

### DAFTAR PUSTAKA

- Ali, A., Chiang, Y.W. and Santos, R.M. (2022) 'X-ray Diffraction Techniques for Mineral Characterization: A Review for Engineers of the Fundamentals, Applications, and Research Directions', *Minerals*, 12(2), p. 205. Available at: <https://doi.org/10.3390/min12020205>.
- Anzar, N. *et al.* (2020) 'Carbon nanotube - A review on Synthesis, Properties and plethora of applications in the field of biomedical science', *Sensors International*, 1, p. 100003. Available at: <https://doi.org/10.1016/j.sintl.2020.100003>.
- Aprilianti, R. *et al.* (2023) 'Green Synthesis Nanopartikel Karbon Aktif dari Limbah Tempurung Kelapa', *Jurnal Riset Fisika Indonesia*, 4(1), pp. 37–41. Available at: <https://doi.org/10.33019/jrfi.v4i1.4525>.
- Ariyoshi, K. *et al.* (2022) 'Electrochemical Impedance Spectroscopy Part 1: Fundamentals', *Electrochemistry*, 90(10), pp. 102007–102007. Available at: <https://doi.org/10.5796/electrochemistry.22-66071>.
- Chuang, W.-C. *et al.* (2020) 'Fabrication of Integrated Device Comprising Flexible Dye-sensitized Solar Cell and Graphene-doped Supercapacitor', *Sensors and Materials*, 32(6), p. 2077. Available at: <https://doi.org/10.18494/SAM.2020.2802>.
- Dewi, R., Azhari, A. and Nofriadi, I. (2021) 'Aktivasi Karbon dari Kulit Pinang dengan menggunakan Aktivator Kimia Koh', *Jurnal Teknologi Kimia Unimal*, 9(2), pp. 12–22. Available at: <https://doi.org/10.29103/jtku.v9i2.3351>.
- Eddy, D.R. *et al.* (2023) 'Heterophase Polymorph of TiO<sub>2</sub> (Anatase, Rutile, Brookite, TiO<sub>2</sub> (B)) for Efficient Photocatalyst: Fabrication and Activity', *Nanomaterials*, 13(4), p. 704. Available at: <https://doi.org/10.3390/nano13040704>.
- Elgrishi, N. *et al.* (2018) 'A Practical Beginner's Guide to Cyclic Voltammetry', *Journal of Chemical Education*, 95(2), pp. 197–206. Available at: <https://doi.org/10.1021/acs.jchemed.7b00361>.
- Frasnawati, E., Aritonang, A.B. and Syahbanu, I. (2019) 'Sintesis dan Karakterisasi TiO<sub>2</sub>/Ti Nanotube menggunakan Metode Anodisasi', *Jurnal Kimia Khatulistiwa*, 8(2), pp. 9-14. ISSN: 2303-1077.

