

DAFTAR PUSTAKA

- (1) Zhang, W.; Wu, Y.; Li, H. Apostichopus Japonicus Polysaccharide as Efficient Sustainable Inhibitor for Mild Steel against Hydrochloric Acid Corrosion. *Journal of Molecular Liquids*. 2021, 321, 114923.
- (2) Tan, B.; Xiang, B.; Zhang, S.; Qiang, Y.; Xu, L.; Chen, S.; He, J. Papaya Leaves Extract as a Novel Eco-Friendly Corrosion Inhibitor for Cu in H₂SO₄ Medium. *Journal Colloid Interface Science*. 2021, 582, 918–931.
- (3) Yetri, Y.; Emriadi; Jamarun, N.; Gunawarman. Corrosion Protection Utilizing Ag Layer Cu Coated AZ31 Mg Alloy. *Asian Journal of Chemistry*. 2015, 27, 875–881.
- (4) Shahmoradi, A. R.; Talebibahmanbigloo, N.; Javidparvar, A. A.; Bahlakeh, G.; Ramezanzadeh, 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) Mao, T.; Huang, H.; Liu, D.; Shang, X.; Wang, W.; Wang, L. Novel Cationic Gemini Ester Surfactant as an Efficient and Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl Solution. *Journal of Molecular Liquids*. 2021, 339, 117174.
- (6) 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.
- (7) Shang, J.; Flury, M.; Harsh, J. B.; Zollars, R. L. Comparison of Different Methods to Measure Contact Angles of Soil Colloids. *Journal Colloid Interface Science*. 2008, 328, 299–307.
- (8) 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 Research and Review*. 2020, 7, 480–488.
- (9) Emriadi; Untari, P.; Efdi, M. Leave Extract of *Syzygium Malaccense* Green Inhibitor of Mild Steel in Acidic Medium. *Rasayan Journal of Chemistry*. 2021, 14, 569–577.
- (10) Emriadi; Yulistia, V.; Aziz, H. Corrosion Inhibition of Mild Steel in Hydrochloric Acid Solution by *Gnetum Gnemon*. L Peel Extract as Green Inhibitor. *Der Pharma Chemistry*. 2018, 10, 79–85.
- (11) Komalasari; Utami, S. P.; Fermi, M. I.; Aziz, Y.; Irianti, R. S. Corrosion Control of Carbon Steel Using Inhibitor of Banana Peel Extract in Acid Diluted Solutions. *IOP Conferences Series : Materials Science Engineering*. 2018, 345, 0–8.
- (12) Vorobyova, V.; Skiba, M.; Gnatko, E. Agri-Food Wastes Extract as Sustainable-Green Inhibitors Corrosion of Steel in Sodium Chloride Solution: A Close Look at the Mechanism of Inhibiting Action. *South African Journal Chemical Engineering*. 2023, 43, 273–295.
- (13) Dwivedi, D.; Lepková, K.; Becker, T. Carbon Steel Corrosion: A Review of Key Surface Properties and Characterization Methods. *RSC Advances*. 2017, 7, 4580–4610.
- (14) Komalasari; Utami, S. P.; Fermi, M. I.; Aziz, Y.; Irianti, R. S. Corrosion Control of Carbon Steel Using Inhibitor of Banana Peel Extract in Acid Diluted Solutions. *IOP Conferences Series : Materials Science Engineering*. 2018, 345.
- (15) Deyab, M. A.; Zaky, M. T.; Nessim, M. I. Inhibition of Acid Corrosion of Carbon Steel Using Four Imidazolium Tetrafluoroborates Ionic Liquids. *Journal of Molecular Liquids*. 2017, 229, 396–404.
- (16) Hamadi, L.; Mansouri, S.; Oulmi, K.; Kareche, A. The Use of Amino Acids as Corrosion Inhibitors for Metals: A Review. *Egyptian Journal of Petroleum*. 2018, 27, 1157–1165.

