

### Increase of ionic conductivity of ionic clathrate hydrate due to thermal treatment

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In our study we tried to analyze whether lattice expansion and distortion of ionic clathrate hydrate by thermal treatment are possible? In addition what is the reason for ionic conductivity increase after thermal treatment? Thermal treatment means temperature shift procedure which starting from 298K goes down to 77K then return to 298K. In this experiment to check change of lattice parameter we used low temperature XRD. To check Ionic conductivity change we observed change of resistance of sample by using solatron.