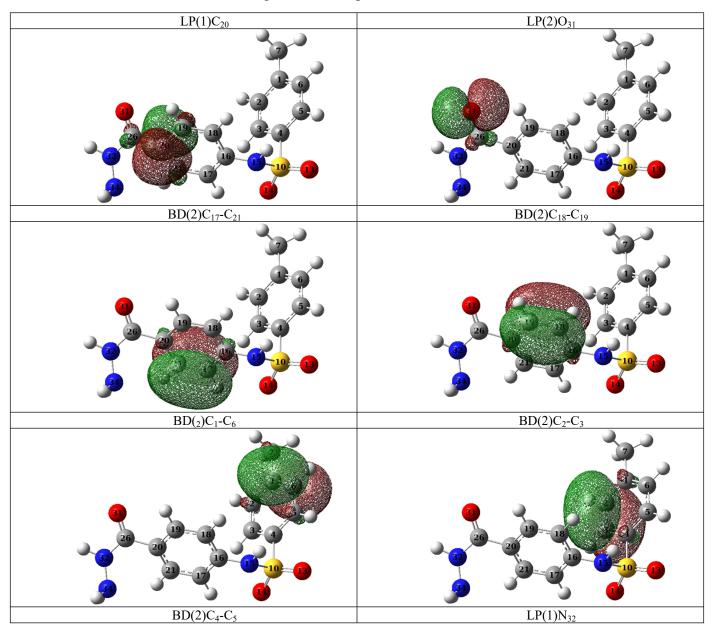
## **Supporting Information for**

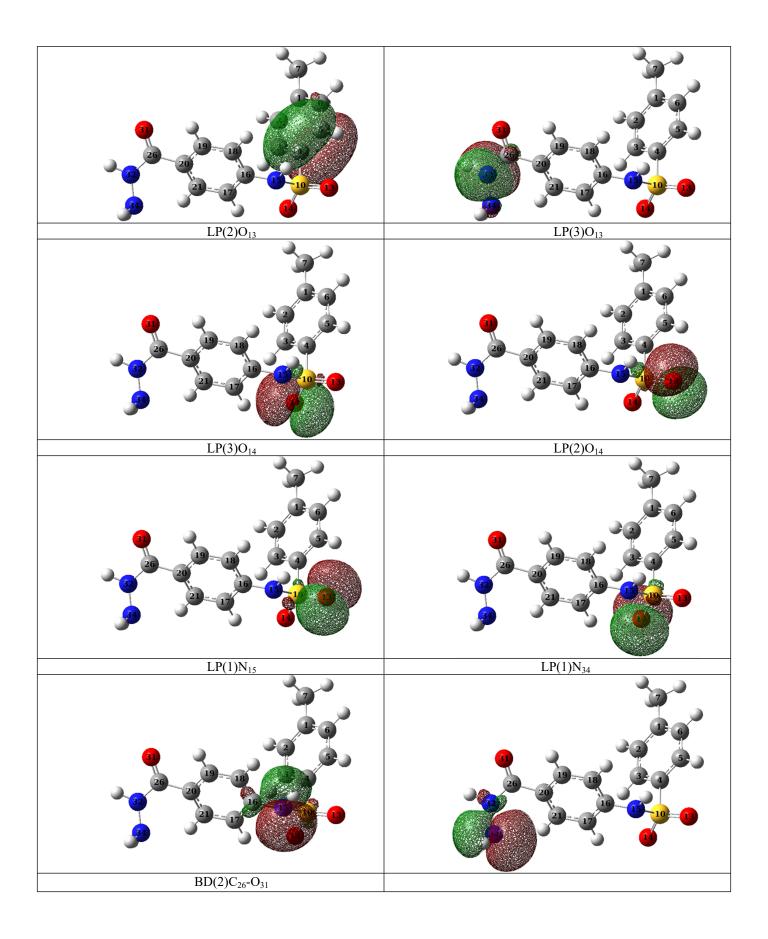
## An Ethyl Ester/Acyl Hydrazide-Based Aromatic Sulfonamide: Facile Synthesis, Structural Characterization, Electrochemical Measurements and Theoretical Studies as Effective Corrosion Inhibitors for Mild Steel in 1.0 M HCl

Mahmoud A. Bedair<sup>a,b</sup>, Ahmed M. Abuelela<sup>a,\*</sup>, Medhat Owda<sup>a</sup>, Essam M. Eliwa<sup>a</sup>

<sup>a</sup>Department of Chemistry, Faculty of Science (Men's Campus), Al-Azhar University, Nasr City 11884, Cairo, Egypt <sup>b</sup>College of science and arts, University of Bisha, Al-Namas 61977, P.O. Box 101, Saudi Arabia.

**Table S1** Calculated NBOs densities of *p*-TSAH at expected inhibitor-metal interactions.





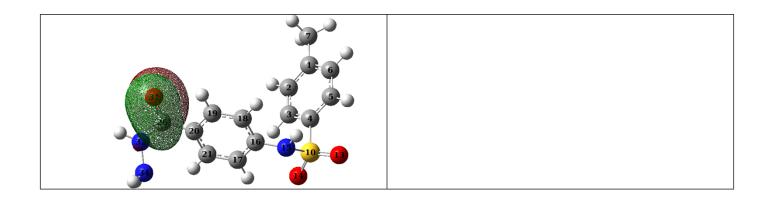


Table S2 Calculated NBOs densities of p-TSAE at expected inhibitor-metal interactions.

