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Anodic activation of Mg in the presence of In^{3+} ions in dilute sodium chloride solution

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Highlights

- Anodic kinetics on Mg increased in 0.1 M NaCl with the addition of 1 mM In^{3+} ions.
- Cathodic kinetics on Mg remained unchanged in 0.1 M NaCl with the addition of 1 mM In^{3+} ions.
- Lower hydrogen evolution rates during anodic polarisation on Mg in 0.1 M NaCl + 1 mM In^{3+} ions.
- Higher discharge current densities and efficiencies on Mg anode in the presence of 1mM $InCl_3$.