

Chapter 6

Future work

1. The conditions for sintering to attain full density of mullite ceramic will be sought in order to optimize the cost of firing in industrial scale.

2. We should study the effect of impurities in starting materials on the microstructure of mullite ceramic and its properties such as mechanical properties, thermal properties etc.

3. To improve mechanical strength of mullite ceramic by improving powder preparation, adding a better binder, increasing forming pressure or changing to isostatic pressing.

4. To test the bending strength of porous mullite that produced from Formula 1-U-G in order to find some application to utilize the low-cost mullite.

5. To perform feasibility study of our synthesis process in industrial scale.