

Supplementary Material

Growth Of Anodic Layers On 304L Stainless Steel Using Fluoride Free Electrolytes And Their Electrochemical Behavior In Chloride Solution

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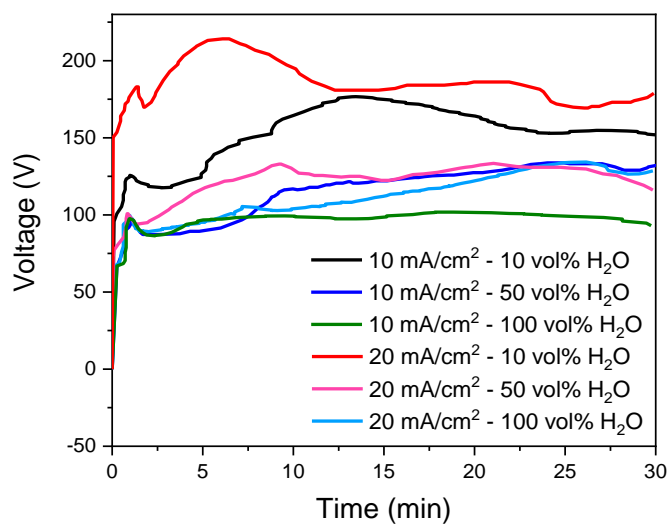


Figure S1. Voltage-time curves of the anodic layers grown in glycerol electrolyte containing 0.3 M NaAlO₂ and different H₂O concentrations (10-50-100 vol%) for 30 min at 10 and 20 mA/cm².

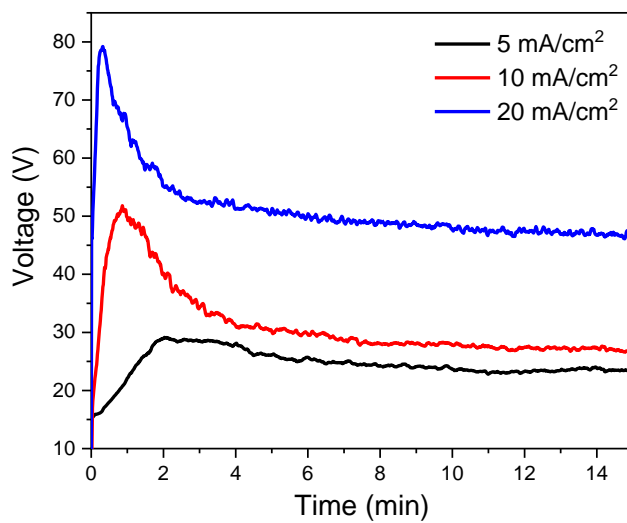


Figure S2. Voltage-time curves of the anodic layers grown in glycerol electrolyte containing 0.1 M Na₂SiO₃ and 2.5 vol% H₂O for 15 min at 5-10-20 mA/cm².

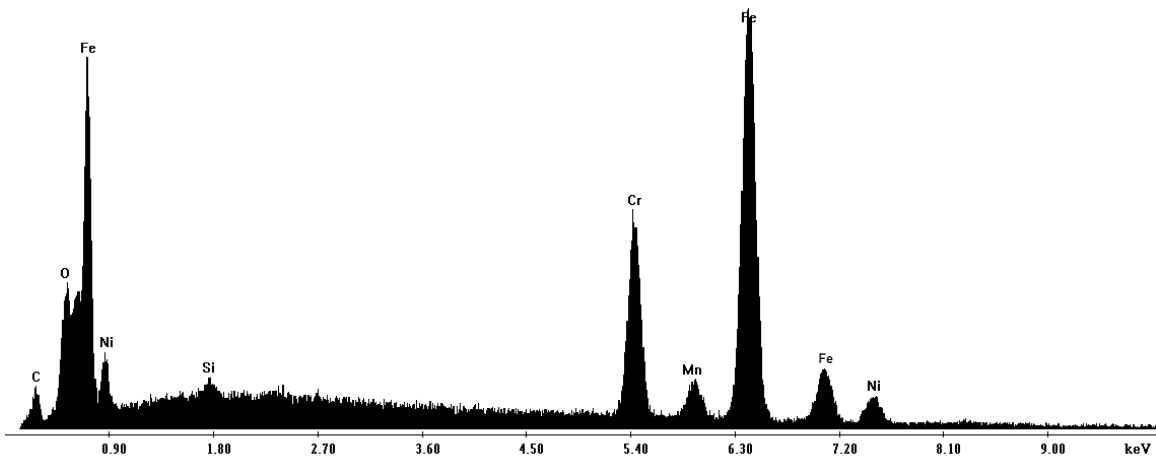


Figure S3. EDS diagram of the anodic layers grown in glycerol, 0.1 M Na_2SiO_3 and 2.5 vol% H_2O for 15 min at 20 mA/cm^2 .

