

DAFTAR PUSTAKA

- Abanades, Juan Carlos, et al. "Carbon Dioxide Capture and Storage Summary for Policymakers." *Special Report of Working Group III of the Intergovernmental Panel on Climate Change*.
- Al-Shamari, M., Khodary, A., Suk Han, D., Mujtaba, I. M., & Rahmanian, N. (2023). *Production of Blue Ammonia as a Clean Fuel in Qatar*, 99, 421–426. <https://doi.org/10.3303/CET2399071>
- Alibaba.com (2023)
- Aulia, H. N. (2022). Simulasi Aspen Hysys Pada Kolom Absorpsi Gas CO₂ Dengan Solven Metildietanolamine (MDEA) . Jurnal Teknologi Technoscientia, 14(2), 85–90. <https://doi.org/10.34151/technoscientia.v14i2.3579>
- Badan Pusat Statistik Kabupaten Gresik. 2023. Kabupaten Gresik Dalam Angka 2023. [Daring] Diakses di: <<https://gresikkab.bps.go.id/publication/2023/02/28/505807589f05a5fb25f8c544/kabupaten-gresik-dalam-angka-2023.html> >
- Bappeda Jatim. 2022. Keputusan Gubernur Jawa Timur Nomor 188/889/KPTS/013/2022 Tentang Upah Minimum Kabupaten/Kota Di Jawa Timur Tahun 2023 [Daring] Diakses di:<<https://bappeda.jatimprov.go.id/bappeda/wpcontent/uploads/2022/12/2022KGJATIM0035889.pdf> >
- Bird R.B.; Stewart W. E.; Lighfoot E. N, Transport phenomena, vol. 36, no. 11. 1980
- Bisnisindonesia.id.2022. [Daring] Diakses di: <https://bisnisindonesia.id/article/aliran-gas-bumi-di-selat-madura-dan-karpet-merah-untuk-investor>
- BPBD Kabupaten Gresik.2022. Kilas Balik Bencana 2021. [Daring] Diakses di: <<https://bpbd.gresikkab.go.id/2022/01/04/kilas-balik-bencana-2021>>
- Brownell, "Process Equipment Design Handbook," *Advances in Applied Science Research*, vol. 3, no. 3. p. 408, 1959, [Online]. Available: <https://books.google.com/books?id=QtQWiZSkBzMC&pgis=1>.
- C.Jataí Cavalcante Júnior and P. de A. Pessoa Filho, "Modeling and simulation of an industrial adsorption process of dehydration of natural gas in 4A molecular sieves: Effect of adsorbent aging," *Results Eng.*, vol. 18, no. January, 2023, doi: 10.1016/j.rineng.2023.101144.
- ChemAnalyst.2023. Ammonia Market Analysis: Industry Market Size, Plant Capacity, Production, Operating Efficiency, Foreign Trade, Demand & Supply, End-User

