Title: Influence of Plating Parameter and Surface Morphology on Mild steel.
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Abstract: The plating parameter effect of Zinc deposition on mild steel substrates was investigated. The results showed an improved surface finished and homogeneous layer. The distance between the anode and the cathode on voltage, plating time and coating thickness were considered. The mild steel was deposited into solution of zinc bath for varying voltage between 0.5v and 1.0v. It was discovered that the sample plated at 0.8v for 15 minutes gives the best plating deposition and appearance. The surface morphology of the plated sample was analyzed by Focused ion beam scanning electron microscopy (FIB-SEM), AFM and X-ray diffraction.