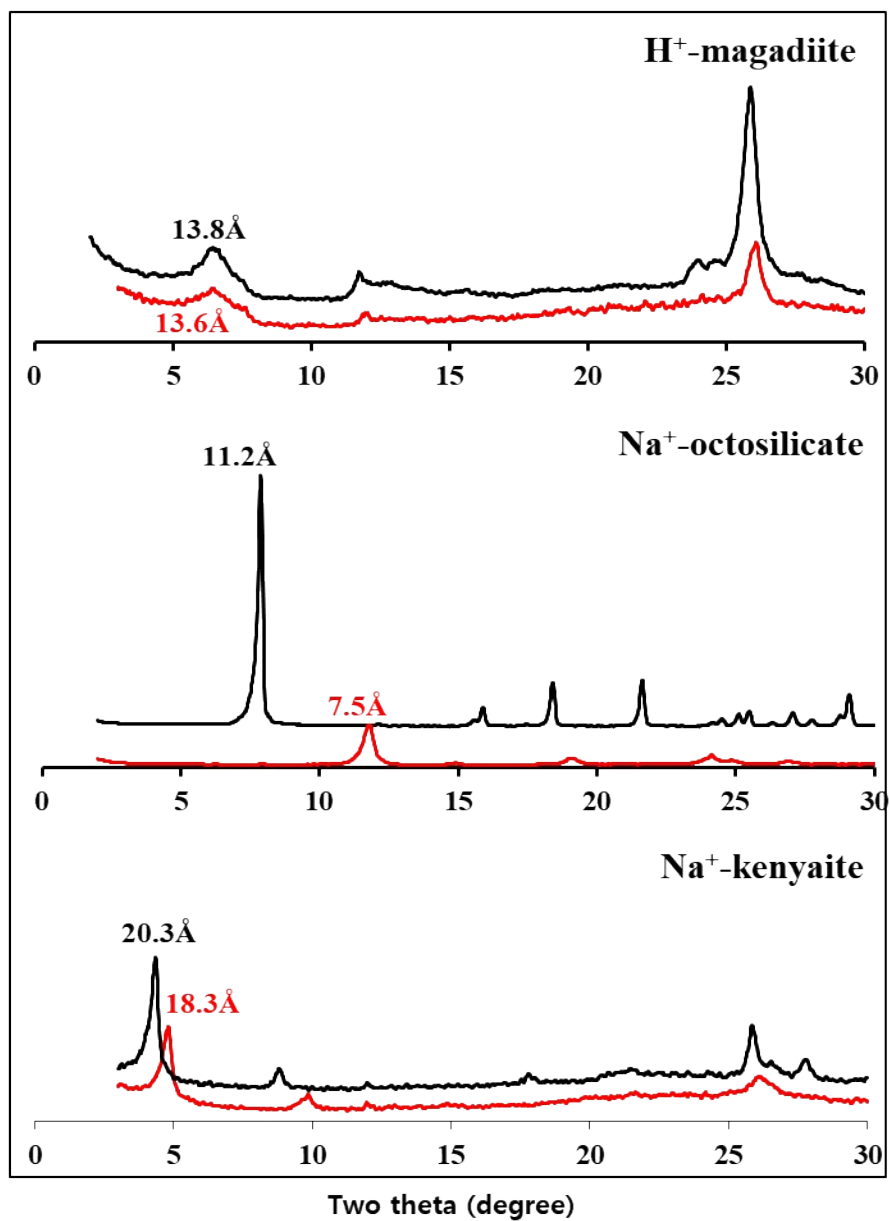


Fig. S2†. XRD patterns of H⁺-magadiite, Na⁺-octosilicate and Na⁺-kenyaite before (black line) and after (red line) Al³⁺ treatment. Na⁺-kenyaite was treated with 0.4 mM Al³⁺ whereas H⁺-magadiite and Na⁺-octosilicate were treated with 0.4 mM Al³⁺.

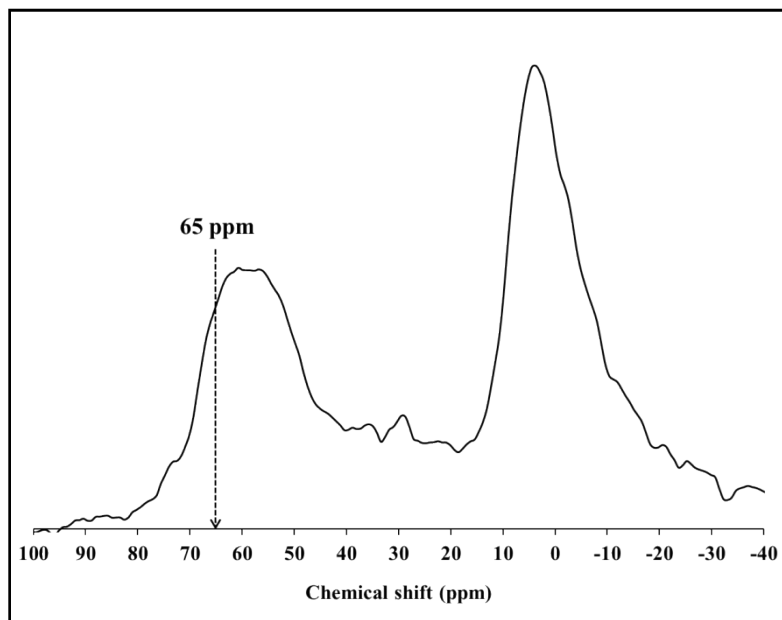


Fig. S3†. ^{27}Al NMR spectrum of Na^+ -kenyaite treated in 1.0 mM Al^{3+} solution.