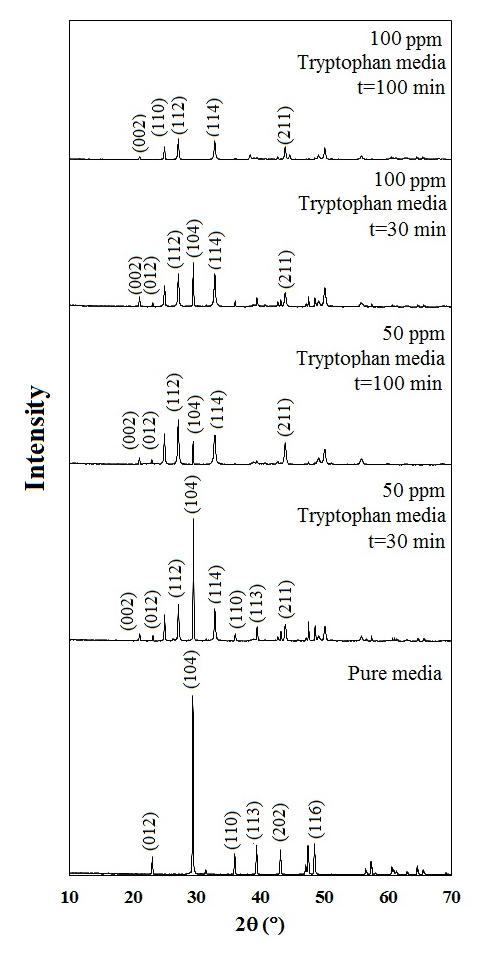
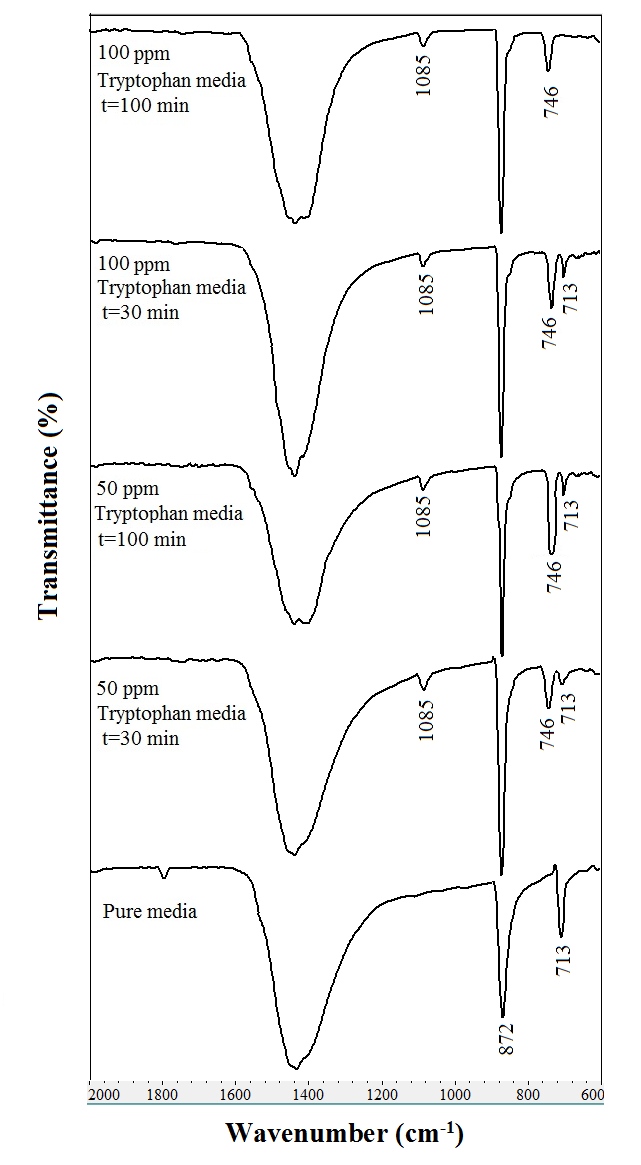
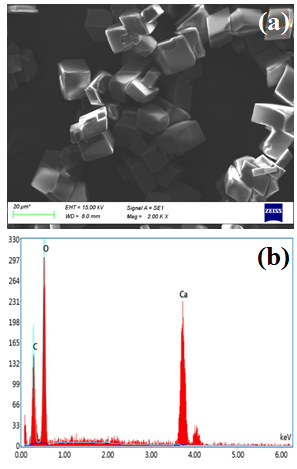
**Figures**



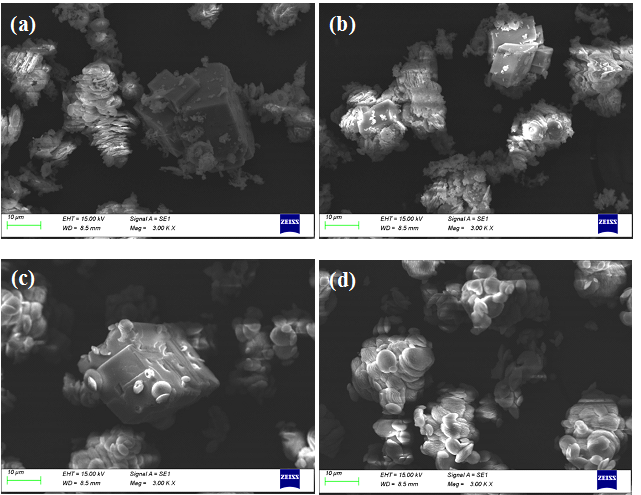
**Figure 1.** XRD results for CaCO3 crystals precipitated in pure media and media supplemented with 50 and 100 ppm tryptophan.



