

## DAFTAR PUSTAKA

1. Efil, K.; Bekdemir, Y. Theoretical Study on Corrosion Inhibitory Action of Some Aromatic Imines with Sulphanilic Acid: A DFT Study. *Can. Chem. Trans.* 2015, No. March, 85–93.
2. Stiadi, Y.; Arief, S.; Aziz, H.; Efdi, M.; Emriadi. Inhibisi Korosi Baja Ringan Menggunakan Bahan Alami Dalam Medium Asam Klorida: Review. 2019, 51–65.
3. Sidiq, M. F. Electrochemical Process. *Met. Finish.* 2002, 100 (2), 123.
4. Irianty, R. S.; Khairat, D. Ekstrak Daun Pepaya Sebagai Inhibitor Korosi Pada Baja AISI 4140 Dalam Medium Air Laut. *J. Teknobiologi, IV* 2013, No. 2, 77–82.
5. Emriadi; Untari, P.; Efdi, M. Leave Extract Of Syzygium Malaccense As Green Inhibitor Of Mild Steel In Acidic Medium. 2021, 14 (1), 569–577.
6. Yetri, Y.; Emriadi; Jamarun, N.; Gunawarman. Corrosion Behavior of Environmental Friendly Inhibitor of Theobroma Cacao Peels Extract for Mild Steel in NaCl 1.5 M. *EnvironmentAsia* 2014, 7 (1), 104–111.
7. Marni, L. G.; Emriadi, E.; Syukri, S.; Imelda, I. Mempelajari Inhibisi Korosi Senyawa Khellin Dan Visnagin Pada Atom Besi Menggunakan Metode DFT (Density Functional Theory). *J. Litbang Ind.* 2019, 9 (2), 111.
8. Mazlan, N.; Jumbri, K.; Azlan Kassim, M.; Abdul Wahab, R.; Basyaruddin Abdul Rahman, M. Density Functional Theory and Molecular Dynamics Simulation Studies of Bio-Based Fatty Hydrazide-Corrosion Inhibitors on Fe (1 1 0) in Acidic Media. *J. Mol. Liq.* **2022**, 347, 118321.
9. Ramadhani, F.; Emriadi; Syukri. Theoretical Study of Xanthone Derivative Corrosion Inhibitors Using Density Functional Theory ( DFT ). **2020**, 6 (May), 95–103.
10. Kariya, K.; Murata, K.; Kokubo, Y.; Ube, N.; Ueno, K.; Yabuta, Y.; Teraishi, M.; Okumoto, Y.; Mori, N.; Ishihara, A. Variation of Diterpenoid Phytoalexin Oryzalexin A Production in Cultivated and Wild Rice. *Phytochemistry* **2019**, 166 (June), 112057.
11. Wiyarsi, A.; Priyambodo, E. Pengaruh Konsentrasi Kitosan Dari Cangkang Udang Terhadap Efisiensi Penjerapan Logam Berat. *J. Kim. UNY* **2008**, 1(1), 27.
12. Mulya, F. F. Analisa Korosi Retak Tegangan Pada Stainless Steel ( Aisi 304 ) Yang Diberi Perlakuan Panas Dengan Variasi. **2019**, No. Aisi 304.
13. Ogunleye, I.; Adeyemi, G. Effect of Grape Fruit Juice on the Corrosion Behaviour of Mild Steel in Acidic Medium. *Am. J. Sci. Ind. Res.* **2011**, 2 (4), 611–615.
14. Arthur, D. E.; Uzairu, A.; Mustapha, A.; Adeniji, E. S.; David, E. A. A

