

Retraction

Retracted: Inhibition Effect of Substituted Thiadiazoles on Corrosion Activity of N80 Steel in HCl Solution

Journal of Metallurgy

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Journal of Metallurgy has retracted the article titled “Inhibition Effect of Substituted Thiadiazoles on Corrosion Activity of N80 Steel in HCl Solution” [1]. The article was found to contain images reused in several other articles published by Mahendra Yadav and colleagues. The details of the reuse of images are as follows:

Figure 9(b) is similar to Figure 11b in [2], Figure 17b in [3], Figure 14b in [4], and Figure 5b in [5]. Figure 9(c) is similar to Figure 11c in [2], Figure 17c in [3], and Figure 14c in [4]. In particular, Figure 9 in [1] shares the same image of a sample in HCl as Figure 11 in [2] and the same image in the presence of an inhibitor, but these represent different inhibitors in each article, AMPT, and BAL, respectively.

We asked the authors to provide the underlying un-cropped and unadjusted scanning electron microscopy (SEM) images, the raw data, and details of how the experiments were conducted.

The corresponding author, Dr. Yadav, said the SEM work was outsourced but did not give details on where, when, or by whom this work was performed. The equipment is described as a “JEOL JSM-6380 LA analytical scanning electron microscope” in this article. However, there is no description of the scanning electron microscope in [2] and in [6] it is described as a “Scanning Electron Microscope model SEM Jeol JSM-5800.” These are not the same model of microscope, despite these articles sharing some of the same SEM images.

Dr. Yadav provided us with replacement figures. However, they were identical for two of the articles, [1, 6], despite representing experiments with the inhibitors AMPT and ODAEODI, respectively. We were not told how these images were generated, the images were of low resolution, and the text in the images was illegible.

The corresponding author agreed to retraction and we have asked the institution to formally investigate.

References

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