- (17) Shahini, M. H.; Ramezanzadeh, B.; Mohammadloo, H. E. Recent Advances in Biopolymers/Carbohydrate Polymers as Effective Corrosion Inhibitive Macromolecules: A Review Study from Experimental and Theoretical Views. *Journal of Molecular Liquids*. 2021, 325, 115110.
- (18) Zhang, A.; Wang, Y.; Wang, H. Preparation of Inorganic-Polymer Nano-Emulsion Inhibitor for Corrosion Resistance of Steel Reinforcement for Concrete. *Alexandria Engineering Journal*. 2022.
- (19) Xhanari, K.; Finšgar, M.; Knez Hrnčič, M.; Maver, U.; Knez, Ž.; Seiti, B. Green Corrosion Inhibitors for Aluminium and Its Alloys: A Review. *RSC Advances*. 2017, 7, 27299–27330.
- (20) Kabir Ahmad, R.; Anwar Sulaiman, S.; Yusup, S.; Sham Dol, S.; Inayat, M.; Aminu Umar, H. Exploring the Potential of Coconut Shell Biomass for Charcoal Production. *Ain Shams Engineering Journal*. 2022, 13.
- (21) Suhartana, S. Pemanfaatan Sekam Padi Sebagai Bahan Baku Arang Aktif Dan Aplikasinya Untuk Penjernihan Air Sumur Di Desa Asinan Kecamatan Bawen Kabupaten Semarang. *Jurnal Kimia Sains dan Aplikasi*. 2007, 10, 67–71.
- (22) Nurhilal, O.; Suryaningsih, S. Karakterisasi Biobriket Campuran Serbuk Kayu Dan Tempurung Kelapa. *Jurnal Material dan Energi Indonesia*. 2017, 07, 13–16.
- (23) Shahmoradi, A. R.; Talebibahmanbigloo, N.; Javidparvar, A. A.; Bahlakeh, G.; Ramezanzadeh, 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.
- (24) Akbarzadeh, E.; Ibrahim, M. N. M.; Rahim, A. A. Monomers of Lignin as Corrosion Inhibitors for Mild Steel: Study of Their Behaviour by Factorial Experimental Design. 2012, 47, 302–312.
- (25) Kong, L.; Adidharma, H. A New Adsorption Model Based on Generalized van Der Waals Partition Function for the Description of All Types of Adsorption Isotherms. *Chemical Engineering Journal*. 2019, 375, 122112.
- (26) Zhang, Z.; Ba, H.; Wu, Z. Sustainable Corrosion Inhibitor for Steel in Simulated Concrete Pore Solution by Maize Gluten Meal Extract: Electrochemical and Adsorption Behavior Studies. *Construction Building Materials*. 2019, 227, 117080.
- (27) 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 H₂SO₄ Acidic Media. *Portugaliae Electrochimica. Acta* 2017, 35, 351–359.
- (28) Fiori-Bimbi, M. V.; Alvarez, P. E.; Vaca, H.; Gervasi, C. A. Corrosion Inhibition of Mild Steel in HCl Solution by Pectin. *Corrosion Science*. 2015, 92, 192–199.
- (29) Xu, X.; Singh, A.; Sun, Z.; Ansari, K. R.; Lin, Y. Theoretical, Thermodynamic and Electrochemical Analysis of Biotin Drug as an Impending Corrosion Inhibitor for Mild Steel in 15% Hydrochloric Acid. *Royal Society Open Science*. 2017, 4.
- (30) Romli, N. I.; Saldi, A.; Nugroho, A. A.; Nurhandoko, B. E. B.; Martha, R. Contact Angle Batuan Napal Formasi Kerek Jawa Timur. 2015, 62–65.
- (31) Ramaiah, G. B.; Mekonnen, S.; Solomon, E.; Melese, B.; Rao, K. P. Evaluation of Contact Angle of Water Proof Coated Fabric Made from Melt-Blown Polyester Non-Woven and Acrylic Polymeric Materials. *Journal Physics Conferences Series*. 2021, 1913.
