

DAFTAR PUSTAKA

- [1] J. Chen, J. Wu, X. Wang, A. Zhou, and Z. Yang, "Research progress and application prospect of solid-state electrolytes in commercial lithium-ion power batteries," *Energy Storage Mater*, vol. 35, pp. 70–87, 2021, doi: <https://doi.org/10.1016/j.ensm.2020.11.017>.
- [2] M. Fiedler *et al.*, "The role of nanoporous carbon materials for thiophosphate-based all solid state lithium sulfur battery performance," *Carbon N Y*, vol. 227, Jun. 2024, doi: [10.1016/j.carbon.2024.119252](https://doi.org/10.1016/j.carbon.2024.119252).
- [3] X. Han *et al.*, "COF-anchored design of nanoporous graphene membranes for ultrafast and selective organic separation," *J Memb Sci*, vol. 701, p. 122689, 2024, doi: <https://doi.org/10.1016/j.memsci.2024.122689>.
- [4] L. Elbinger, M. Enke, N. Ziegenbalg, J. C. Brendel, and U. S. Schubert, "Beyond lithium-ion batteries: Recent developments in polymer-based electrolytes for alternative metal-ion-batteries," Feb. 01, 2024, *Elsevier B.V.* doi: [10.1016/j.ensm.2023.103063](https://doi.org/10.1016/j.ensm.2023.103063).
- [5] F. Maleki, H. Razmi, M.-R. Rashidi, M. Yousefi, and M. Ghorbani, "Recent advances in developing electrochemical (bio)sensing assays by applying natural polymer-based electrospun nanofibers: A comprehensive review," *Microchemical Journal*, vol. 197, p. 109799, 2024, doi: <https://doi.org/10.1016/j.microc.2023.109799>.
- [6] M. A. Khalil, M. F. El-Kady, G. M. El-Subruti, and E. M. El-Sayed, "Influence of natural and synthetic blended polymers on the electrospun PVA/chitosan/PANI composite nanofibers to be used for dye decolorization," *Desalination Water Treat*, vol. 181, pp. 436–446, Mar. 2020, doi: [10.5004/dwt.2020.25125](https://doi.org/10.5004/dwt.2020.25125).

- [7] A. Rao, S. Bhat, S. De, and V. Cyriac, "Improving supercapacitor performance with novel potato starch-PVA solid polymer electrolyte blend modified by sodium perchlorate-glycerol additives," *J Energy Storage*, vol. 102, Nov. 2024, doi: 10.1016/j.est.2024.113965.
- [8] T. Kharisma *et al.*, "KARAKTERISTIK MEMBRAN KOMPOSIT BERBASIS KITOSAN/PVA TERMODIFIKASI LEMPUNG DARI BABAKAN MADANG BOGOR."
- [9] J. Du, X. Zhan, Y. Xu, K. Diao, D. Zhang, and S. Qin, "High-performance zinc-ion hydrogel electrolytes based on molecular-level hybridization of PVA with polymer quantum dots," *J Mater Sci Technol*, vol. 212, pp. 251–258, 2024, doi: <https://doi.org/10.1016/j.jmst.2024.06.023>.
- [10] D. Ghosh, K. Sarkar, P. Devi, K.-H. Kim, and P. Kumar, "Current and future perspectives of carbon and graphene quantum dots: From synthesis to strategy for building optoelectronic and energy devices," *Renewable and Sustainable Energy Reviews*, vol. 135, p. 110391, 2021, doi: <https://doi.org/10.1016/j.rser.2020.110391>.
- [11] J. Gamboa *et al.*, "Biodegradable Conducting PVA-Hydrogel Based on Carbon Quantum Dots: Study of the Synergistic Effect of Additives," *J Polym Environ*, vol. 32, no. 8, pp. 3609–3626, Aug. 2024, doi: 10.1007/s10924-023-03179-0.
- [12] T. Xu *et al.*, "Three-dimensional monolithic porous structures assembled from fragmented electrospun nanofiber mats/membranes: Methods, properties, and applications," *Prog Mater Sci*, vol. 112, p. 100656, 2020, doi: <https://doi.org/10.1016/j.pmatsci.2020.100656>.
- [13] S. Parham *et al.*, "Electrospun Nano-fibers for biomedical and tissue engineering applications: A comprehensive review," May 01, 2020, *MDPI AG*. doi: 10.3390/ma13092153.

