

Formation mechanism for planes (011) and (001) oriented Mg(OH)₂ films electrodeposited on SnO₂ coating glass

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5 Electrochemical characterization

In this work, the average current density was $-0.27 \text{ mA}\cdot\text{cm}^{-2}$ at -1.2 V with potentiostatic method, while $-4.8 \text{ mA}\cdot\text{cm}^{-2}$ was get at -2.0 V with slope of $6.59 \text{ mA}\cdot\text{cm}^{-2}\cdot\text{V}^{-1}$ with linear sweep voltage method.

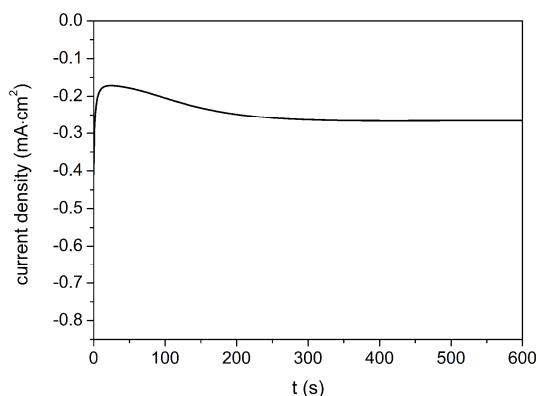


Fig. S1 Chronoamperometric curve for Mg(OH)₂ films deposition at -1.2 V vs. SCE

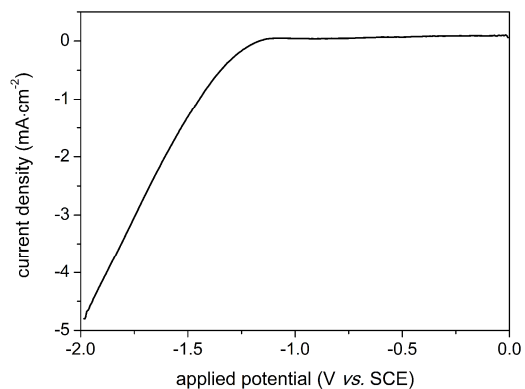


Fig. S2 IV curve of linear sweep voltage method (sweeping rate: 10 mV/s)