- Industries, Sales Channel, Company Share, Regional Demand, Manufacturing Process, 2021-2030. [Daring] Diakses di: <<https://www.chemanalyst.com/industry-report/ammonia-market-631>>
- Cision. 2023. Ammonia Market to Triple by 2050 with Nearly All Growth Coming from Low-Carbon Supply [Daring] Diakses di: <<https://www.prnewswire.com/news-releases/ammonia-market-to-triple-by-2050-with-nearly-all-growth-coming-from-low-carbon-supply-301873382.html>>
- CNBC.2022. Amonia Energi Masa Depan! RI Ketiban 'Durian Runtuh' Jumbo? [Daring] Diakses di: <<https://www.cnbcindonesia.com/market/20221024102115-17-381992/amonia-energi-masa-depan-ri-ketiban-durian-runtuh-jumbo>>
- D. C. Dyson and J. M. Simon, "A kinetic expression with diffusion correction for ammonia synthesis on industrial catalyst," *Ind. Eng. Chem. Fundam.*, vol. 7, no. 4, pp. 605–610, 1968, doi: 10.1021/i160028a013.
- D. Q. Kern, "Procces Heat Transfer." pp. 820–845, 1965.
- Davies, Lincoln, et al. "Understanding Barriers to Commercial-Scale Carbon Capture and Sequestration in the United States: an Empirical Assessment." *Energy Policy*, vol. 59, 2013, pp. 745-761., doi:10.1016/j.enpol.2013.04.033
- Detik Finance. 2022. Indonesia Bersiap Penuhi Kebutuhan Blue Ammonia Pasar Jepang [Daring] Diakses di: <<https://finance.detik.com/industri/d-6355147/indonesia-bersiap-penuhi-kebutuhan-blue-ammonia-pasar-jepang>>
- Dhahran. (n.d.). *World's first blue ammonia shipment opens new route to a sustainable future.* Aramco. <https://www.aramco.com/en/news-media/news/2020/first-blue-ammonia-shipment>
- Dr Hussein Moghaddam. (n.d.). Expert commentary - potential and benefits of blue ammonia as a clean fuel of the future. GECF. <<https://www.gecf.org/events/expert-commentary-potential-and-benefits-of-blue-ammonia-as-a-clean-fuel-of-the-future>>
- Erdemir, D., & Dincer, I. (2020). A perspective on the use of ammonia as a clean fuel: Challenges and solutions
- ESSA. 2023. Bahan Kimia [Daring] Diakses di: <<https://essa.id/id/bahan-kimia/>>
- Fortune Business Insights.2022. The global ammonia market is projected to grow from \$71.98 billion in 2021 to \$110.93 billion in 2028 at a CAGR of 6.4% in forecast period, 2021-2028. [Daring] Diakses di:<<https://www.fortunebusinessinsights.com/industry-reports/ammonia-market-101716>>

Fuller, E.N., Schettler, P.D., Giddings, J.C., 1966. A new method for the prediction of gas-phase diffusion coefficients. *Ind. Eng. Chem.* 58 (May), 19.

Global gas outlook 2050. (n.d.). <https://www.gecf.org/insights/global-gas-outlook>

Himawan, R., Sahertian, F.R. 2018. Simulasi Reaktor Hidrodearomatik Dan Hidrodesulfurisasi Pada Berbagai Kondisi Operasi Pada Pengolahan Minyak Pelumas Bekas [Daring] Diakses di: <
<https://repository.its.ac.id/54092/1/02211440000036%20%26%2002211440000065%20-%20Undergraduate%20Theses.pdf> >

Investor.id. 2023. Pupuk Indonesia Garap 3 Proyek Amonia Bersih. [Daring] Diakses di: <
<https://investor.id/business/325994/pupuk-indonesia-garap-3-proyek-amonia-bersih>>

Intergovernmental Panel on Climate Change (IPCC). Climate Change 2014 synthesis report, Retrieved from https://ar5-syr.ipcc.ch/ipcc/ipcc/resources/pdf/IPCC_SynthesisReport.pdf, [accessed November 28, 2023], vol. 2021; 2014. [2]

Isa Djohari. (n.d.). *Emisi Gas Rumah Kaca dari Pertanian*. Emisi Gas Rumah Kaca Dari Pertanian. <https://www.icdx.co.id/news-detail/publication/emisi-gas-rumah-kaca-dari-pertanian>

J. M. Smith, I. J. C. N. Van, M. M. Abbott, and I. N. T. Ioi, “Introduction to Chemical Engineering Thermodynamics.”

J. Xu and G. F. Froment, “Methane steam reforming, methanation and water-gas shift: I. Intrinsic kinetics,” *AIChE J.*, vol. 35, no. 1, pp. 88–96, 1989, doi: 10.1002/aic.690350109.

Japanese, Russian companies partner on Feasibility Study of Blue Ammonia Value Chain Between Eastern Siberia & Japan (n.d.-b). <https://www.greencarcongress.com/2021/01/20210101-blueh3.html>

Kabupaten Gresik 2023. [Daring] Diakses: <https://gresikkab.go.id/documents/1615965493Bab%20%20Perda%20RPJMD%20Final.pdf>

Kamalia, F. 2018. Sintesis Katalis NiMo/ γ -Al₂O₃, CoMo/ γ -Al₂O₃, dan CoNiMo/ γ -Al₂O₃ Untuk Hidrodesulfurisasi Kerosin. [Daring] Diakses di: <
<https://repository.uinjkt.ac.id/dspace/bitstream/123456789/47848/1/FARAH%20KAMALIA-FST.pdf> >

