

DAFTAR PUSTAKA

- ASTM International D3359 – 17, 2017, Standard Test Methods for Rating Adhesion by Tape Test.
- ASTM International G 59 - 97, 2003, Standard Test Method for Conducting Potentiodynamic Polarization Resistance Measurements.
- ASTM International G102 – 89, 2015, Standard Practice for Calculation of Corrosion Rates and Related Information from Electrochemical Measurements.
- Ahmad, B., Ahmad, N. M., Yasir, M., Khan, Z. A., and Rafiq, S., 2019, High-Performance Anticorrosive Polyester Coatings on Mild Steel in Mixed Acid Mixtures Environments, *Advances in Polymer Technology*, 1-13.
- Athawale, A. A., and Pandit J. A., 2019, Unsaturated Polyester Resins, Blends, Interpenetrating Polymer Networks, Composites, And Nanocomposites: State Of The Art And New Challenges, book of Unsaturated Polyester Resins (1), 1-42.
- Badea, G. E., Caraban A., Sebesan M., Dzitac S, Cret P., and Setel A., 2010, Polarisation Measurements Used For Corrosion Rates Determination, *Journal Of Sustainable Energy*, **1**(1), 1-4.
- Birkholz, M., 2006. Principles of X-ray Diffraction, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.
- Bunaciu, A. A., Udristioiu, E. G., and Aboul-Enein, H. Y., 2015. X-Ray Diffraction: Intrumentation and Applications, *Critical Reviews in Analytical Chemistru*, **45**(4), 289-299.
- Callister Jr., W. D., and Rethwisch, D. G., 2018, *Material Science and Engineering*, Wiley, USA.
- Farag, M. M., 2014, *Materials and Process Selection For Engineering Design: Third Edition*, CRC Press, Florida, USA.
- Fatimah, S., Ragadhita, R., Husaeni, D. F. A., and Nandiyanto, A. B. D., 2022. How to Calculate Crystallite Size From X-Ray Diffraction (XRD) Using Scherrer Method, *ASEAN Journal of Science and Engineering*, **2**(1), 65-76.
- Fontana, M. G., 1987, *Corrosion Engineering: Third Edition*, McGraw-Hill Book Co, Singapore.
- Francis, R. A., 2017, *An Introduction To The Metallurgy Of Steel and Its Alloys*, Victoria, Australia.

- George, J., and Sabapathi, S. N., 2015, Cellulose Nanocrystals: Synthesis, Functional Properties, and Applications, *Nanotechnology, Science and Applications*, 45-54.
- Haq, M. I. U., 2007, Applications of Unsaturated Polyester Resins, *Russian Journal of Applied Chemistry*, **80**(7), 1256-1269.
- He, Y., Boluk, Y., Pan, J., Ahniyaz, A., Deltin, T., and Claesson, P. M., 2019, Corrosion Protective Properties of Cellulose Nanocrystals Reinforced Waterborne Acrylate-Based Composite Coating, *Corrosion Science*, 186-194.
- He, Y., Li, G., Hwang, K., Boluk, Y., and Claesson, P. M., 2021, Nano-Scale Mechanical and Wear Properties of A Corrosion Protective Coating Reinforced By Cellulose Nanocrystals – Initiation Of Coating Degradation, *Applied Surface Science*, **537**, 1-11.
- Heldtberg, M., MacLeod, I. D., and Richards, V. I., 2004, Corrosion and Cathodic Protection Of Iron In Seawater: A Case Study Of The James Matthews (1841), *Proceedings of Metal*, 75-87.
- Kelly, R. G., Scully, J. R., Shoesmith, D. W., and Buchheit, R. G., 2003. *Electrochemical Techniques in Corrosion Science and Engineering*, Marcel Dekker Inc., New York, USA.
- Khalifeh, A., 2019, Stress Corrosion Cracking Damages, *IntechOpen*, 1-20. DOI: <http://dx.doi.org/10.5772/intechopen.80826>.
- Khan, S. A., Khan, S. B., Khan, L. U., Farooq, A., Akhtar, K., and Asiri, A. M., 2018. *Fourier Transform Infrared Spectroscopy: Fundamentals and Application in Functional Groups and Nanomaterials Characterization*, Springer International Publishing AG, 329-344.
- Kumar, V., Pathak, P., and Bhardwaj, N. K., 2020, Waste Paper: An Underutilized But Promising Source For Nanocellulose Mining, *Waste Management*, **102**, 281-303.
- Mariano, M., Kissi, N. E., and Dufresna, A., 2014, Cellulose Nanocrystals and Related Nanocomposites: Review of Some Properties and Challenges, *Journal Of Polymer Science*, **52**, 791-806. DOI: 10.1002/polb.23490a
- McCafferty, 2010, *Introduction to Corrosion Science*, Springer, New York, USA.
- Nandi, S., and Guha, P., 2018, A Review On Preparation And Properties Of Cellulose Nanocrystal-Incorporated Natural Biopolymer. *Journal of Packaging Technology and Research*. doi: 10.1007/s41783-018-0036-3.
- Nandiyanto, A. B. D., Oktiani, R., and Ragadhita, R. 2019. How to Read and Interpret FT-IR Spectroscopy of Organic Material, *Indonesian Journal of Science & Technology*, **4**(1), 97-118.

