

## DAFTAR PUSTAKA

1. Anggraini, L.; Emriadi; Alif, A.: The extract of siamih (*Ageratum conyzoides L*) leaf as a green eco-friendly corrosion inhibitor for the mild steel St. 37 in HCl solution. *International Journal of Research and Review* 2020, 7, 480–488.
2. Yetri, Y.; Gunawarman; Emriadi; Novesar, J.: Theobroma cacao extract peels (TCPE) green inhibitor to recovery the mechanical properties of mild steel after corrosion. *Journal of Engineering and Applied Sciences* 2017, 12, 5325–5332.
3. Kumar, H.; Yadav, V.: Highly efficient and eco-friendly acid corrosion inhibitor for mild steel: experimental and theoretical study. *Journal of Molecular Liquids* 2021, 335, 116220.
4. Shahmoradi, A. R.; Talebibahmanbigloo, N.; Javidparvar, A. A.; Bahlakeh, G.; Ramezan-zadeh, B.: Studying the adsorption/inhibition impact of the cellulose and lignin compounds extracted from agricultural waste on the mild steel corrosion in HCl solution. *Journal of Molecular Liquids* 2020, 304, 112751.
5. Gao, C.; Zhao, X.; Liu, K.; Dong, X.; Wang, S.; Kong, F.: Construction of eco-friendly corrosion inhibitor lignin derivative with excellent corrosion-resistant behavior in hydrochloric acid solution. *Materials and Corrosion* 2020, 71, 1903–1912.
6. Zhang, W.; Ma, Y.; Chen, L.; Wang, L.; Wu, Y.; Li, H.: Aloe polysaccharide as an eco-friendly corrosion inhibitor for mild steel in simulated acidic oil field water: experimental and theoretical approaches. *Journal of Molecular Liquids* 2020, 307, 112950.
7. Shivakumar, M.; Dharmaprakash, M. S.; Manjappa, S.; Nagashree, K. L.: Corrosion inhibition performance of lignin extracted from black liquor on mild steel in 0,5 M  $H_2SO_4$  acidic media. *Portugaliae Electrochimica Acta* 2017, 35, 351–359.
8. Yahya, S.; Othman, N. K.; Ismail, M. C.: Corrosion inhibition of steel in multiple flow loop under 3,5% NaCl in the presence of rice straw extracts, lignin and ethylene glycol. *Engineering Failure Analysis* 2019, 100, 365–380.
9. Rahayu, P. P.; Sundari, C. D. D.; Farida, I.: Corrosion inhibition using lignin of sugarcane bagasse. *IOP Conference Series: Materials Science and Engineering* 2018, 434, 012087.
10. El-Deeb, M. M.; Ads, E. N.; Humaidi, J. R.: Evaluation of the modified extracted lignin from wheat straw as corrosion inhibitors for aluminum in alkaline solution. *International Journal of Electrochemical Science* 2018, 13, 4123–4138.
11. Alaneme, K. K.; Olusegun, S. J.: Corrosion inhibition performance of lignin extract of sun flower (*Tithonia diversifolia*) on medium carbon low alloy steel immersed in  $H_2SO_4$  solution. *Leonardo Journal of Sciences* 2012, 20, 59–70.
12. Rozi, S.; Emriadi; Stiadi, Y.: Pemanfaatan ekstrak etanol kulit jengkol (*Pithecellobium jiringa*) sebagai inhibitor korosi baja St. 37 dalam medium asam klorida. *Jurnal Kimia Unand* 2014, 3, 39–47.
13. Hidayah, N.; Lubis, R.; Wirawan, K. G.; Suharti, S.: Phenotypic identification, nutrients content, bioactive compounds of two jengkol (*Archidendron jiringa*) varieties from Bengkulu, Indonesia and their potentials as ruminant feed. *Biodiversitas* 2019, 20, 1671–1680.
14. Sedik, A.; Lerari, D.; Salci, A.; Athmani, S.; Bachari, K.; Gecibesler, H.; Solmaz, R.: Dardagan fruit extract as eco-friendly corrosion inhibitor for mild steel in 1 M HCl: electrochemical and surface morphological studies. *Journal of the Taiwan Institute of Chemical Engineers* 2020, 107, 189–200.

