

SUPPLEMENTARY MATERIAL TO
Corrosion protection of AZ91D magnesium alloy by a duplex coating

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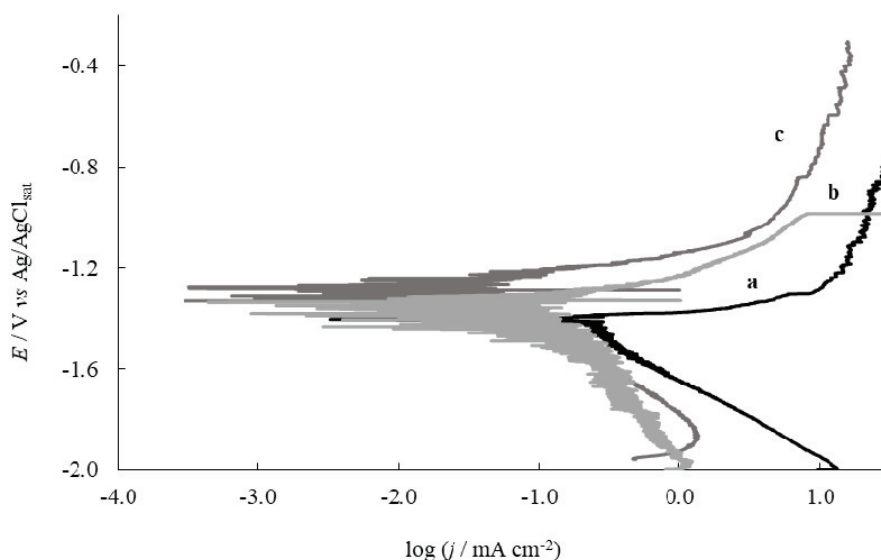


Fig. S-1. Potentiodynamic polarization curves in Ringer solution for: a - uncoated AZ91D alloy and b - alloy covered with: PPy_{0.25}; c - PPy_{0.50}. The scan rate was 0.001 V s⁻¹.

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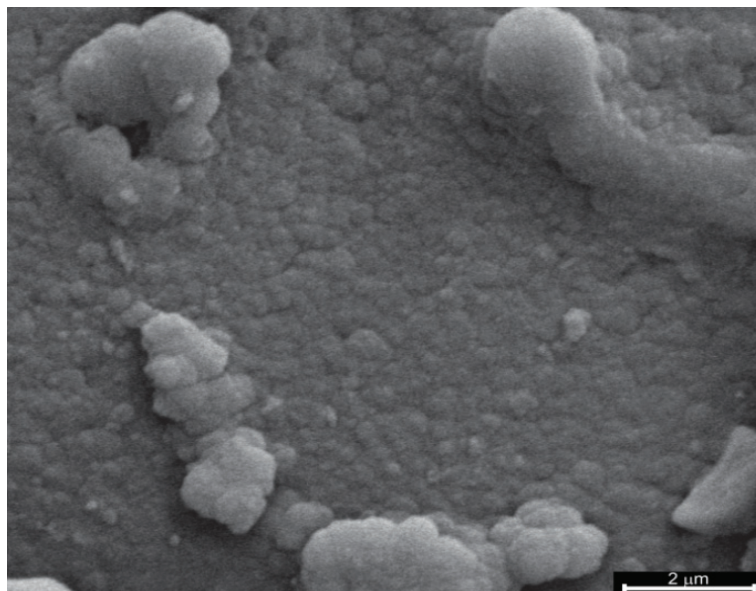


Fig. S-2. SEM image of the RMo-PPy_{0.25} film synthesized onto AZ91D alloy.

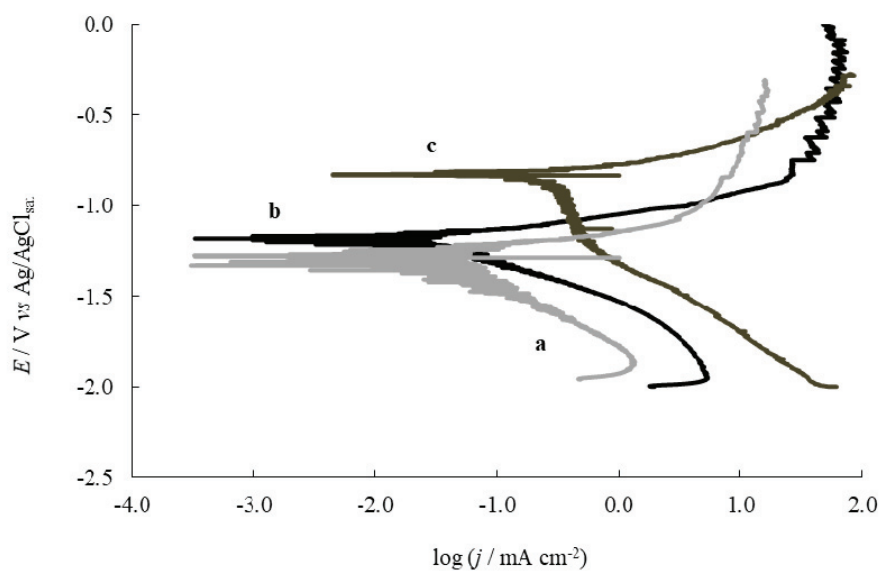


Fig. S-3. Potentiodynamic polarization curves in Ringer solution for the AZ91D alloy covered with: a - PPy_{0.25}; b - RMo-PPy_{0.25} and c - RMo-PPy_{0.25}-Ag. The scan rate was 0.001 V s⁻¹.

