

DAFTAR PUSTAKA

- Adler, T.A., Flitton, M.K.A., Agarwala, V.S., Andryushchenko, T.N., Arps, P.J., Aylor, D., 2003, *Corrosion : Fundamentals, Testing, and Protection*, Edisi Volume 13A, Engineering Materials, The Materials Information Company.
- Agusriyanto, F.N., 2020, Pengaruh Konsentrasi Inhibitor Obat Jenis Amlodipine Besylate Dan Ph Terhadap Perlindungan Korosi Baja Karbon Rendah Di Media Hcl, Institut Teknologi Sepuluh Nopember.
- Akbar, Y.A., Ishak, I., Zulnazri, Z., Dewi, R., Nurlaila, R., 2021, Pemanfaatan Ekstrak Daun Rambutan (*Nephelium Lappaceum*) Sebagai Inhibitor Korosi Pada Plat Besi (Steel) Dalam Media Air Laut, *Chemical Engineering Journal Storage (CEJS)*, Vol. 1, DOI: 10.29103/cejs.v1i3.5702.
- Aprilyanti, S., 2020, *Kimia Terapan (Aplikasi untuk Teknik Mesin)*, CV. Sarnu Untung.
- Arora, D.S.D.D.B., 2014, XRD e-Book 1, *Lab-training.com*, Hal. 1–54.
- Bardal, E., 2003, *Corrosion and Protection*, Digital Repository Universitas Jember.
- Budi, E., 2016, Potensi Pembentukan Lapisan Super Dan Ultra Keras Senyawa Komposit Nitrida Menggunakan Kaidah Elektrodepositi, *Spektra: Jurnal Fisika dan Aplikasinya*, Vol. 1, Hal. 187–194, DOI: 10.21009/spektra.012.14.
- Bunaciu, A.A., Udriștioiu, E. gabriela, Aboul-Enein, H.Y., 2015, *X-Ray Diffraction: Instrumentation and Applications*, Critical Reviews in Analytical Chemistry, Vol. 45, Hal. 289–299, DOI: 10.1080/10408347.2014.949616.
- Dahlan, D., 2009, Electrodeposition of Cu₂O Particles by Using Electrolyte Solution Containing Glucopone as Surfactant, *Jurnal Ilmu Fisika (JIF)*, Vol. 1 No. 2, Hal. 18–20.
- Dahlan, D., Lubis, F., Puryanti, D., 2024, Electrodeposition of Copper Layer with Mangrove Bark Extract Additive as an Inhibitor for the Application of Anti Corrosion Coating, *AIP Publishing*.
- Dariva, C.G., Galio, A.F., 2014, *Corrosion Inhibitors – Principles, Mechanisms, and Applications.*, Universidade Federal do Pampa, Brazil.
- Darmawi, Dewi, T.K., Alian, H., Ginting, K., 2022, *Ahli Korosi Dasar*, UPT. Penerbit dan Percetakan Universitas Sriwijaya, Palembang.
- Davis, G.O., 2011, *Corrosion Control and Tactics*, Suncam online education course.
- Davis, J., 2000, *Corrosion Understanding the Basic*, ASM International.
- El-Housseiny, S., Abdel-Gaber, A.M., Rahal, H.T., Beqai, F.T., 2022, Eco-friendly corrosion inhibitor for mild steel in acidic media, *International Journal of Corrosion and Scale Inhibition*, Vol. 11, Hal. 1516–1538, DOI:

10.17675/2305-6894-2022-11-4-6.

