

DAFTAR PUSTAKA

- [1] Rezasyah Alifiadi and Agus Slamet, 'Utilization of Sandblasting Waste as an Alternative Material for Paving Blocks', *Jurnal Multidisiplin Madani*, vol. 2, no. 12, pp. 4399–4407, Dec. 2022, doi: 10.55927/mudima.v2i12.1911.
- [2] S. N. Ishmah, M. D. Permana, M. L. Firdaus, and D. R. Eddy, 'Extraction of Silica from Bengkulu Beach Sand using Alkali Fusion Method', *PENDIPA Journal of Science Education*, vol. 4, no. 2, pp. 1–5, Jun. 2020, doi: 10.33369/pendipa.4.2.1-5.
- [3] T. Medya Ratri *et al.*, 'Silica Extraction Based on Quartz Sand Waste Sandblasting PT. Dok Lamongan with Base Method', 2024, doi: 10.33366/rekabuan.
- [4] Z. Cheng and Q. Cheng, 'Performance of CO₂ adsorption by hybrid amine-functionalized MCM-41', *Desalination Water Treat*, vol. 254, pp. 142–150, Apr. 2022, doi: 10.5004/dwt.2022.28369.
- [5] J. de O. N. Ribeiro *et al.*, 'Role of the type of grafting solvent and its removal process on APTES functionalization onto SBA-15 silica for CO₂ adsorption', *Journal of Porous Materials*, vol. 26, no. 6, pp. 1581–1591, Dec. 2019, doi: 10.1007/s10934-019-00754-6.
- [6] J. Li, N. Tsunoji, R. Kumar, N. C. Sukmana, and M. Sadakane, 'Minimizing usage of silane coupling agent for amine-grafted mesoporous silica CO₂ adsorbent', *Journal of Porous Materials*, vol. 31, no. 4, pp. 1289–1304, Aug. 2024, doi: 10.1007/s10934-024-01596-7.
- [7] D. V. Quang, T. A. Hatton, and M. R. M. Abu-Zahra, 'Thermally Stable Amine-Grafted Adsorbent Prepared by Impregnating 3-Aminopropyltriethoxysilane on Mesoporous Silica for CO₂ Capture', *Ind Eng Chem Res*, vol. 55, no. 29, pp. 7842–7852, Jul. 2016, doi: 10.1021/acs.iecr.5b04096.
- [8] R. Girimonte, F. Testa, M. Turano, G. Leone, M. Gallo, and G. Golemme, 'Amine-Functionalized Mesoporous Silica Adsorbent for CO₂ Capture in Confined-Fluidized Bed: Study of the Breakthrough Adsorption Curves as a Function of Several Operating Variables', *Processes*, vol. 10, no. 2, Feb. 2022, doi: 10.3390/pr10020422.

- [9] N. Rao, M. Wang, Z. Shang, Y. Hou, G. Fan, and J. Li, 'CO₂ Adsorption by Amine-Functionalized MCM-41: A Comparison between Impregnation and Grafting Modification Methods', *Energy and Fuels*, vol. 32, no. 1, pp. 670–677, Jan. 2018, doi: 10.1021/acs.energyfuels.7b02906.
- [10] R. G. Santiago *et al.*, 'Evaluation of the thermal regeneration of an amine-grafted mesoporous silica used for CO₂/N₂ separation', *Adsorption*, vol. 26, no. 2, pp. 203–215, Feb. 2020, doi: 10.1007/s10450-019-00112-7.
- [11] X. Jiang, Y. Kong, Z. Zhao, and X. Shen, 'Spherical amine grafted silica aerogels for CO₂ capture', *RSC Adv*, vol. 10, no. 43, pp. 25911–25917, Jul. 2020, doi: 10.1039/d0ra04497k.
- [12] N. A. Rahman, *SINTESIS SILIKA GEL DARI ABU BAGASSE SEBAGAI ADSORBEN CO₂*. 2022.
- [13] Y. Wang and R. T. Yang, 'Template Removal from SBA-15 by Ionic Liquid for Amine Grafting: Applications to CO₂ Capture and Natural Gas Desulfurization', *ACS Sustain Chem Eng*, vol. 8, no. 22, pp. 8295–8304, Jun. 2020, doi: 10.1021/acssuschemeng.0c01941.
- [14] H. Nigar, B. Garcia-Baños, F. L. Peñaranda-Foix, J. M. Catalá-Civera, R. Mallada, and J. Santamaría, 'Amine-functionalized mesoporous silica: A material capable of CO₂ adsorption and fast regeneration by microwave heating', *AIChE Journal*, vol. 62, no. 2, pp. 547–555, Feb. 2016, doi: 10.1002/aic.15118.
- [15] R. Kishor and A. K. Ghoshal, 'APTES grafted ordered mesoporous silica KIT-6 for CO₂ adsorption', *Chemical Engineering Journal*, vol. 262, pp. 882–890, Feb. 2015, doi: 10.1016/j.cej.2014.10.039.
- [16] D. Ramadhanty, K. Adi Reksatama, E. Kurniati Program Studi Teknik Kimia, U. Pembangunan Nasional, J. Timur Jl Raya Rungkut Madya Gunung Anyar, and P. Korespondensi, 'Sintesa Dan Karakteristik Adsorben dari Abu Vulkanik', 2021. [Online]. Available: www.chempro.upnjatim.ac.id
- [17] V. Nurmazaya, R. Nurlaila, N. Za, L. Hakim, R. Dewi, and W. U. Fibarzi, 'ANALISIS PENGARUH SUHU DAN WAKTU PADA PEMBENTUKKAN SILIKA DARI SEKAM PADI MENGGUNAKAN LARUTAN KOH', 2022.
- [18] A. Hendrawan and R. Aprilian, 'SANDBLASTING PADA KAPAL MV. BERLIAN INDAH', 2020.