- Hakim, L., Dirgantara, M. and Nawir, M. (2019) 'Karakterisasi Struktur Material Pasir Bongkahan Galian Golongan C Dengan Menggunakan X-Ray Diffraction (X-RD) Di Kota Palangkaraya', *Jurnal Jejaring Matematika dan Sains*, 1(1), pp. 44–51. Available at: <https://doi.org/10.36873/jjms.v1i1.136>.
- Hardi, A.D. *et al.* (2021) 'Pembuatan Karbon Aktif dari Tandan Kosong Kelapa Sawit sebagai Elektroda Superkapasitor', *Jurnal Fisika Unand*, 9(4), pp. 479–486. Available at: <https://doi.org/10.25077/jfu.9.4.479-486.2020>.
- Hidayat, A.D.S., Farid, M. and Wibisono, A.T. (2017) 'Karakterisasi Morfologi Sifat Akustik Dan Sifat Fisik Komposit Polypropylene Berpenguat Serat Dendrocalamus Asper Untuk Otomotif', *Jurnal Teknik ITS*, 6(2), pp. F344–F348. Available at: <https://doi.org/10.12962/j23373539.v6i2.25275>.
- Kenesi, A.G., Ghorbani, M. and Lashkenari, M.S. (2022) 'High electrochemical performance of PANI/CdO nanocomposite based on graphene oxide as a hybrid electrode materials for supercapacitor application', *International Journal of Hydrogen Energy*, 47(91), pp. 38849–38861. Available at: <https://doi.org/10.1016/j.ijhydene.2022.09.047>.
- Liu, Y. *et al.* (2023) 'State-of-health estimation of lithium-ion batteries based on electrochemical impedance spectroscopy: a review', *Protection and Control of Modern Power Systems*, 8(1), p. 41. Available at: <https://doi.org/10.1186/s41601-023-00314-w>.
- Magar, H.S., Hassan, R.Y.A. and Mulchandani, A. (2021) 'Electrochemical Impedance Spectroscopy (EIS): Principles, Construction, and Biosensing Applications', *Sensors*, 21(19), p. 6578. Available at: <https://doi.org/10.3390/s21196578>.
- Nithya, V.D. (2021) 'A review on holey graphene electrode for supercapacitor', *Journal of Energy Storage*, 44, p. 103380. Available at: <https://doi.org/10.1016/j.est.2021.103380>.
- Nurdiansah, H., Restu Dipakusuma, W. and Susanti, D. (2021) 'Pengaruh Variasi Temperatur Hidrotermal terhadap Struktur dan Sifat Kapasitif Carbon Nanotube (CNT) dengan Prekursor Ferrocene untuk Aplikasi Superkapasitor', *Jurnal Teknik ITS*, 9(2), pp. B140–B145. Available at: <https://doi.org/10.12962/j23373539.v9i2.59303>.
- Nurhasmia, N. (2021) 'studi penggunaan superkapasitor sebagai media penyimpanan energi', *Progressive Physics Journal*, 2(2), p. 79. Available at: <https://doi.org/10.30872/ppj.v2i2.770>.
- Nursiti, N. *et al.* (2018) 'Elektrosintesis Nanokomposit  $\alpha$ -MnO<sub>2</sub>/C dan Fabrikasinya untuk Aplikasi Superkapasitor', *Jurnal Chemurgy*, 2(1), p. 6. Available at: <https://doi.org/10.30872/cmg.v2i1.1631>.

- Pataya, S.A., Gareso, P.L. and Juarlin, E. (2016) 'Karakterisasi Lapisan Tipis Titanium Dioksida (TiO<sub>2</sub>) yang ditumbuhkan dengan Metode Spin Coating diatas Substrat'. *Jurnal Fisika*, Universitas Hasanuddin.
- Prayogatama, A., Nuryoto, N. and Kurniawan, T. (2022) 'Modifikasi Karbon Aktif dengan Aktivasi Kimia dan Fisika Menjadi Elektroda Superkapasitor', *JST (Jurnal Sains dan Teknologi)*, 11(1), pp. 47–58. Available at: <https://doi.org/10.23887/jstundiksha.v11i1.42849>.
- Rahman, Md.M. *et al.* (2021) 'Improvement of capacitive performance of polyaniline based hybrid supercapacitor', *Heliyon*, 7(7), p. e07407. Available at: <https://doi.org/10.1016/j.heliyon.2021.e07407>.
- Rathinavel, S., Priyadharshini, K. and Panda, D. (2021) 'A review on carbon nanotube: An overview of synthesis, properties, functionalization, characterization, and the application', *Materials Science and Engineering: B*, 268, p. 115095. Available at: <https://doi.org/10.1016/j.mseb.2021.115095>.
- Reghunath, S., Pinheiro, D. and Kr, S.D. (2021) 'A review of hierarchical nanostructures of TiO<sub>2</sub>: Advances and applications', *Applied Surface Science Advances*, 3, p. 100063. Available at: <https://doi.org/10.1016/j.apsadv.2021.100063>.
- Sakib, M.N. *et al.* (2021) 'A review of recent advances in manganese-based supercapacitors', *Journal of Energy Storage*, 44, p. 103322. Available at: <https://doi.org/10.1016/j.est.2021.103322>.
- Salleh, N.A. *et al.* (2023) 'Electrode polymer binders for supercapacitor applications: A review', *Journal of Materials Research and Technology*, 23, pp. 3470–3491. Available at: <https://doi.org/10.1016/j.jmrt.2023.02.013>.
- Sameeh, M.Y. (2023) 'An Overview of Nanoparticles from Medicinal Plants: Synthesis, Characterization and Bio-Applications', *Advances in Bioscience and Biotechnology*, 14(10), pp. 439–455. Available at: <https://doi.org/10.4236/abb.2023.1410030>.
- Setyoputra, A.D. *et al.* (2022) 'The Characterisation of MWCNT-rGO-TiO<sub>2</sub> Nanocomposite as Potential Electrode Material for Hybrid Supercapacitor', *International Journal of Electrochemical Science*, 17(5), p. 22053. Available at: <https://doi.org/10.20964/2022.05.10>.
- Sharma, S. and Chand, P. (2023) 'Supercapacitor and electrochemical techniques: A brief review', *Results in Chemistry*, 5, p. 100885. Available at: <https://doi.org/10.1016/j.rechem.2023.100885>.