- Fahrizal, Y., Sutjahjo, D.H., 2019, Pengendalian Korosi pada Baja Rendah Karbon (Mild Steel) dengan Inhibitor Ekstrak Tanin dari Daun Sirsak pada Media Air Laut dan Udara, *Jurnal Mahasiswa Unesa*, Hal. 9–16.
- Fontana, M.G., Greene, N.D., 1967, *Corrosion Engineering*, McGraw-Hill.
- Glasmeyer, U., 1989, *Production of stainless steel, MPT. Metallurgical plant and technology*, Vol. 12, Hal. 1–7.
- Gusty, S., Asriadi, M., Idrus, M., Iswady, Muslika, Yoom, L.I., K, A.P., Maharani, A.S.B., Sunusi, W. anggraeni, Fatmeriany, Putri, M.M., 2024, *Korosi dan Perlindungan Material*, Arsy Media, Makassar.
- Halimatuddahliana, 2003, *Pencegahan Korosi dan Scale pada Proses Produksi Minyak Bumi*, Tesis, Teknik Kimia, Universitas Sumatera Utara.
- Haryono, G., Sugiarto, B., Farid, H., 2010, Ekstrak Bahan Alam sebagai Inhibitor Korosi, *Prosiding Seminar Nasional Teknik Kimia “Kejuangan” Pengembangan Teknologi Kimia untuk Pengolahan Sumber Daya Alam Indonesia*, Hal. 1–6.
- Jones, D.A., 2007, *Principles and Prevention of Corrosion*, Prentice Hall.
- Koenen, A., Zölffel, M., 2020, *Microscopy for Dummies*, Wiley.
- Leach, R., 2016, *Optical Measurement of Surface Topography*, Springer.
- Loveanda, D.U., Dahlan, D., 2021, Sintesis Lapisan Antikorosi Menggunakan Tanin Ekstrak Daun Ketapang (*Terminalia Catappa L*) sebagai Inhibitor dengan Metode Elektrodepositasi dan Pencelupan, *Jurnal Fisika Unand*, Vol. 10, DOI: 10.25077/jfu.10.3.288-295.2021.
- McCafferty, E., 2010, *Introduction to Corrosion Science*, Edisi berilustrasi, Springer Science & Business Media, 2010.
- Metungku, N.A., Darwis, D., Sesu, E., 2017, Pemurnian Dan Karakterisasi Senyawa SiO₂ Berbasis Pasir Kuarsa Dari Desa Pendolo Kecamatan Pamona Selatan Kabupaten Poso, *Jurnal Gravitasi*, Vol. 16, Hal. 39–43.
- Mulyati, B., 2018, Pemanfaatan Ekstrak Daun Tembakau sebagai Inhibitor Korosi pada Logam Baja Karbon dan Aluminium Adhi, *CHEESA: Chemical Engineering Research Articles*, Vol. 1, Hal. 7–14.
- Murphy, D.B., Davidson, M.W., 2012, *Fundamentals of Light Microscopy and Electronic Imaging: Second Edition*, Wiley Blackwell.
- Obot, I.B., Onyeachu, I.B., Umoren, S.A., Quraishi, M.A., Sorour, A.A., Chen, T., Aljeaban, N., Wang, Q., 2020, High temperature sweet corrosion and inhibition in the oil and gas industry: Progress, challenges and future perspectives, *Journal of Petroleum Science and Engineering*, Vol. 185, Hal. 106469, DOI: 10.1016/j.petrol.2019.106469.
- Oktavia, N., Dahlan, D., 2024, Elektrodepositasi Lapisan Tembaga pada Baja SS-304

- dengan Larutan Elektrolit Mengandung Ekstrak Daun Binahong sebagai Inhibitor Korosi, *Jurnal Fisika Unand*, Vol. 13, Hal. 413–419, DOI: 10.25077/jfu.13.3.413-419.2024.
- Papavinasam, S., Doiron, A., Panneerselvam, T., Revie, R.W., 2007, Effect of Hydrocarbons on the Internal Corrosion of Oil and Gas Pipeline, *Journal Corrosion*, Vol. 63, Hal. 7.
- Pradityana, A., Shahab, A., Neorochim, L., Susanti, D., 2016, Effect of Temperature on the Application of Sarang Semut Extract for Environmentally Friendly Corrosion Inhibitor, *Journal of Corrosion*, Vol. 7.
- Prameswari, A., Dahlan, D., 2021, Pemanfaatan Ekstrak Daun Jambu Biji (Psidium juajava) sebagai Inhibitor Korosi Pada Baja, *Jurnal Fisika Unand*, Vol. 10, DOI: 10.25077/jfu.10.4.479-485.2021.
- Rahali, E., El-Bassi, L., Bousselmi, L., Alves, M.M., de Fátima Montemor, M., Akrout, H., 2023, Influence of sulfate-reducing bacteria on the biocorrosion of mild steel coated with hybrid polyetherimide-ZnO or CuO bilayer composites, *Comptes Rendus Chimie*, Vol. 26, Hal. 153–168, DOI: 10.5802/cr chim.227.
- Rasyad, A., Budiarto, B., 2018, Analisis Pengaruh Temperatur, Waktu, dan Kuat Arus Proses Elektroplating terhadap Kekuatan Tarik, Kekuatan Tekuk dan Kekerasan pada Baja Karbon Rendah, *Jurnal Rekayasa Mesin*, Vol. 9, Hal. 173–182, DOI: 10.21776/ub.jrm.2018.009.03.4.
- Răuță, D.I., Matei, E., Avramescu, S.M., 2025, Recent Development of Corrosion Inhibitors: Types, Mechanisms, Electrochemical Behavior, Efficiency, and Environmental Impact, *Technologies*, Vol.13, DOI:10.3390/technologies13030103.
- Rumiyanti, L., Rasitiani, A., Ginting Suka, E., 2019, Skrining Fitokimia Ekstrak Daun Sirsak (*Annona muricata*) Dan Pengaruhnya Terhadap Laju Korosi Baja Karbon ST 37, *Jurnal Teori dan Aplikasi Fisika*, Vol. 7, Hal. 1–6, DOI: 10.23960/jtaf.v7i1.1917.
- Sanjaya, A.S., Mardiah, M., Novianti, H.L., Fadilah, O.A., 2018, Penurunan Laju Korosi Logam Aluminium Menggunakan Inhibitor Alami, *Jurnal Chemurgy*, Vol. 2, Hal. 30, DOI: 10.30872/cmg.v2i1.2612.
- Sari, N.H., Suteja, Hidayatullah, S., 2021, *Pengantar Inhibitor Korosi Alami*, repository Deepublish, Mataram.
- Setyawan, P.R.P., 2018, Laju korosi Stainless Steel 304 pada larutan H₂SO₄, Skripsi , Departemen Teknik Mesin, Universitas Sanata Dharma.
- Shafira, R.D., Mulyana, A., Riza, M., 2022, Pengaruh Konsentrasi Inhibitor Ekstrak Daun Sirsak terhadap Laju Korosi Baja Karbon, *Jurnal Inovasi Ramah Lingkungan (JIRL)*, Vol. 3.
- Siregar, D., 2021, Elektrodeposisi Zn Dan Ekstrak Getah Merkubung (Macaranga Gigantea) Pada Baja Lunak Untuk Menginhibisi Korosi Dalam Larutan Asam Sulfat, Skripsi, Program Studi Kimia, Universitas Jambi.

