

Proceeding Paper

Effective Corrosion Inhibition of Mild Steel in an Acidic Environment Using an Aqueous Extract of Macadamia Nut Green Peel Biowaste [†]

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[†] Presented at the 3rd International Electronic Conference on Applied Sciences, 1–15 December 2022; Available online: <https://asec2022.sciforum.net/>.

Abstract: Improving the corrosion resistance of mild steel in an acidic aqueous environment is an important industrial consideration due to the use of acids for descaling and cleaning. The application of corrosion inhibitors is one of the most effective and economical means of protecting metals against corrosion. Plant-derived compounds have recently gained attention due to their low cost, non-toxic, and environmentally friendly properties. Biowastes are recognized as a potential cheap source of green corrosion inhibitors, and their use can help to lower the costs associated with corrosion inhibitors. Green peel biowaste (GPBW) generated from macadamia nut processing is typically dumped into the environment, posing a disposal concern. The use of the waste as a potential source of organic compounds with green chemistry attributes for mild steel corrosion inhibition in an acidic solution was proposed in this study. The gasometric and optical methods were used to carry out the investigations. Results showed that mild steel corrosion rates decreased as extract concentrations increased. As a result, mild steel corrosion inhibition increased with increasing inhibitor concentration and reached a peak value of 81% at 0.5 g/L extract concentration. The optical images showed that the inhibitor molecules adsorbed on the metal surface to form a protective film that isolated the mild steel from the corrosive solution. The adsorption of inhibitor molecules on the mild steel surface followed the Langmuir adsorption isotherm, indicating the formation of a monolayer film with a homogeneous distribution of adsorbed molecules. A Gibbs free energy (G°_{ads}) of 24 kJ/mol indicated the inhibition process was mainly characterized by physical adsorption. The results of this study suggest that aqueous GPBW extract could serve as an inexpensive, non-toxic, and renewable corrosion inhibitor of mild steel in acidic solutions.

Keywords: corrosion inhibition; macadamia green peels; biowastes; green chemistry; mild steel; acidic solution



Citation: Mwakalesi, A.J.; Nyangi, M. Effective Corrosion Inhibition of Mild Steel in an Acidic Environment Using an Aqueous Extract of Macadamia Nut Green Peel Biowaste. *Eng. Proc.* **2023**, *31*, 41. <https://doi.org/10.3390/ASEC2022-13804>

Academic Editor: Noriyo Cossumo

Published: 2 December 2022

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1. Introduction

Mild steel corrosion is an inevitable process, particularly in the oil and gas industries, due to repetitive exposure to corrosive acidic environments during industrial cleaning, acid pickling, and acid descaling procedures. These procedures are performed at regular intervals to improve the efficiency of industrial processes. Consequently, corrosion control is commonly applied to extend the lifetime of mild steel materials in these acidic environments. Some common methods employed to control mild steel corrosion include the use of corrosion-resistant materials, corrosion inhibitors, and protective coatings. Among these, corrosion inhibitors are the most effective, practical, and economical method of metal corrosion control. Synthetic corrosion inhibitors such as chromates and phosphates deliver a satisfactory performance. However, these chemicals can cause toxic and harmful effects

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