- Sumadiyasa, M. and Manuaba, I.B.S. (2018) 'Determining Crystallite Size Using Scherrer Formula, Williamson-Hull Plot, and Particle Size with SEM', *BULETIN FISIKA*, 19(1), p. 28. Available at: <https://doi.org/10.24843/BF.2018.v19.i01.p06>.
- Syamboga, A. and Budianto, A. (2021) 'Review Karakterisasi Karbon Aktif dari Berbagai Jenis Serbuk Kayu', *Jurnal Tecnoscienza*, 6(1), pp. 1–12. Available at: <https://doi.org/10.51158/tecnoscienza.v6i1.443>.
- Tamara, G.J. *et al.* (2024) 'Karakteristik I-V Elektroda Superkapasitor berbasis Karbon Aktif Kulit Kacang Batik Kawangkoan'. *Jurnal Poltekstpaul*, 7(2). e-ISSN: 2721-9550.
- Venkatesan, N., Krishna, A. and Fathima, N.N. (2023) 'Leather solid waste derived activated carbon as a potential material for various applications: A review', *Journal of Analytical and Applied Pyrolysis*, 176, p. 106249. Available at: <https://doi.org/10.1016/j.jaap.2023.106249>.
- Vietanti, F. *et al.* (2021) 'Pengaruh Doping Nitrogen pada Matriks Reduced Graphene Oxide terhadap Sifat Kapasitif Superkapasitor', *Seminar Nasional Teknologi Industri Berkelanjutan I*, 1, pp. 378–385.
- Yuda, I.W.W. *et al.* (2021) 'Elektroda Superkapasitor berbahan Nanokomposit MnO<sub>2</sub>/AC dari Limbah Plastik dengan Teknik Elektrodeposisi', *Jurnal Integrasi Proses*, 10(2), p. 77. Available at: <https://doi.org/10.36055/jip.v10i2.12229>.
- Zhang, M. *et al.* (2023) 'Electrochemical Impedance Spectroscopy: A New Chapter in the Fast and Accurate Estimation of the State of Health for Lithium-Ion Batteries', *Energies*, 16(4), p. 1599. Available at: <https://doi.org/10.3390/en16041599>.
- Zia, A.I., and Mukhopadhyay, S.C., (2016) 'Elektrochemical Sensing: Carcinogens In Beverages, Smart Sensors, Measurements and Instrumentations, Springer International Publishing, Switzerland.