- (32) Ding, R.; Wu, H.; Thunga, M.; Bowler, N.; Kessler, M. R. Processing and Characterization of Low-Cost Electrospun Carbon Fibers from Organosolv Lignin/Polyacrylonitrile Blends. *Carbon N. Y.* 2016, 100, 126–136.
- (33) Chigondo, M.; Chigondo, F. Recent Natural Corrosion Inhibitors for Mild Steel : An Overview. 2016, 2016.

- (34) Bhawsar, J.; Jain, P. K.; Jain, P. Experimental and Computational Studies of Nicotiana Tabacum Leaves Extract as Green Corrosion Inhibitor for Mild Steel in Acidic Medium. *Alexandria Engineering Journal*. 2015, 54, 769–775.
- (35) Untari, P.; Efdi, M. Efek Sinergetik Ekstrak Daun Jambu Bol (Syzygium Malaccense) Dan Iodida Terhadap Korosi Baja Dalam Larutan Asam. 2021, 5, 179–193.
- (36) Ragadhita, R.; Bayu, A.; Nandiyanto, D. Indonesian Journal of Science & Technology How to Calculate Adsorption Isotherms of Particles Using Two-Parameter Monolayer Adsorption Models and Equations. 2021, 6, 205–234.
- (37) Basik, M.; Mobin, M. Chondroitin Sulfate as Potent Green Corrosion Inhibitor for Mild Steel in 1 M HCl. *Journal Molecular Structure*. 2020, 1214, 128231.
- (38) Haldhar, R.; Prasad, D.; Saxena, A.; Kumar, R. Experimental and Theoretical Studies of Ficus Religiosa as Green Corrosion Inhibitor for Mild Steel in 0.5 M H₂SO₄ Solution. *Sustainable Chemical Pharmacy*. 2018, 9, 95–105.
- (39) Wang, D. I. Sustainable Corrosion Protection for Metallic Materials by Mussel Adhesive Protein Modified Lignin Film. 2020.
- (40) Hassannejad, H.; Nouri, A. Sunflower Seed Hull Extract as a Novel Green Corrosion Inhibitor for Mild Steel in HCl Solution. *Journal of Molecular Liquids*. 2018, 254, 377–382.
- (41) Chen, S.; Chen, S.; Zhu, B.; Huang, C.; Li, W. Magnolia Grandi Fl Ora Leaves Extract as a Novel Environmentally Friendly Inhibitor for Q235 Steel Corrosion in 1 M HCl: Combining Experimental and Theoretical Researches. *Journal of Molecular Liquids*. 2020, 311, 113312.
- (42) Belakhdar, A.; Ferkous, H.; Djellali, S.; Sahraoui, R.; Lahbib, H.; Ben, Y.; Erto, A.; Balsamo, M.; Benguerba, Y. Computational and Experimental Studies on the Efficiency of Rosmarinus of Fi Cinalis Polyphenols as Green Corrosion Inhibitors for XC48 Steel in Acidic Medium. *Colloids Surfaces A* 2020, 606, 125458.
- (43) Dehghani, A.; Bahlakeh, G.; Ramezanzadeh, B.; Ramezanzadeh, M. Potential Role of a Novel Green Eco-Friendly Inhibitor in Corrosion Inhibition of Mild Steel in HCl Solution: Detailed Macro/Micro-Scale Experimental and Computational Explorations. *Construction Building Materials*. 2020, 245, 118464.
- (44) Kalkhambkar, A. G.; Rajappa, S. K. Effect of Schiff 's Bases on Corrosion Protection of Mild Steel in Hydrochloric Acid Medium: Electrochemical , Quantum Chemical and Surface Characterization Studies. *Chemical Engineering Journal Advances*. 2022, 12, 100407.
- (45) Pulluparampil, Z.; Rajan, K.; Augustine, C.; Joseph, B.; John, S. Heliyon Corrosion Inhibition of Mild Steel Using Poly (2-Ethyl -2-Oxazoline) in 0.1 M HCl Solution. *Heliyon* 2020, 6, e05560.