- [19] S. Fairus, M. H. Sugita, and dan Agus Sudrajat, 'PROSES PEMBUATAN WATERGLASS DARI PASIR SILIKA DENGAN PELEBUR NATRIUM HIDROKSIDA', 2009.
- [20] S. Hastuti, T. Martini, and A. T. Utami, 'Pemanfaatan Silika dari Abu Sekam Padi untuk Pembuatan Material Imprinted Ionic sebagai Adsorben Ion Logam Pb(II)', *ALCHEMY Jurnal Penelitian Kimia*, vol. 19, no. 2, p. 162, Sep. 2023, doi: 10.20961/alchemy.19.2.70373.162-169.
- [21] A. G. N. Wamba *et al.*, 'Grafting of Amine functional group on silicate based material as adsorbent for water purification: A short review', Apr. 01, 2018, *Elsevier Ltd.* doi: 10.1016/j.jece.2018.04.062.
- [22] M. J. Large, S. P. Ogilvie, A. A. K. King, and A. B. Dalton, 'Understanding solvent spreading for langmuir deposition of nanomaterial films: A hansen solubility parameter approach', *Langmuir*, vol. 33, no. 51, pp. 14766–14771, Dec. 2017, doi: 10.1021/acs.langmuir.7b03867.
- [23] R. S. Mullanpudi and K. Sudhakar Reddy, 'Relationship between Rheological Properties of RAP Binders and Cohesive Surface Free Energy', *Journal of Materials in Civil Engineering*, vol. 32, no. 6, Jun. 2020, doi: 10.1061/(asce)mt.1943-5533.0003199.
- [24] A. A. Rogachev, S. Tamulevičius, A. V. Rogachev, I. Prosycevas, and M. Andrulevičius, 'Features of polytetrafluoroethylene coating growth on activated surfaces from gas phase', in *Springer Proceedings in Physics*, vol. 129, Springer Science and Business Media, LLC, 2009, pp. 85–89. doi: 10.1007/978-3-540-95930-4_14.
- [25] S. Clara Precelia, R. Dirgarini Julia Nurlianti Subagyono, C. Saleh Jurusan Kimia, F. Matematika dan Ilmu Pengetahuan Alam, U. Mulawarman Jalan Barong Tongkok, and K. Gn Kelua, 'SINTESIS SILIKA MESOPORI TERSULFONASI DARI ABU DAUN BAMBU PETUNG (Dendrocalamus asper) SYNTHESIS OF SULFONATED MESOPOROUS SILICA FROM BAMBOO LEVES ASH (Dendrocalamus asper)', 2018.
- [26] Hendrawati, *Bioplastik Berbahan Dasar Sisa Hasil Pertanian*. Deepublish, 2023. [Online]. Available: <https://books.google.co.id/books?id=6WVMEQAAQBAJ>

- [27] G. James, *Pengantar Nanoteknologi*. Gilad James Mystery School, 2023. [Online]. Available: <https://books.google.co.id/books?id=eV7AEAAAQBAJ>
- [28] A. Rochman and U. G. M. Press, *Spektroskopi Vibrasional Teori dan Aplikasinya untuk Analisis Farmasi*. UGM PRESS, 2021. [Online]. Available: <https://books.google.co.id/books?id=lzMXEAAAQBAJ>
- [29] E. Tasiam *et al.*, *ANALISIS FARMASI: TEORI, METODE DAN APLIKASI LABORATORIUM*. Yayasan Bina Lentera Insan, 2025. [Online]. Available: <https://books.google.co.id/books?id=xhtxEQAAQBAJ>
- [30] J. de O. N. Ribeiro *et al.*, ‘Role of the type of grafting solvent and its removal process on APTES functionalization onto SBA-15 silica for CO₂ adsorption’, *Journal of Porous Materials*, vol. 26, no. 6, pp. 1581–1591, Dec. 2019, doi: 10.1007/s10934-019-00754-6.
- [31] L. Kosim Darusman, R. Heryanto, M. Rafi, and W. Tri Wahyuni, ‘POTENSI DAERAH SIDIK JARI SPEKTRUM INFRAMERAH SEBAGAI PENANDA BIOAKTOVITAS EKSTRAK TANAMAN OBAT’, pp. 154–162, 2007.
- [32] G. Zhang, P. Zhao, L. Hao, Y. Xu, and H. Cheng, ‘A novel amine double functionalized adsorbent for carbon dioxide capture using original mesoporous silica molecular sieves as support’, *Sep Purif Technol*, vol. 209, pp. 516–527, Jan. 2019, doi: 10.1016/j.seppur.2018.07.074.
- [33] P. T. Bertuoli, D. Piazza, L. C. Scienza, and A. J. Zattera, ‘Preparation and characterization of montmorillonite modified with 3-aminopropyltriethoxysilane’, *Appl Clay Sci*, vol. 87, pp. 46–51, Jan. 2014, doi: 10.1016/j.clay.2013.11.020.