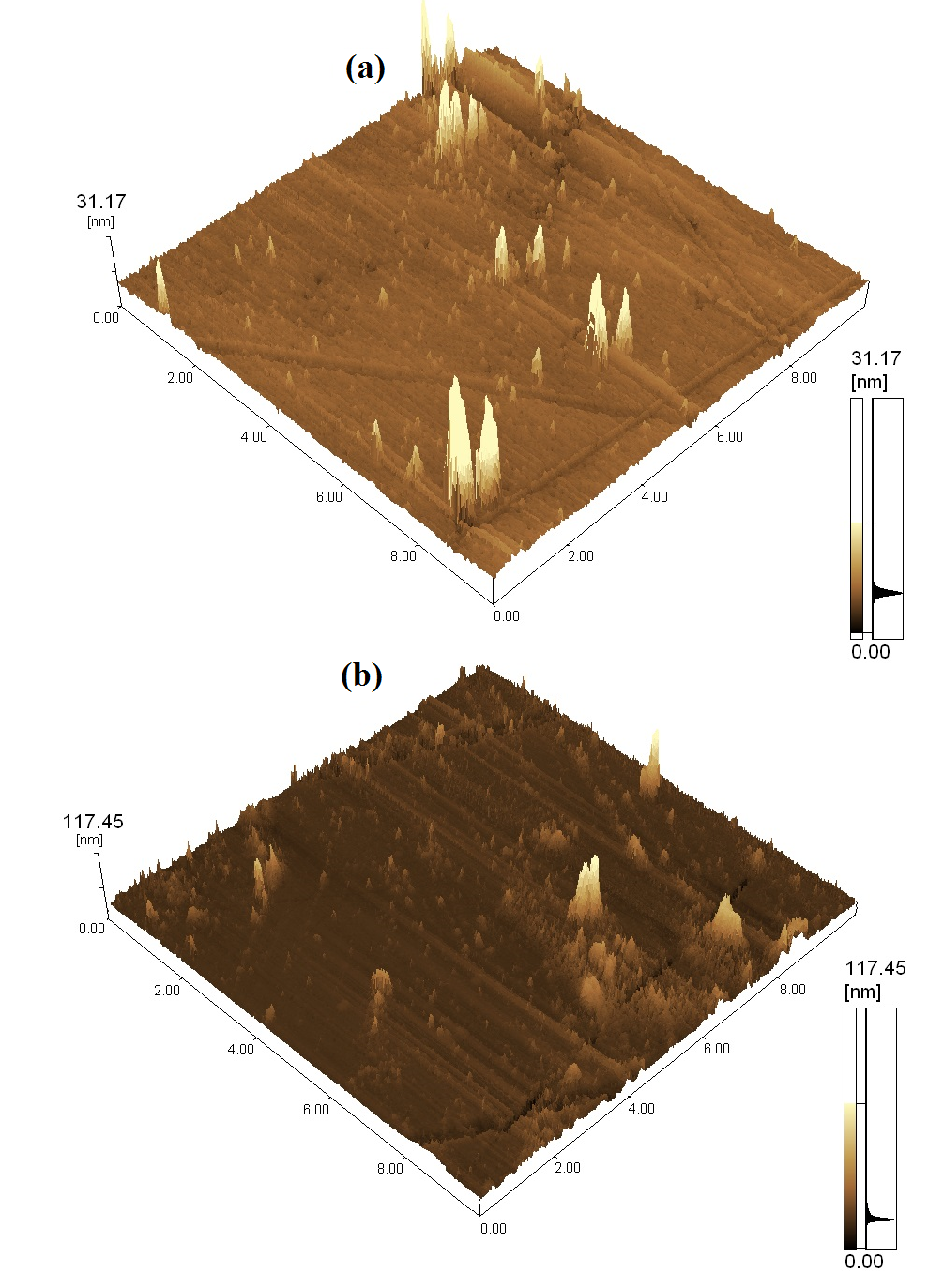
**Figure 2.** FTIR results for CaCO3 crystals precipitated in pure media and media supplemented with 50 and 100 ppm tryptophan.

