

## DAFTAR PUSTAKA

- [1] Badan Pusat Statistik, *Statistik Indonesia 2022*. Jakarta: Badan Pusat Statistik, 2023.
- [2] S. Budinis, M. Fajardy, and C. Greenfield, “Carbon Capture, Utilisation and Storage,” Jul. 2023. Accessed: Dec. 09, 2023. [Online]. Available: <https://www.iea.org/reports/about-ccus>
- [3] N. Hedin, L. Andersson, L. Bergström, and J. Yan, “Adsorbents for the post-combustion capture of CO<sub>2</sub> using rapid temperature swing or vacuum swing adsorption,” *Appl Energy*, vol. 104, pp. 418–433, Apr. 2013, doi: 10.1016/j.apenergy.2012.11.034.
- [4] P. D. Dissanayake *et al.*, “Biochar-based adsorbents for carbon dioxide capture: A critical review,” *Renewable and Sustainable Energy Reviews*, vol. 119, p. 109582, Mar. 2020, doi: 10.1016/j.rser.2019.109582.
- [5] B. Petrovic, M. Gorbounov, and S. Masoudi Soltani, “Influence of surface modification on selective CO<sub>2</sub> adsorption: A technical review on mechanisms and method,” *Microporous and Mesoporous Materials*, vol. 312, p. 110751, Jan. 2021, doi: 10.1016/j.micromeso.2020.110751.
- [6] S. Li, X. Yuan, S. Deng, L. Zhao, and K. B. Lee, “A review on biomass-derived CO<sub>2</sub> adsorption capture: Adsorbent, adsorber, adsorption, and advice,” *Renewable and Sustainable Energy Reviews*, vol. 152, p. 111708, Dec. 2021, doi: 10.1016/j.rser.2021.111708.
- [7] Badan Pusat Statistik, *Statistik Kelapa Sawit Indonesia 2022*, vol. 16. Jakarta: Badan Pusat Statistik, 2023.
- [8] Badan Pusat Statistik, *Luas Panen dan Produksi Padi di Indonesia 2022*. Jakarta: Badan Pusat Statistik, 2023.
- [9] H. Yulzakri, “Pengaruh Bahan Pengaktif dan Suhu Aktivasi terhadap Karakteristik Arang Tandan Ksong Kelapa Sawit sebagai Adsorben CO<sub>2</sub>,” Universitas Andalas, Padang, 2023.
- [10] F. H. Maulana, “Pengaruh Bahan Pengaktif dan Suhu Aktivasi terhadap Karakteristik Arang Jerami sebagai Adsorben CO<sub>2</sub>,” Universitas Andalas, Padang, 2023.

- [11] A. Subkhan, "Kajian Emisi CO<sub>2</sub> dari Pemanfaatan Energi Rumah Tangga di Kelurahan Candi Kecamatan Candisari Kota Semarang," Universitas Negeri Semarang, Semarang, 2017.
- [12] S. Sehabudin, "Penambatan Karbon Dioksida dan Pengaruh Densitas Alga Air Tawar (*Chlorella Sp*) Pengurangan Emisi Karbon Dioksida," UIN Syarif Hidayatullah Jakarta, Jakarta, 2011. Accessed: Dec. 09, 2023. [Online]. Available: <http://repository.uinjkt.ac.id/dspace/handle/123456789/5388>
- [13] F. K. Lutgens, E. J. Tarbuck, and R. Herman, *The Atmosphere: An Introduction to Meteorology*, 14th ed. New Jersey: Pearson, 2020.
- [14] D. Lüthi *et al.*, "High-resolution carbon dioxide concentration record 650,000–800,000 years before present," *Nature*, vol. 453, no. 7193, pp. 379–382, May 2008, doi: 10.1038/nature06949.
- [15] L. Bruhwiler *et al.*, "Observations of greenhouse gases as climate indicators," *Clim Change*, vol. 165, no. 1–2, p. 12, Mar. 2021, doi: 10.1007/s10584-021-03001-7.
- [16] Nasruddin, "Dynamic Modeling and Simulation of Two-bed Silicagel Water Adsorption Chiller," Dissertation, RWTH Aachen University, Aachen, 2005.
- [17] A. L. Maddox and R. N. Hines, *Mass Transfer: Fundamentals and Applications*, 1st ed. New Jersey: Prentice Hall, 1984.
- [18] S. Samsuar, "Decrease in Free Fatty Acid Content and Color at Used Cooking Oil with Activated Carbon of Reeds (*Imperata Cylindrica L. Raeusch*)," *Jurnal Farmasi Lampung*, vol. 8, no. 2, pp. 87–94, 2019, doi: 10.37090/jfl.v8i2.144.
- [19] A. Taufan, "Pengujian Alat Pendingin Adsorpsi Dua Adsorber dengan Menggunakan Metanol 250 ml Sebagai Refrigeran," Universitas Indonesia, Depok, 2008.
- [20] J. W. Hassler, *Purification with Activated Carbon Industrial, Commercial and Environmental*. New York: Chemical Publishing Co. Inc, 1974.
- [21] HDR Engineering Inc., *Hand Book of Public Water System*, 2nd ed. New Jersey: Wiley, 2002.
- [22] R. Han, W. Zou, W. Yu, S. Cheng, Y. Wang, and J. Shi, "Biosorption of methylene blue from aqueous solution by fallen phoenix tree's leaves," *J*

