

DAFTAR PUSTAKA

- [1] E. A. Widagdo, P. Pardoyo, and A. Subagio, "Pemanfaatan Carbon Nanotube dan Karbon Aktif sebagai Elektroda Model Desalinasi," *J. Kim. Sains dan Apl.*, 2008, doi: 10.14710/jksa.11.3.90-95.
- [2] D. H. Eryati, "Desalination of Sea Water Based on Capacitive Deionization Technology Using Electrode of Nanoporous Carbon," 2016.
- [3] M. F. Dewi, "VARIASI KOMPOSISI ELEKTRODA KARBON NANOPORI UNTUK APLIKASI CAPACITIVE DEIONIZATION," *Educ.Psychol. J.*, vol.2, no. 2, p. 47, 2017, doi: DOI:
- [4] Z. H. Huang, Z. Yang, F. Kang, and M. Inagaki, "Carbon electrodes for capacitive deionization," *Journal of Materials Chemistry A*. 2017, doi: 10.1039/c6ta06733f.
- [5] C. Siregar, "DESALINASI AIR LAUT MENJADI AIR TAWAR MENGGUNAKAN TEKNOLOGI CAPACITIVE DEIONIZATION," 2020.
- [6] I. Permata, I. Permata, and F. Karakterisasi, "KARBON UNTUK SISTEM DESALINASI LARUTAN KCl DENGAN METODE FREEZING THAWING," vol. 18, no. 1, pp. 17–24, 2015.
- [7] N. Fadilah, "Analisa Pengukuran Nilai Konduktivitas Larutan NaCl Selama Proses Adsorpsi dan Desorpsi pada Sistem Capacitive Deionization (CDI)," vol. 03, no. 01, pp. 1–7, 2015.
- [8] M. E. Suss, S. Porada, X. Sun, P. M. Biesheuvel, J. Yoon, and V. Presser, "Water desalination via capacitive deionization: What is it and what can we expect from it?," *Energy Environ. Sci.*, vol. 8, no. 8, pp. 2296–2319, 2015, doi:10.1039/c5ee00519a.
- [9] G. Folaranmi, M. Bechelany, P. Sistat, M. Cretin, and F. Zaviska, "Towards electrochemical water desalination techniques: A review on capacitive deionization, membrane capacitive deionization and flow capacitive

- deionization,” *Membranes (Basel)*., vol. 10, no. 5, 2020, doi: 10.3390/membranes10050096.
- [10] I. Farida Antika, “Karakteristik Anoda Baterai Lithium-Ion yang dibuat dengan Metoda Spraying Berbasis Binder CMC,” *J. Ilmu dan Inov. Fis.*, vol. 3, no. 2, pp. 114–121, 2019, doi: 10.24198/jiif.v3i2.23073.
- [11] Z. Zhu *et al.*, “Effects of various binders on supercapacitor performances,” *Int. J. Electrochem. Sci.*, 2016, doi: 10.20964/2016.10.04.
- [12] R. G. Fajjiera, “PENGARUH KESTABILAN DEBIT PADA INSTRUMENCDI MENGGUNAKAN SENSOR WATER LEVEL DAN PROSES RECYCLE,” vol. 4, pp. 9–15, 2017.
- [13] S. Wang, D. S. Pang, and D. D. L. Chung, “Hygrothermal stability of electrical contacts made from silver and graphite electrically conductive pastes,” *J. Electron. Mater.*, vol. 36, no. 1, pp. 65–74, 2007, doi: 10.1007/s11664-006-0018-z.
- [14] R. Indiyanto, “Pengantar Pengetahuan Bahan Teknik,” *J. Tek. Ind.*, 2008.
- [15] S. Porada *et al.*, “Water desalination using capacitive deionization with microporous carbon electrodes,” *ACS Appl. Mater. Interfaces*, vol. 4, no. 3, pp. 1194–1199, 2012, doi: 10.1021/am201683j.
- [16] I. I. Septio, “Pengaruh Ukuran Karbon Aktif dan Zeolit terhadap Kemampuan Pengurangan Kadar Garam Air Laut menggunakan Teknologi Capacitive Deionization Effect of Activated Carbon and Zeolite Particle Size on Salt Reduction of Seawater using Capacitive Deionization Tech,”
- [17] H. Cahyani, H. Harmadi, and W. Wildian, “Pengembangan Alat Ukur Total Dissolved Solid (TDS) Berbasis Mikrokontroler Dengan Beberapa Variasi Bentuk Sensor Konduktivitas,” *J. Fis. Unand*, 2016, doi: 10.25077/jfu.5.4.371-377.2016.

