

Li₂CO₃ thin films fabricated by sputtering techniques: the role of temperature on their properties

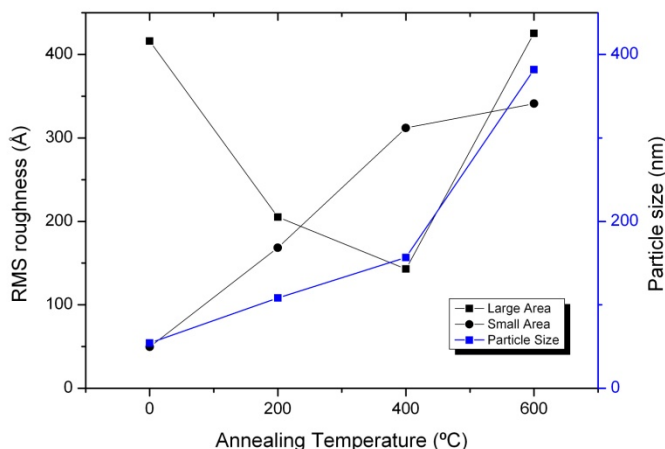
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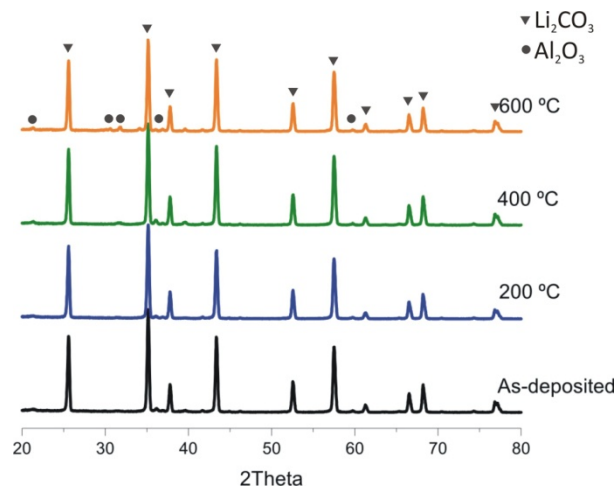
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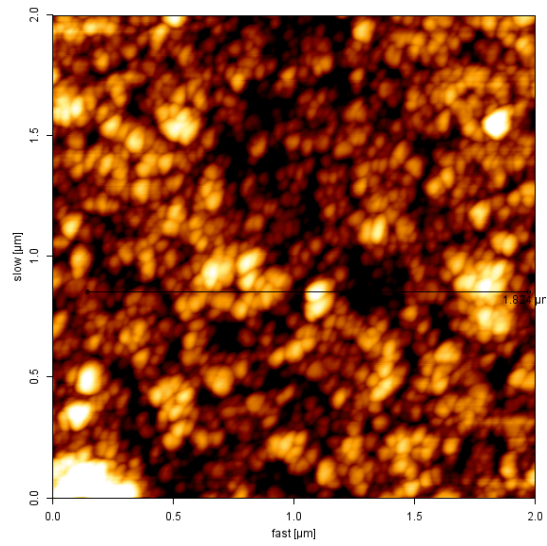


Supporting 1. Evolution of the RMS roughness and particle size of Li₂CO₃ thin films with annealing temperature. The included lines in the graph try to show more clearly the evolution of the roughness and particle size with the annealing temperature.

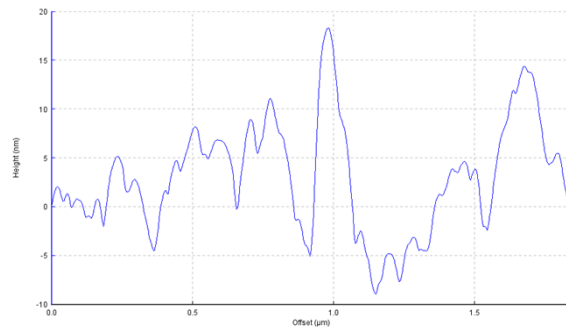


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Supporting 2 Complete diffraction pattern of Li₂CO₃.

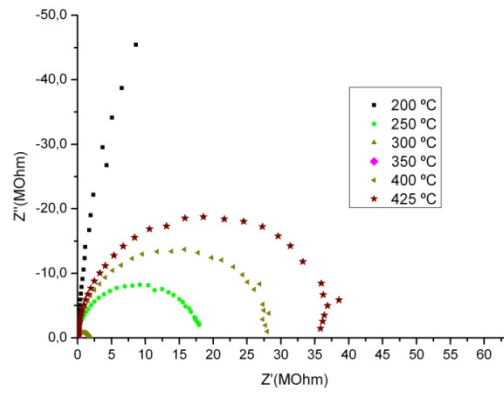


a)



b)

5 **Supporting 3.** AFM height image and its cross section of an as deposited sample



Supporting 4 Li_2CO_3 impedance spectra in the temperature range of 200 °C- 425 °C.