15. Abeng, F. E.; Ikpi, M. E.; Ushie, O. A.; Anadebe, V. C.; Nyong, B. E.; Obeten, M. E.; Okafor, N. A.; Chukwuike, V. I.; Nkom, P. Y.: Insight into corrosion inhibition mechanism of carbon steel in 2 M HCl electrolyte by eco-friendly based pharmaceutical drugs. *Chemical Data Collections* 2021, 34, 100722.
16. Salleh, S. Z.; Yusoff, A. H.; Zakaria, S. K.; Taib, M. A. A.; Abu Seman, A.; Masri, M. N.; Mohamad, M.; Mamat, S.; Ahmad Sobri, S.; Ali, A.; Teo, P. Ter.: Plant extracts as green corrosion inhibitor for ferrous metal alloys: a review. *Journal of Cleaner Production* 2021, 304, 127030.
17. Umoren, S. A.; Solomon, M. M.; Obot, I. B.; Suleiman, R. K.: A critical review on the recent studies on plant biomaterials as corrosion inhibitors for industrial metals. *Journal of Industrial and Engineering Chemistry* 2019, 76, 91–115.
18. William; Callister, J.; G, D.; Rethwisch. *Materials science and engineering - an introduction*; 2014; John Wiley & Sons Inc; United States of America, 2014.
19. Wang, Q.; Tan, B.; Bao, H.; Xie, Y.; Mou, Y.; Li, P.; Chen, D.; Shi, Y.; Li, X.; Yang, W.: Evaluation of *Ficus tikoua* leaves extract as an eco-friendly corrosion inhibitor for carbon steel in HCl media. *Bioelectrochemistry* 2019, 128, 49–55.
20. Dwivedi, D.; Lepková, K.; Becker, T.: Carbon steel corrosion: a review of key surface properties and characterization methods. *RSC Advances* 2017, 7, 4580–4610.
21. Bhardwaj, N.; Sharma, P.; Singh, K.; Rana, D.; Kumar, V. *Phyllanthus emblica* seed extract as corrosion inhibitor for stainless steel used in petroleum industry (SS-410) in acidic medium. *Chemical Physics Impact* 2021, 3, 100038.
22. Kusumattaqin, F.; Florenzia, F.: Pengaruh konsentrasi ekstrak kulit jengkol (*Pithecellobium jiringa*) sebagai inhibitor korosi pada logam baja SS400 dalam media artificial brine water. 2022, 2, 1–6.
23. Kulkarni, P.; Ponnappa, C. B.; Doshi, P.; Rao, P.; Balaji, S.: Lignin from termite frass: a sustainable source for anticorrosive applications. *Journal of Applied Electrochemistry* 2021, 51, 1491–1500.
24. Altwaiq, A. mnim; Khouri, S. J.; Al-luaibi, S.; Lehmann, R.; Drücker, H.; Vogt, C.: The role of extracted alkali lignin as corrosion inhibitor. *Journal of Materials and Environmental Science* 2011, 2, 259–270.
25. Emriadi; Yulistia, V.; Aziz, H.: Corrosion inhibition of mild steel in hidrochloric acid solution by *Gnetum gnemon*. L peel extract as green inhibitor. *Der Pharma Chemica* 2018, 10, 79–85.
26. El-Hashemy, M. A.; Sallam, A. The inhibitive action of *Calendula officinalis* flower heads extract for mild steel corrosion in 1 M HCl solution. *Journal of Materials Research and Technology* 2020, 9, 13509–13523.
27. Anadebe, V. C.; Onukwuli, O. D.; Omotomiwa, M.; Okafor, N. A.: Experimental, theoretical modeling and optimization of inhibition efficiency of *Pigeon pea* leaf extract as anti-corrosion agent of mild steel in acid environment. *Materials Chemistry and Physics* 2019, 233, 120–132.
28. Stiadi, Y.; Efdi, M.; Aziz, H.; Emriadi.: *Gleichenia linearis* Burm. leaf extract as corrosion inhibitor of mild steel in hydrochloric acid medium. *International Journal of Corrosion and Scale Inhibition* 2020, 9, 1498–1515.
29. Stiadi, Y.; Rahmayeni; Rahmawati, L.; Efdi, M.; Aziz, H.; Emriadi.: *Mangifera odorata* griff seed extract as corrosion inhibitor of mild steel in hydrochloric acid medium. *Rasayan Journal of Chemistry* 2020, 13, 230–239.