- [18] D. J. Idiata, "Investigation of the Relationship between Electrical Conductivity and Total Dissolved Solids for Mono-Valent, Di-Valent and Tri-Valent Metal Compounds," *Int. J. Eng. Res. Rev.*, 2015.SAS, "Conductivity-theory and practice," *Anal. Radiom.*, 2004.
- [19] I. Villar *et al.*, "Capacitive deionization of NaCl solutions with modified activated carbon electrodes," in *Energy and Fuels*, 2010, vol. 24, no. 6, doi: 10.1021/ef901453q.
- [20] I. I. Septio, "Pengaruh Ukuran Karbon Aktif dan Zeolit terhadap Kemampuan Pengurangan Kadar Garam Air Laut menggunakan Teknologi Capacitive Deionization Effect of Activated Carbon and Zeolite Particle Size on Salt Reduction of Seawater using Capacitive Deionization Tech," 2021.
- [21] SAS, "Conductivity-theory and practice," *Anal. Radiom.*, 2004
- [22] F. Irwan and A. Afdal, "Analisis Hubungan Konduktivitas Listrik Dengan Total Dissolved Solid (TDS) Dan Temperatur Pada Beberapa Jenis Air," *J. Fis. Unand*, vol. 5, no. 1, 2016.
- [23] A. Nugroho, "Uraian Umum tentang Teknologi Desalinasi," *J. Pengemb. Energi Nukl.*, vol. 6, no. 2, pp. 65–75, 2004.
- [24] S. Redjeki, "Proses Desalinasi Dengan Membran," *Proses Desalinasi Dengan Membr.*, vol. Direktorat, p. 215, 2011.
- [25] T. Putro, "Fabrikasi Elektroda Karbon Dalam Sistem Desalinasi Dengan Variasi Tegangan Untuk Menurunkan Kadar Garam Dalam Air Yang Ditandai Dengan Penurunan Nilai TDS (Total Dissolved Solid)," *J. Integr. Kesehat. Sains*, vol. 1, 2017.
- [26] I. Fatimah, "Analisis Pengaruh Struktur Sel Elektroda pada Proses Desalinasi Larutan NaCl dalam Sistem Capacitive Deionization (CDI)," *Eff. cell electrodes Struct. Desalin. Process has been done. Desalin. test is done by using 2 cell CDI as porous carbon electrode (active carbon powder) given an Electr. Curr. This Res. has been Util. by basic Princ. a capa*, vol. 04, no. 01, pp. 1–6, 2016.

- [27] A. Astuti and Z. Efendi, “Perancangan Sistem Desalinasi Air Laut Menggunakan Multi Sel Elektroda Capacitive Deionization (CDI) Berbasis Karbon Aktif Tempurung Kemiri,” *Positron*, vol. 10, no. 1, p. 51, 2020, doi: 10.26418/positron.v10i1.37526.
- [28] Y. Oren, “Capacitive deionization (CDI) for desalination and water treatment - past, present and future (a review),” *Desalination*, 2008, doi: 10.1016/j.desal.2007.08.005.
- [29] A. N. Hakim and K. Khoiruddin, “Book · March 2014,” no. March, 2014.