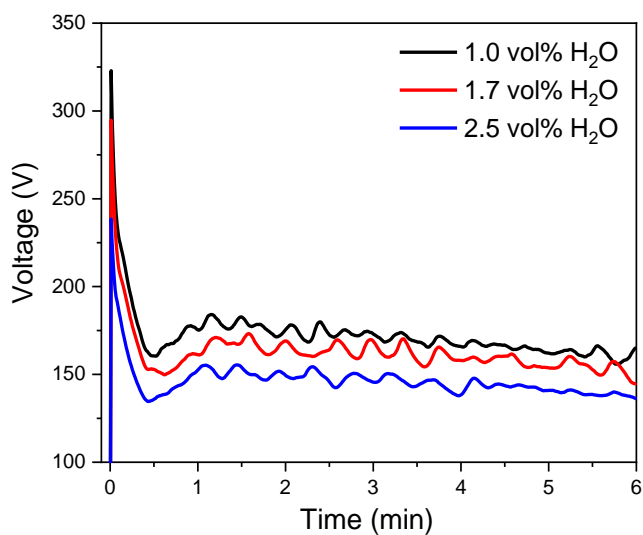


Figure S4. Voltage-time curves of the anodic layers grown in glycerol electrolyte containing 0.05 M Na_2SiO_3 and different H_2O concentration (1.0-1.7-2.5 vol%) for 6 min at 20 mA/cm^2 .

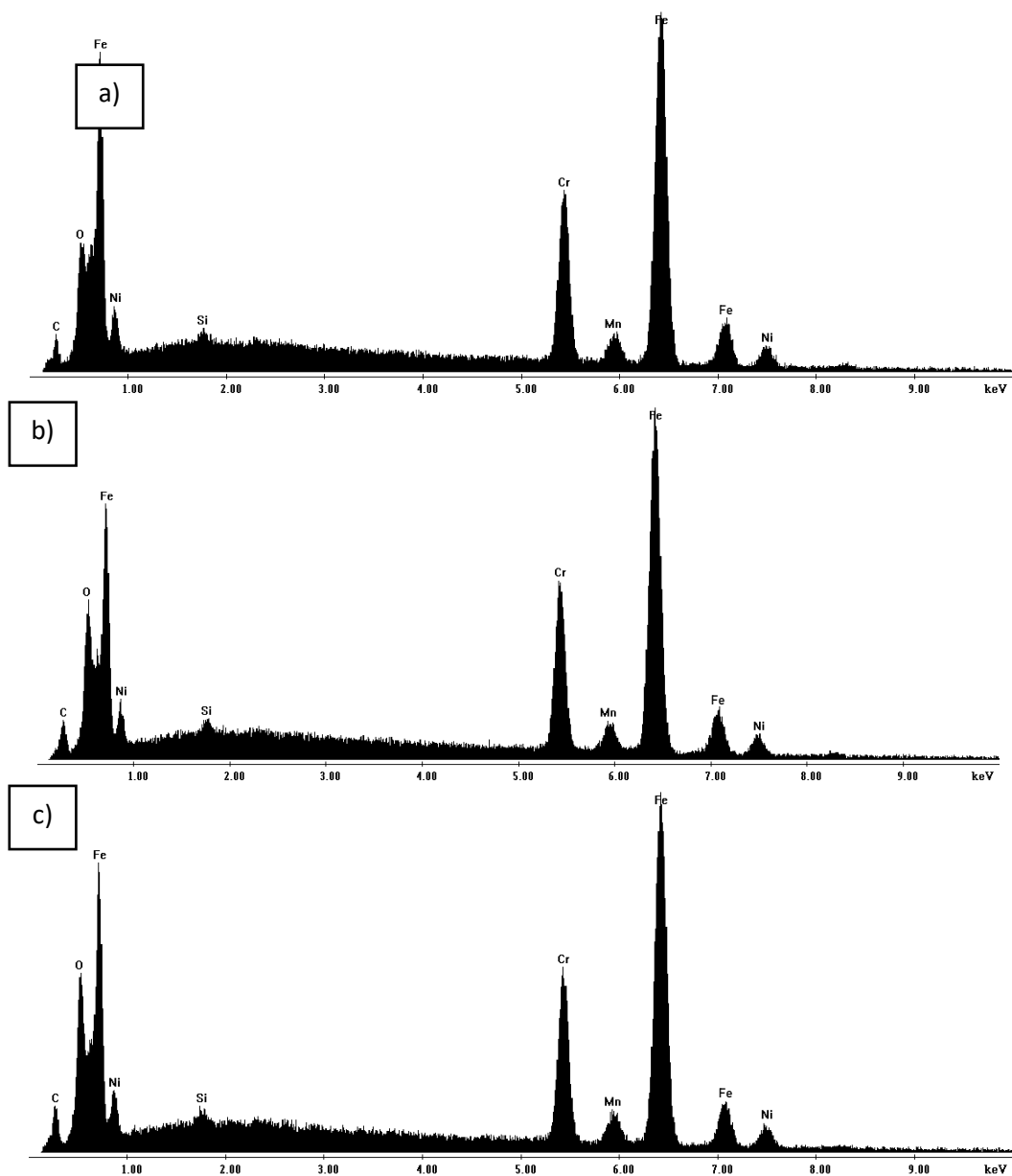


Figure S5. EDS diagrams of the anodic layers grown in a glycerol, 0.05 M Na₂SiO₃ with H₂O concentration of (a) 1.0, (b) 1.7, (c) 2.5 vol% for 6 min at 20 mA/cm².