- Hazard Mater*, vol. 141, no. 1, pp. 156–162, Mar. 2007, doi: 10.1016/j.jhazmat.2006.06.107.
- [23] T. Anggraini, “Karakteristik Adsorben Selulosa Sitrat sebagai Bahan Matriks untuk Amobilisasi Enzim,” Universitas Brawijaya, Malang, 2017.
  - [24] S. Cyprianus and M. Muzakky, “Proses Desorpsi Logam Berat Pada Sedimen Sungai Daerah Muria Dengan Pelarut Asam,” *GANENDRA Majalah IPTEK Nuklir*, vol. 13, no. 1, Jan. 2010, doi: 10.17146/gnd.2010.13.1.42.
  - [25] L. M. Estiyati, “Kesetimbangan dan Kinetika Adsorpsi Ion CU<sup>2+</sup> pada Zeolit-H,” *Jurnal RISET Geologi dan Pertambangan*, vol. 22, no. 2, p. 115, Nov. 2012, doi: 10.14203/risetgeotam2012.v22.63.
  - [26] N. Ayawei, A. N. Ebelegi, and D. Wankasi, “Modelling and Interpretation of Adsorption Isotherms,” *J Chem*, vol. 2017, pp. 1–11, 2017, doi: 10.1155/2017/3039817.
  - [27] M. A. Al-Ghouti and D. A. Da’ana, “Guidelines for the use and interpretation of adsorption isotherm models: A review,” *J Hazard Mater*, vol. 393, p. 122383, Jul. 2020, doi: 10.1016/j.jhazmat.2020.122383.
  - [28] S. A. Saragih, “Pembuatan dan Karakterisasi Karbon Aktif dari Batubara Riau Sebagai Adsorben,” Universitas Indonesia, Depok, 2008.
  - [29] R. M. Ali, T. Y. Hendrawati, I. Ismiyati, and N. H. Fitriyah, “Pengaruh Jenis Adsorben Terhadap Efektifitas Penurunan Kadar Timbal Limbah Cair Recycle Aki Bekas,” *Jurnal Teknologi Universitas Muhammadiyah Jakarta*, vol. 12, no. 1, pp. 87–92, 2020, doi: 10.24853/jurtek.12.1.87-92.
  - [30] M. T. Sembiring and T. S. Sinaga, “Arang Aktif (Pengenalan dan Proses Pembuatannya),” 2003. [Online]. Available: <https://api.semanticscholar.org/CorpusID:91502202>
  - [31] E. C. Leong and H. Rahardjo, “Permeability Functions for Unsaturated Soils,” *Journal of Geotechnical and Geoenvironmental Engineering*, vol. 123, no. 12, pp. 1118–1126, Dec. 1997, doi: 10.1061/(ASCE)1090-0241(1997)123:12(1118).
  - [32] L. M. Manocha, “High performance carbon-carbon composites,” *Sadhana*, vol. 28, no. 1, pp. 349–358, 2003, doi: 10.1007/BF02717143.

- [33] N. Sopiah, D. Prasetyo, and D. B. Aviantara, “Pengaruh Aktivasi Karbon Aktif dari Tandan Kosong Kelapa Sawit terhadap Adsorpsi Kadmium Terlarut,” *Jurnal Riset Teknologi Pencegahan Pencemaran Industri*, vol. 8, no. 2, pp. 55–66, Nov. 2017, doi: 10.21771/jrtppi.2017.v8.no2.p55-66.
- [34] A. Pratama and K. Sa'diyah, “Pengaruh Jenis Biomassa terhadap Karakteristik Asap Cair melalui Metode Pirolisis,” *DISTILAT: Jurnal Teknologi Separasi*, vol. 8, pp. 36–44, May 2023, doi: 10.33795/distilat.v8i1.260.
- [35] R. Pratiwi, D. Rahayu, and M. I. Barliana, “Pemanfaatan Selulosa Dari Limbah Jerami Padi (*Oryza sativa*) Sebagai Bahan Bioplastik,” *Indonesian Journal of Pharmaceutical Science and Technology*, vol. 3, no. 3, p. 83, Oct. 2016, doi: 10.15416/ijpst.v3i3.9406.
- [36] M. F. Rahman, “Pengaruh Jenis Bahan Pengaktif dan Suhu Aktivasi terhadap Karakteristik Adsorpsi Isotherm CO<sub>2</sub> Arang Sekam Padi,” Universitas Andalas, Padang, 2023.
- [37] MICTROTRAC, *BELMaster User's Manual*. [Online]. Available: <http://www.nist.gov/srd/rs/23.cfm>