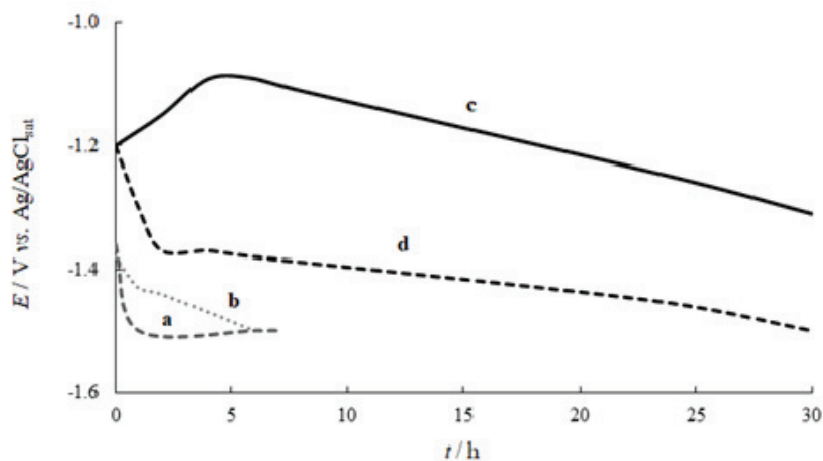


Fig. S-4. Time dependence of the *OCP* in Ringer solution for: a - uncoated alloy and b - the alloy covered with: $PPy_{0.25}$; c - $RMo-PPy_{0.25}$; d - $RMo-PPy_{0.25}-Ag$.

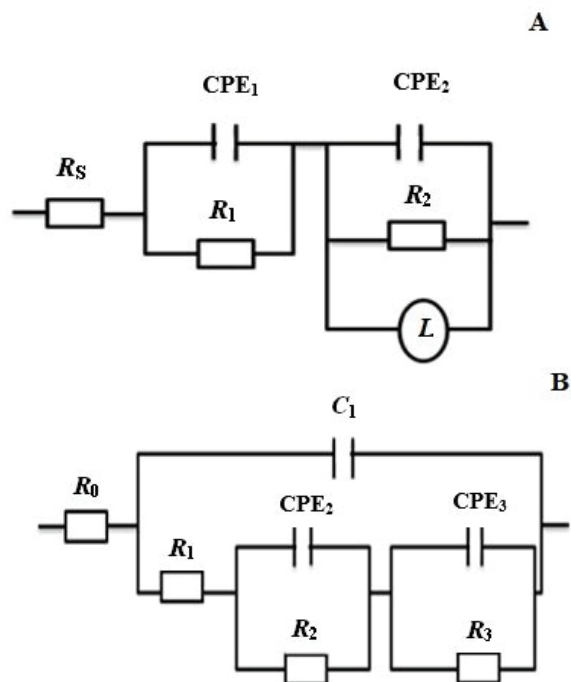


Fig. S-5. Equivalent circuit used for fitting the experimental EIS data for: A - uncoated alloy and B - $RMo-PPy_{0.25}$ -covered AZ91D alloy.

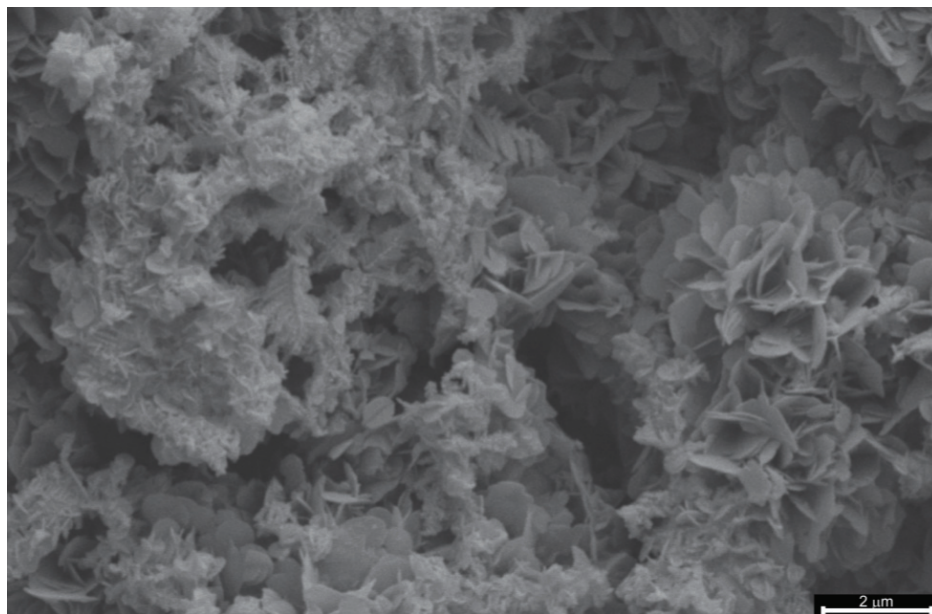


Fig. S-6. SEM images of the RMo-PPy_{0.25}-covered AZ91D Mg alloy immersed in 0.05 M AgNO₃ solution for 4 h under open circuit conditions.