

## Accepted Manuscript

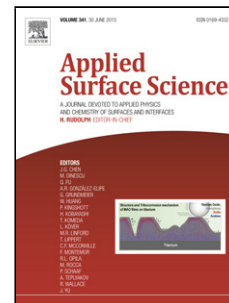
Title: Synthesis of Dittmarite/Mg(OH)<sub>2</sub> composite coating on AZ31 using hydrothermal treatment

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#### Highlights

1. Synthesis of Ditnnarite  $\text{Mg}(\text{OH})$ : coating on AZ31 alloy by hydrothennal method.
2. The mechanism of composite coating growth and its characterizations.
3. The coating is corrosion resistant significantly.
4. Lack of hydroxyl deposition on the coating surface.
5. Strong adhesion between the coating and the substrate.
6. The synthesized coating meets the cytotoxicity standards.

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