

Supporting Information

Surface modification of mild steel using 4-carboxyphenyl diazonium in sulfuric and hydrochloric acids. A corrosion study

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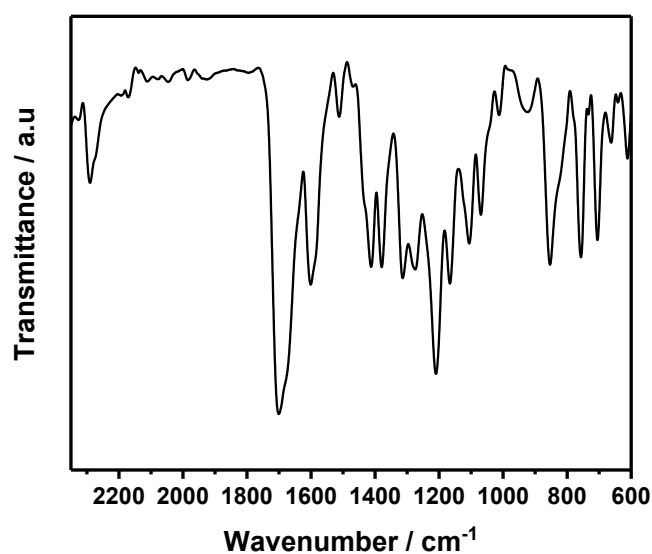


Fig. 1S Infrared spectra of the solid obtained by drying the aqueous solution of 4-aminobenzoic acid and sodium nitrite in 0.5 M HCl, which resulted in the *in-situ* formation of the diazonium product.

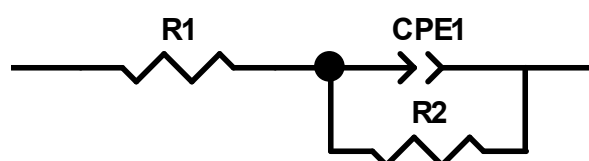


Fig. 2S The Randle's CPE equivalent circuit used to fit the impedance data. R1 is the solution resistance, CPE1 is the constant phase element and R2 is the polarization resistance.

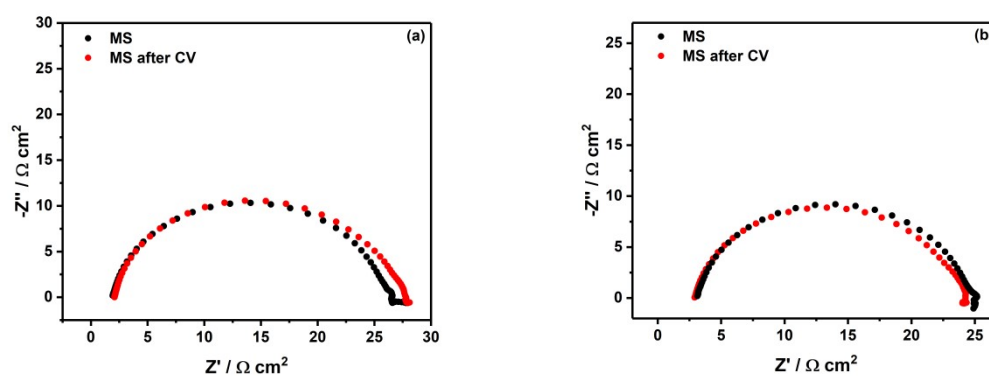


Fig. 3S Nyquist plots of MS surface without and with electrochemical assistance in (a) 0.5 M HCl and (b) 0.25 M H₂SO₄.