- Nava, H., 2015, Polyesters, Unsaturated, Kirk-Othmer Encyclopedia of Chemical Technology, 1-26.
DOI:10.1002/0471238961.1615122519051212.a01.pub3
- Orazem, M. E., and Tribollet, E., 2008, Electrochemical Impedance Spectroscopy, Wiley, New Jersey, USA.
- Pizzi, A., and Mittal, K. L., 2003, Handbook of Adhesive Technology: Second Edition, Revised and Expanded, Marcel Dekker Inc., New York, USA.
- Popov, B.N., 2015, Corrosion Engineering: Principles and Solved Problems, Elsevier, Amsterdam, Netherlands.
- Rahmanto, W. H., Gunawan, and Nuryanto, R., 2002, Corrosion Rate of Copper and Iron in Seawater Based on Resistance Measurement, Journal of Coastal Development, **5**(2), 67-74.
- Rashidi, N., Alavi-Soltani, S., and Asmatulu, R. 2007, Crevice Corrosion Theory, Mechanisms and Prevention Methods, Proceedings of the 3rd Annual GRASP Symposium, Wichita State University, 215-216.
- Reddy, K.O., Shukla, M., Maheswari, C.U., Rajulu, A.V., Evaluation of mechanical behavior of chemically modified Borassus fruit short fiber/unsaturated polyester composites. Journal of Composite Materials 46(23) 2987–2998.
- Samsudin, S. N. F., H., Ahmad, Z., Bahrudin, A., Rahman, R., and Wahab., N. A., 2021, Mechanical, Adhesion and Corrosive Properties of Unsaturated Polyester-Graphene Coating Treated With Silane Coupling Agent on Metal Substrate, AIP Conference Proceedings, **2332**, 1-12.
- Tarng, W., Lin, Y., and Ou, K., 2021, A Virtual Experiment for Learning the Principle of Daniell Cell Based on Augmented Reality, Applied Sciences, **11**(762), 1-24.
- Trache, D., 2017, Microcrystalline Cellulose and Related Polymer Composites: Synthesis, Characterization and Properties, Handbook of Composites From Renewable Materials, 61–92. doi: 10.1002/9781119441632.ch3
- Trache, D., Hussin, M. H., Haafiz, M. M., and Thakur, V. K., 2017, Recent Progress in Cellulose Nanocrystals: Sources and Production, Nanoscale, **9**, 1763–1786. doi: 10.1039/c6nr09494e
- Trache, D., Tarchoun, A. F., Derradji, M., Hamidon, T. S., Masruchin, N., Brosse, N., and Hussin, M. H., 2020, Nanocellulose: From Fundamentals to Advanced Applications, Frontiers in Chemistry, **8**, 1-33.
- Trache, D., Tarchoun, A. F., Derradji, M., Mehelli, O., Hussin, M. H., and Bessa, W., 2020, Cellulose Fibers and Nanocrystals: Preparation, Characterization and Surface Modification, Functionalized Nanomaterials I, Taylor & Francis.

- Tritijanto, H., 2021, Analisis Korosieristik Korosi Pada Sambungan Las Pipa Baja Api 5L X – 52 di Lingkungan 3,5% NaCl Dan 3,5% NaCl + NaHCO₃, Beserta Pengendaliannya Menggunakan Molibdat, Tungstat dan Ethoxylated Fatty Amine, Disertasi, UGM, Yogyakarta.
- TQC 2017. TQC Cross Cut Adhesion Test KIT. <https://blog.naver.com/PostView.nhn?blogId=tqc-korea&logNo=221383993972> <diakses pada 3 April 2023>
- Utami, S. N. H., A. Maas, B. Radjagukguk, dan B. H. Purwanto. 2009. Sifat Fisik, Kimia dan FT-IR Spektrofotometri Gambut Hidrofibik Kalimantan Tengah. Jurnal Tanah Tropika, 14(2): 159-166.
- Yang, Y., Chen, Z., Zhang, J., Wang, G., Zhang, R., and Suo, D., 2019. Review Article: Preparation and Applications of the Cellulose Nanocrystal, International Journal of Polymer Science, 1-10.
- Zapata, F., Lopez-Fernandez, A., Ortega-Ojeda, F., Quintanilla, G., Garcia-Ruiz, C., and Montalvo, G., 2021, Introducing ATR-FT-IR Spectroscopy through Analysis of Acetaminophen Drugs: Practical Lessons for Interdisciplinary and Progressive Learning for Undergraduate Students, Journal of Chemical Education, 98, 2675-2686.