- Computational Adsorption and DFT Studies on Corrosion Inhibition Potential of Some Derivatives of Phenyl-UREA. *Kenkyu J. Nanotechnol. Nanosci.* **2019**, *5*, 19–32.
15. Mulyati, B. Tanin Dapat Dimanfaatkan Sebagai Inhibitor Korosi. *J. Ind. Elektro, dan Penerbangan* **2019**, *8* (1), 1–4.
  16. Haryono, G.; Sugiarto, B.; Farid, H. Ekstrak Bahan Alam Sebagai Inhibitor Korosi. *Pros. Semin. Nas. Tek. Kim. "Kejuangan" Pengemb. Teknol. Kim. untuk Pengolah. Sumber Daya Alam Indones.* **2010**, 1–6.
  17. Utomo, S. Pengaruh Konsentrasi Larutan Nano 2 Sebagai Inhibitor Terhadap Laju Korosi Besi Dalam Media Air Laut. *J. Teknol.* **2015**, *7* (2), 93–103.
  18. Nuraida, D. Uji Aktivitas Ekstrak Biji Kapas (*Gossypium Hirsutum*) Terhadap Pertumbuhan Jamur *Rhizoctonia Solani*. *Berk. Penel. Hayati Ed. Khusus* **2011**, *6C* (1), 11–14.
  19. Arruda, R. L.; Paz, A. T. S.; Bara, M. T. F.; Côrtes, M. V. de C. B.; de Filippi, M. C. C.; da Conceição, E. C. An Approach on Phytoalexins: Function, Characterization and Biosynthesis in Plants of the Family Poaceae. *Cienc. Rural* **2016**, *46* (7), 1206–1216.
  20. Prianto, B. Pemodelan Kimia Komputasi. *Ber. Dirgant.* **2007**, *8* (1), 4.
  21. Pongajow, N. T.; Juliandri, J.; Hastiawan, I. Penentuan Geometri Dan Karakteristik Ikatan Senyawa Kompleks Ni(li)-Dibutilditiokarbamat Dengan Metode Density Functional Theory. *Indones. J. Appl. Sci.* **2017**, *7* (2), 33–36.
  22. Hutapea, T. P. H. Potensi Gelatin Ikan Bandeng (*Chanos Chanos*) Sebagai Bioinhibitor Logam Besi Pada Larutan NaCl 3% Dan Hcl 3%. *Molecules* **2020**, *2* (1), 1–12.
  23. Fu, J. J.; Li, S. N.; Wang, Y.; Cao, L. H.; Lu, L. De. Computational and Electrochemical Studies of Some Amino Acid Compounds as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution. *J. Mater. Sci.* **2010**, *45* (22), 6255–6265.
  24. Deswita, E.; Imelda; S, R. F.; Oesamah. Modifikasi Struktur Zat Warna Kuinolin Untuk Meningkatkan Kinerja Selsurya Menggunakan Metode DFT. *J. Kim. Saintek dan Pendidik.* **2021**, *V* (2), 76–85.
  25. Radhi, A. H.; Du, E. A. B.; Khazaal, F. A.; Abbas, Z. M.; Aljelawi, O. H.; Hamadan, S. D.; Almashhadani, H. A.; Kadhim, M. M. HOMO-LUMO Energies and Geometrical Structures Effecton Corrosion Inhibition for Organic Compounds Predict by DFT and PM3 Methods. *NeuroQuantology* **2020**, *18* (1), 37–45.