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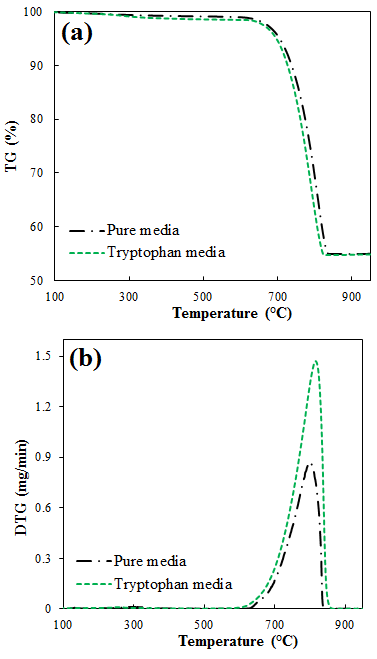
**Figure 3.** a) SEM and b) EDX results of CaCO3 crystals precipitated in pure media.



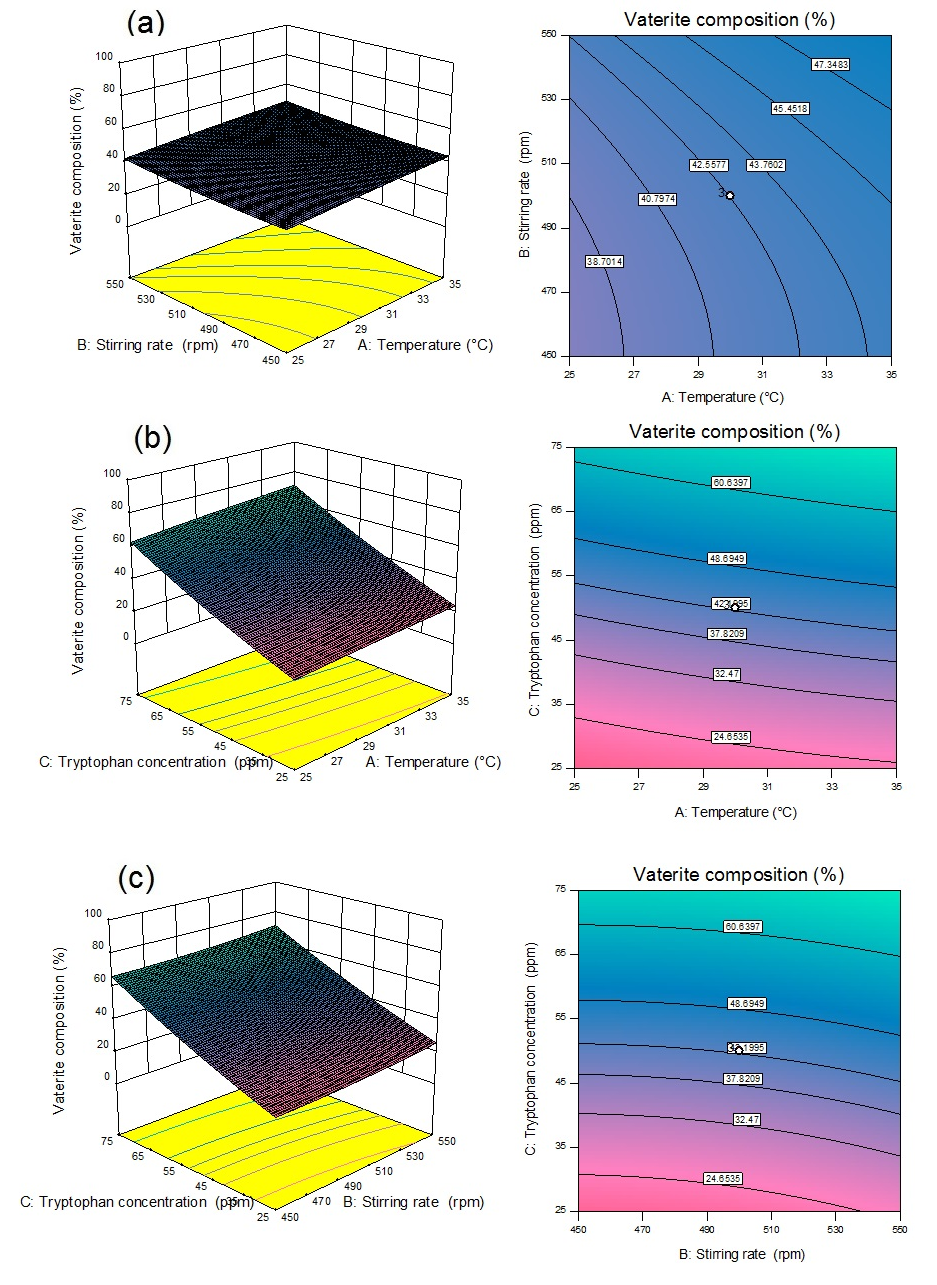
**Figure 4.** SEM images for CaCO3 crystals precipitated with 50 ppm tryptophan at t = 30 min (a) and at t = 100 min (b) and with 100 ppm tryptophan at t = 30 min (c) and at t = 100 min (d).



**Figure 5.** 3D micrographs for the crystals precipitated without (a) and with 100 ppm tryptophan (b).



**Figure 6.** a) TG and b) DTG curves of CaCO3 crystals precipitated in pure media and with 100 ppm tryptophan.



**Figure 7.** 3D-surface and contour plots showing the effects of (a) temperature and stirring rate; (b) temperature and tryptophan concentration; and (c) stirring rate and tryptophan concentration on the vaterite composition.