- [14] Z. Ibrahim Takai *et al.*, “Fabrication, characterization and X-band microwave absorption properties of PAni/Fe₃O₄/PVA nanofiber composites materials,” *Arabian Journal of Chemistry*, vol. 13, no. 11, pp. 7978–7989, 2020, doi: <https://doi.org/10.1016/j.arabjc.2020.09.027>.
- [15] F. W. Yunus *et al.*, “Nanoporous Silicon Membrane Embedded With Dielectrophoresis (DEP) Electrodes for Ultrafiltration Improvement for Artificial Kidney,” *Journal of Microelectromechanical Systems*, vol. 32, no. 1, pp. 47–56, 2023, doi: 10.1109/JMEMS.2022.3213257.
- [16] Z.-L. Zhang *et al.*, “Thermally stable thin-film composite nanofiltration membranes derived from 3,3'-diaminobenzidine,” *J Memb Sci*, vol. 713, p. 123386, 2024, doi: <https://doi.org/10.1016/j.memsci.2024.123386>.
- [17] A. Salama, A. Alyan, M. El Amin, S. Sun, T. Zhang, and M. Zoubeik, “The effect of the oleophobicity deterioration of a membrane surface on its rejection capacity: A computational fluid dynamics study,” *Membranes (Basel)*, vol. 11, no. 4, Apr. 2021, doi: 10.3390/membranes11040253.
- [18] M. Guo, W. Song, Y. Tang, K. Su, M. Zhang, and Z. Li, “Effect of porous irregular ZrO₂ nanoparticles on the performance of alkaline water electrolysis composite separator membranes under complex conditions,” *J Memb Sci*, vol. 713, p. 123332, 2025, doi: <https://doi.org/10.1016/j.memsci.2024.123332>.
- [19] Y. Zhai, C. Li, and L. Gao, “Degradable block copolymer-derived nanoporous membranes and their applications,” *Giant*, vol. 16, Dec. 2023, doi: 10.1016/j.giant.2023.100183.
- [20] R. Mirandha Hamid, M. Amin, I. D. Bagus, M. Teknik Elektronika Politeknik Negeri Balikpapan, M. Teknik Mesin Politeknik Negeri Balikpapan, and T. Mesin Politeknik Negeri Balikpapan, “RANCANG BANGUN CHARGER BATERAI UNTUK KEBUTUHANAN UMKM.”

- [21] A. Kaboorani and B. Riedl, "13 - Mechanical performance of polyvinyl acetate (PVA)-based biocomposites," in *Biocomposites*, M. Misra, J. K. Pandey, and A. K. Mohanty, Eds., Woodhead Publishing, 2015, pp. 347–364. doi: <https://doi.org/10.1016/B978-1-78242-373-7.00009-3>.
- [22] R. Vithiya, K. Dinesh Ram, M. Jayaganesse, and S. Gowtham, "FLOW CONTROL OF POLYMER USING SYRINGE PUMP APPARATUS FOR ELECTROSPINNING NANOFIBER FABRICATION," 2019.
- [23] K. Oncheurn and Y. Infahsaeng, "Electric field effect on electrospun fiber alignment using a parallel electrode plate," in *Journal of Physics: Conference Series*, IOP Publishing Ltd, Jan. 2021. doi: 10.1088/1742-6596/1719/1/012064.
- [24] A. Haider, S. Haider, and I. K. Kang, "A comprehensive review summarizing the effect of electrospinning parameters and potential applications of nanofibers in biomedical and biotechnology," Dec. 01, 2018, *Elsevier B.V.* doi: 10.1016/j.arabjc.2015.11.015.
- [25] V. Tayebi-Khorrami, P. Rahmanian-Devin, M. R. Fadaei, J. Movaffagh, and V. R. Askari, "Advanced applications of smart electrospun nanofibers in cancer therapy: With insight into material capabilities and electrospinning parameters," Dec. 01, 2024, *Elsevier B.V.* doi: 10.1016/j.ijpx.2024.100265.
- [26] S. Gee, B. Johnson, and A. L. Smith, "Optimizing electrospinning parameters for piezoelectric PVDF nanofiber membranes," *J Memb Sci*, vol. 563, pp. 804–812, Oct. 2018, doi: 10.1016/j.memsci.2018.06.050.
- [27] B. A. Chinnappan, M. Krishnaswamy, H. Xu, and M. E. Hoque, "Electrospinning of Biomedical Nanofibers/Nanomembranes: Effects of Process Parameters," Sep. 01, 2022, *MDPI*. doi: 10.3390/polym14183719.
- [28] S. A. Al-Ghamdi *et al.*, "Biological synthesis of novel carbon quantum dots using *Halimeda opuntia* green algae with improved optical properties and

electrochemical performance for possible energy storage applications,” *Int J Electrochem Sci*, vol. 18, no. 5, 2023, doi: 10.1016/j.ijoes.2023.100102.

- [29] M. El-Azazy *et al.*, “The interface of machine learning and carbon quantum dots: From coordinated innovative synthesis to practical application in water control and electrochemistry,” Oct. 15, 2024, *Elsevier B.V.* doi: 10.1016/j.ccr.2024.215976.
- [30] Suman, G. Rani, R. Ahlawat, and H. Kumar, “Green source-based carbon quantum dots, composites, and key factors for high-performance of supercapacitors,” *J. Power Sources*, vol. 617, p. 235170, 2024, doi: <https://doi.org/10.1016/j.jpowsour.2024.235170>.
- [31] D. Wang *et al.*, “Ultrasonic assisted electrospinning preparation the polylactic acid loading with perillaldehyde biopolymer film with excellent solvent resistance, water-oxygen barrier stability and preservation effect,” *Lwt*, vol. 211, no. August, p. 116859, 2024, doi: 10.1016/j.lwt.2024.116859.
- [32] F. Ridwan, D. Agusta, M. A. Husin, and D. Dahlan, “Evaluation of the addition of cement ash to the PVA/TEOS/HCl gel electrolyte on the performance of aluminium air batteries,” *Mater. Sci. Energy Technol.*, vol. 8, no. July 2024, pp. 24–31, 2025, doi: 10.1016/j.mset.2024.07.003.