Supporting Information

Fabrication of a Highly Tunable Graphene Oxide Composite through Layer-by-Layer
Assembly of Highly Crystalline Polyaniline Nanofibers and Green Corrosion Inhibitors:
Complementary Experimental and First-Principles Quantum Mechanics Modeling
Approaches

- B. Ramezanzadeh, a,* P. Kardar, G. Bahlakeh, Y. Hayatgheib, M. Mahdavian
- a. Surface Coating and Corrosion Department, Institute for Color Science and Technology, Tehran, Iran
- b. Department of Engineering and Technology, Golestan University, Aliabad Katool, Iran

^{*} ramezanzadeh-bh@icrc.ac.ir, ramezanzadeh@aut.ac.ir

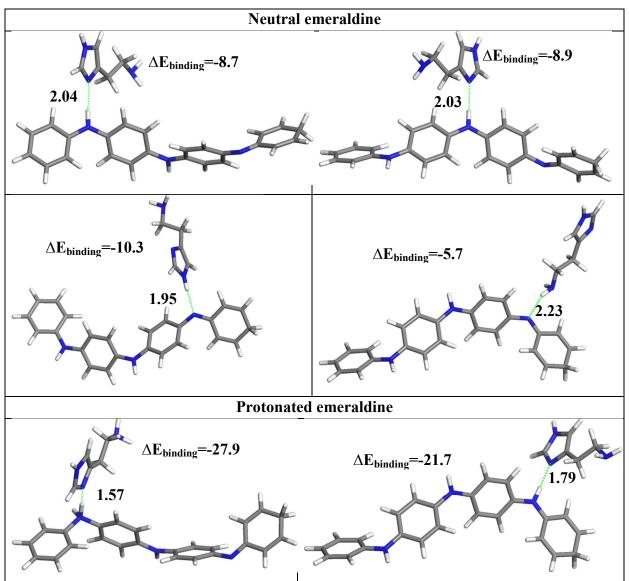


Figure S1- The B3LYP/6-31G(d,p) optimized hystamine interacting with phenyl-terminated neutral/protonated emeraldine trimer form of polyaniline. The calculated binding energies are in kcal/mol, and the H-bonds are in angstrom (Å). The binding energies and H-bond length for nitrogen-terminated emeraldine are shown in parentheses.