*Supplementary Materials*

**Fabrication, Mechanical Properties and In-Vitro Behavior of Akermanite Bioceramic**

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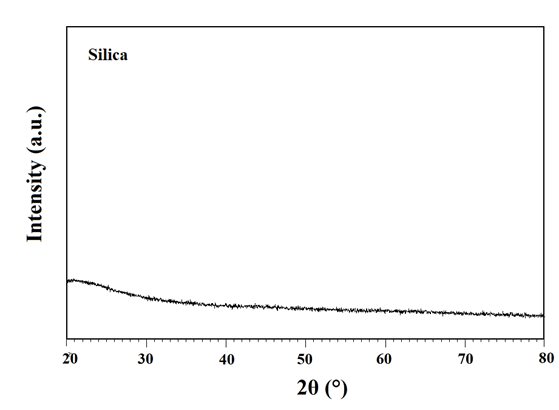
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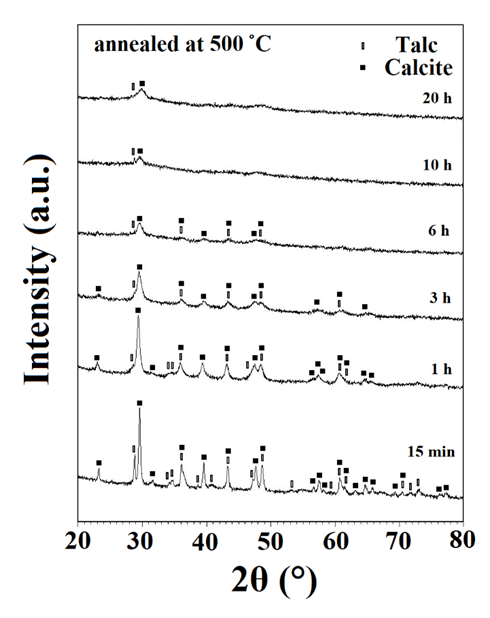
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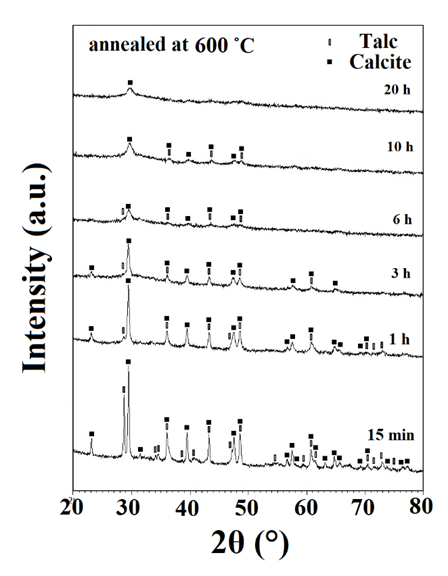
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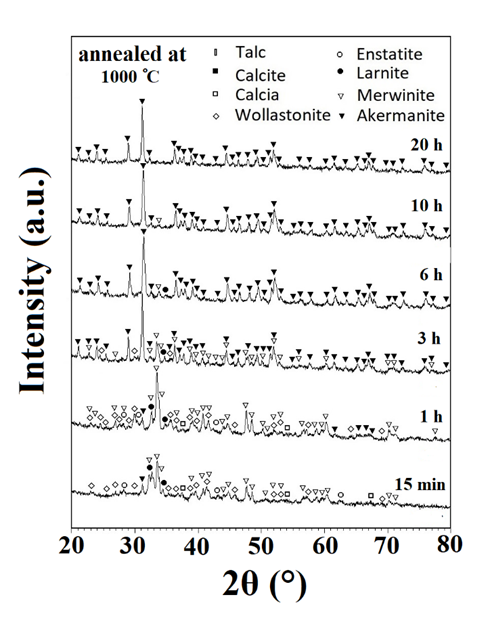
**Figure S1.** XRD pattern of silica powder.



**Figure S2.** XRD patterns of ball milled samples at various time after annealing at 500 °C for 1h.



**Figure S3.** XRD patterns of ball milled samples at various time after annealing at 600 °C for 1h.



**Figure S4.** XRD patterns of ball milled samples at various time after annealing at 1000 °C.