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Chrysanthemum Flower Extract as a Green Inhibitor for Aluminium Corrosion in Alkaline Medium

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Abstract:The inhibition efficiency of the aqueous extracts of the *Chrysanthemum* flower as an inhibitor for the Aluminium metal in the alkaline medium was tested using weight loss, potentiodynamic polarisation and AC impedance method. The results obtained showed that the flower extract acts as efficient inhibitor for the system. The inhibition efficiency increases with the increase in the concentration of the inhibitor. Potentiodynamic polarization study reveals that the system controls the cathodic reaction predominantly. The straight line obtained as a result of Langmuir and Temkin adsorption isotherm physical adsorption of the inhibitor on the metal surface. The nature of the film formed on the metal surface was analysed using Scanning Electron Microscope (SEM).

Keywords: Inhibitor, Adsorption isotherm, SEM, Aluminium.

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