- Sun, D., Wu, M., Xie, F., Gong, K., 2019, Hydrogen Permeation Behavior of X70 Pipeline Steel Simultaneously Affected by Tensile Stress and Sulfate-Reducing Bacteria, *International Journal of Hydrogen Energy.*, Vol. 44, Hal. 43.
- Sunarjono, H.H., 2005, *Sirsak dan Srikaya Budi daya untuk menghasilkan buah prima*, Penebar Swadaya.
- Taheri, P., Milošev, I., Meeusen, M., Kapun, B., White, P., Kokalj, A., Mol, A., 2020, On the importance of time-resolved electrochemical evaluation in corrosion inhibitor-screening studies, *npj Materials Degradation*, Vol. 4, Hal. 1–4, DOI: 10.1038/s41529-020-0116-z.
- Trethewey, K.R., Chamberlain, J., 2006, *Corrosion for Science and Engineering 3rd Edition.*, Longman.
- Tuthill, A.H., Covert, R.A., 2000, *Stainless Steels: An Introduction to Their Metallurgy and Corrosion Resistance*, Dairy, Food and Environmental Sanitation, Nickel Institute, Vol. 20, Hal. 506–517.
- Utomo, B., 2012, Jenis Korosi dan Penanggulangannya, *Kapal: Jurnal Ilmu Pengetahuan dan Teknologi Kelautan*, vol. 6, no. 2, pp. 138-141, <https://doi.org/10.14710/kpl.v6i2.2731>.
- Whydiantoro, D., Susandi, D., Sidik, A., 2019, Pengolahan Limbah Kulit Durian Menjadi Bio-Baterai Sebagai Energi Alternatif, *Journal Of Engineering and Sustainable Technology*, Vol. 5, Hal. 230–236.
- Wicaksono, G.S., Zubaidah, E., 2015, Pengaruh Karagenan Dan Lama Perebusan Daun Sirsak Terhadap Mutu Dan Karakteristik Jelly Drink Daun Sirsak, *Jurnal Pangan dan Agroindustri*, Vol. 3, Hal. 281–291.
- Wulandari, T., Asdim, A., Hafizah, M.A.E., 2023, Inhibition of Steel Corrosion Rate in Sulfuric Acid Solution with Various Concentrations Using Soursop (*Annona muricata L.*) Leaf Extract Inhibitor, *IJCA (Indonesian Journal of Chemical Analysis)*, Vol. 6, Hal. 97–105, DOI: 10.20885/ijca.vol6.iss2.art1.
- Yetri, Y., Mahaputri, S.A., Dahlan, D., 2019, Sintesa Lapisan Nikel (Ni) Pada Permukaan Baja Dengan Metode Elektrodepositi Dengan Penambahan Inhibitor Ekstrak Kulit Buah Kakao (*Theobroma Cacao*), *Jurnal Integrasi*, Vol. 11, DOI: 10.30871/ji.v5i2.1653.
- Zainuri, 2012, Uji XRD Dan XRF Pada Bahan Meneral (Batuan Dan Pasir) Sebagai Sumber Material Cerdas (Caco₃ Dan SiO₂), *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)*, ISSN: 2087-9946, Vol. 2, Hal. 20–29.