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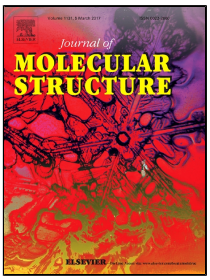

A Computational study on corrosion inhibition performances of novel quinoline derivatives against the corrosion of iron

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HIGHLIGHTS

- Theoretical methods were used for the study.
- Studied quinoline derivatives are effective inhibitors against the corrosion of iron
- Quantum chemical parameters are in good correlation with experimental data.
- Adsorption energies calculated are in good agreement with experimental data

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