30. Hossain, N.; Chowdhury, M. A.; Iqbal, A. K. M. P.; Islam, M. S.; Sheikh Omar, N. Y.; Saifullah, A. Z. A.: *Paederia foetida* leaves extract as a green corrosion inhibitor for mild steel in hydrochloric acid solution. *Current Research in Green and Sustainable Chemistry* 2021, 4, 100191.

31. Emriadi; Untari, P.; Efdi, M.: Leave extract of *Syzygium malaccenseas* green inhibitor of mild steel in acidic medium. *Rasayan Journal of Chemistry* 2021, 14, 569–577.
32. Hossein, M.; Omidali, F.; Mahdi, M.: *Turnip* peel extract as green corrosion bio-inhibitor for copper in 3,5 % NaCl solution. *Materials Chemistry and Physics* 2022, 286, 126150.
33. Farhadian, A.; Rahimi, A.; Safaei, N.; Shaabani, A.; Abdouss, M.; Alavi, A.: A theoretical and experimental study of castor oil-based inhibitor for corrosion inhibition of mild steel in acidic medium at elevated temperatures. *Corrosion Science* 2020, 175, 108871.
34. Kathiravan, S.; Jyothi, S.; Ayyannan, G.; Ravichandran, J.; Raja, G.: Inhibitory action of aqueous *Ruellia tuberosa* L leaves extract on the corrosion of copper in HCl solution. *Journal of the Indian Chemical Society* 2021, 98, 100207.
35. Khoshang, H.; Ghaffarinejad, A.: Sunflower petals extract as a green, eco-friendly and effective corrosion bioinhibitor for carbon steel in 1 M HCl solution. *Chemical Data Collections* 2022, 37, 100799.
36. Britto, E. De; Spinelli, A.: Application of *Hymenaea stigonocarpa* fruit shell extract as eco-friendly corrosion inhibitor for steel in sulfuric acid. *Journal of the Taiwan Institute of Chemical Engineers* 2020, 116, 215–222.
37. Aigbogun, J. A.; Adebayo, M. A.: Green inhibitor from *Thaumatococcus daniellii* Benn for corrosion mitigation of mild steel in 1 M HCl. *Current Research in Green and Sustainable Chemistry* 2021, 4, 100201.
38. Parthipan, P.; Cheng, L.; Rajasekar, A.: *Glycyrrhiza glabra* extract as an eco-friendly inhibitor for microbiologically influenced corrosion of API 5LX carbon steel in oil well produced water environments. *Journal of Molecular Liquids* 2021, 333, 115952.
39. Hussin, M. H.; Abdul, A.; Nasir, M.; Ibrahim, M.; Brosse, N.: The capability of ultrafiltrated alkaline and organosolv oil palm (*Elaeis guineensis*) Fronds lignin as green corrosion inhibitor for mild steel in 0,5 M HCl solution. *Measurement* 2016, 78, 90–103.
40. Zuo, X.; Li, W.; Luo, W.; Zhang, X.; Qiang, Y.; Zhang, J.; Li, H.; Tan, B.: Research of *Lilium brownii* leaves extract as a commendable and green inhibitor for X70 steel corrosion in hydrochloric acid. *Journal of Molecular Liquids* 2021, 321, 114914.
41. Rajamohan, N.; Said, F.; Said, Z.; Shibli, A.; Rajasimman, M.: Eco-friendly biomass from *Ziziphus spina-christi* for protection of carbon steel in acidic conditions - parameter effects and corrosion mechanism studies. *Chemosphere* 2022, 291, 132756.
42. Berrissoul, A.; Ouarhach, A.; Benhiba, F.; Romane, A.; Zarrouk, A.; Guenbour, A.; Dikici, B.; Dafali, A.: Evaluation of *Lavandula mairei* extract as green inhibitor for mild steel corrosion in 1 M HCl solution. Experimental and Theoretical Approach. *Journal of Molecular Liquids* 2020, 313, 113493.
43. Bhardwaj, N.; Sharma, P.; Kumar, V.: *Triticum aestivum* extract as corrosion inhibitor for stainless steel (SS-410) in acidic media: experimental and theoretical study. *Current Research in Green and Sustainable Chemistry* 2021, 4, 100189.