26. Hadisaputra, S.; Asnawati, D.; Iskandar, Z. Prediction of Imidazole Corrosion Inhibition Efficiency on Carbon Steel Based on Density Functional Theory. **2019**, 519–533.
27. Belghiti, M. E.; Echihi, S.; Dafali, A.; Karzazi, Y.; Bakasse, M.; Elalaoui-Elabdallaoui, H.; Olasunkanmi, L. O.; Ebenso, E. E.; Tabyaoui, M. Computational Simulation and Statistical Analysis on the Relationship between Corrosion Inhibition Efficiency and Molecular Structure of Some Hydrazine Derivatives in Phosphoric Acid on Mild Steel Surface. *Appl. Surf. Sci.* **2019**, 491 (May), 707–722.
28. Azuxetullatif; Emriadi; Syukri; Untari, P. Mempelajari Senyawa Mirisitrin Dengan Penambahan Substituen NH<sub>2</sub>, NO<sub>2</sub>, Dan CH<sub>3</sub> Sebagai Inhibitor Korosi Menggunakan Metode Density Fuctional Theory (DFT). *Chempublish J.* **2020**, 5 (2), 166–178.
29. Ebenso, E. E.; Isabirye, D. A.; Eddy, N. O. Adsorption and Quantum Chemical Studies on the Inhibition Potentials of Some Thiosemicarbazides for the Corrosion of Mild Steel in Acidic Medium. *Int. J. Mol. Sci.* **2010**, 11 (6), 2473–2498.
30. Obi-Egbedi, N. O.; Ojo, N. D. Computational Studies of the Corrosion Inhibition Potentials of Some Derivatives of 1H-Imidazo [4, 5-F] [1, 10] Phenanthroline. *J. Sci. Res.* **2015**, 14, 50–56.
31. Guo, L.; Safi, Z. S.; Kaya, S.; Shi, W.; Tüzün, B.; Altunay, N.; Kaya, C. Anticorrosive Effects of Some Thiophene Derivatives against the Corrosion of Iron: A Computational Study. *Front. Chem.* **2018**, 6 (MAY), 1–12.
32. Erazua, E. A.; Adeleke, B. B. A Computational Study of Quinoline Derivatives as Corrosion Inhibitors for Mild Steel in Acidic Medium. *J. Appl. Sci. Environ. Manag.* **2019**, 23 (10), 1819–1824.
33. Erdoğan, Ş.; Safi, Z. S.; Kaya, S.; Işın, D. Ö.; Guo, L.; Kaya, C. A Computational Study on Corrosion Inhibition Performances of Novel Quinoline Derivatives against the Corrosion of Iron. *J. Mol. Struct.* **2017**, 1134, 751–761.
34. Wazzan, N. A.; Mahgoub, F. M. DFT Calculations for Corrosion Inhibition of Ferrous Alloys by Pyrazolopyrimidine Derivatives. *Open J. Phys. Chem.* **2014**, 04 (01), 6–14.
35. Rohiman, I. H.; Hadisaputra, S.; Asnawati, D. Kajian Teoritis Dan Eksperimen Efisiensi Senyawa Pinostrobin Sebagai Inhibitor Korosi. **2018**, No. 2.
36. Ramadhan, R. G.; Fadli, M. Pemanfaatan Momilakton Sebagai Inhibitor Korosi

- Besi Ramah Lingkungan: Metode Komputasi. *Lkti* **2022**, 33 (1), 1–12.
37. Imelda, R. A. P. Optimalisasi Struktur  $\Pi$ -Konjugasi Pada Zat Warna Organik Tipe D- $\Pi$ -A. *J. Res. Educ. Chem.* **2020**, 2 (2), 61.
38. Verma, D. K. Density Functional Theory (DFT) as a Powerful Tool for Designing Corrosion Inhibitors in Aqueous Phase. *Adv. Eng. Test.* **2018**.
39. Sinurat, M. R.; Rahmayanti, Y.; Rizarullah\*, R. Uji Aktivitas Antidiabetes Senyawa Baru Daun Yakon (*Smallanthus Sonchifolius*) Sebagai Inhibitor Enzim DPP-4: Studi in Silico. *J. IPA Pembelajaran IPA* **2021**, 5 (2), 138–150.
40. Ouakki, M.; Galai, M.; Rbaa, M.; Abousalem, A. S.; Lakhrissi, B.; Cherkaoui, M. Quantum Chemical and Experimental Evaluation of the Inhibitory Action of Two Imidazole Derivatives on Mild Steel Corrosion in Sulphuric Acid Medium. **2019**, 5 (August).
41. Anshar, A. M.; Santosa, S. J.; Sudiono, S. Kapasitas Dan Energi Adsorpsi Humin Terhadap Eosin. *Al Kim.* **2015**, 3 (2), 1–14.