Kawai, E., Ozawa, A., & Leibowicz, B. D. (2022). Role of carbon capture and utilization (CCU) for decarbonization of industrial sector: A case study of japan. *Applied Energy*, 328, 120183. <https://doi.org/10.1016/j.apenergy.2022.120183>

Kellogg, Brown and Root. (n.d.). *Blue Ammonia*. KBR Corporate Headquarters. Retrieved from <https://www.kbr.com/sites/default/files/documents/2023-10/Blue-Ammonia-Brochure.pdf>.

Kompas.id. 2023. Momentum Kembangkan Pasar dan Disversifikasi Produk. [Daring] Diakses di: <<https://www.kompas.id/baca/bebas-akses/2023/06/19/momentum-kembangkan-pasar-dan-diversifikasi-produk>>

Kontan. 2023. Kembangkan Blue Ammonia, Perta Arun Gas gandeng Aslan Energy Capital [Daring] Diakses di: <<https://industri.kontan.co.id/news/kembangkan-blue-ammonia-perta-arun-gas-gandeng-aslan-energy-capital>>

M. Ruthven, "Principles of Adsorption and Adsorption Processes," Wiley Intersci., vol. 1, pp. 1–31, 1984.

N. E. Amadeo and M. A. Laborde, "Hydrogen production from the low-temperature water-gas shift reaction: Kinetics and simulation of the industrial reactor," *Int. J. Hydrogen Energy*, vol. 20, no. 12, pp. 949–956, 1995, doi: 10.1016/0360-3199(94)00130-R.

Paltsev, S., Morris, J., Kheshgi, H., & Herzog, H. (2021). Hard-to-abate sectors: The role of Industrial Carbon Capture and storage (CCS) in emission mitigation. *Applied Energy*, 300, 117322. <https://doi.org/10.1016/j.apenergy.2021.117322>

Pamitra.co.id. 2015 [Daring] Diakses di:<https://pamitra.co.id/pertagas-start-porong-grati-gas-pipeline/>

Parandin, M.S. et al. 2018. Deep desulfurization of natural gas by a commercial ZnO adsorbent: A mathematical study for fixed-bed reactors, *Journal of Natural Gas Science and Engineering*, Volume 59, Pages 116-123, ISSN 1875-5100, <https://doi.org/10.1016/j.jngse.2018.08.030>

Pertanian.jatimprov.2023. [Daring] Diakses: <https://pertanian.jatimprov.go.id/kab-gresik/>

Piper, G. (2020, November 19). *It's time to get excited about blue ammonia*. Medium. <https://medium.com/age-of-awareness/its-time-to-get-excited-about-blue-ammonia-4620e74d5861>

Pupuk Indonesia. 2023. Production Capacity. [Daring] Diakses di: <<https://www.pupuk-indonesia.com/profile/production-capacity>>

PT Parna Raya.2022. SEKILAS TENTANG PT KALTIM PARNA INDUSTRI (KPI). [Daring] Diakses di: <<https://www.parnaraya.co.id/newsdet.php?id=20>>

R. Chacón, A. Canale, A. Bouza, and Y. Sánchez, "Modeling of a three-phase reactor for bitumen-derived gas oil hydrotreating," *Brazilian J. Chem. Eng.*, vol. 29, no. 1, pp. 135–146, 2012, doi: 10.1590/S0104-66322012000100015.

- R. L. Keiski, O. Desponds, Y. F. Chang, and G. A. Somorjai, "Kinetics of the watergas shift reaction over several alkane activation and water-gas shift catalysts," Appl. Catal. A, Gen., vol. 101, no. 2, pp. 317–338, 1993, doi: 10.1016/0926-860X(93)80277-W
- Radar Gresik. 2022. PLN Pastikan Pasokan Listrik di Kawasan Industri Gresik Aman [Daring] Diakses di: <https://radargresik.jawapos.com/>
- Roihatin, et al, 2020. "EVALUASI KINERJA MEMBRAN REVERSE OSMOSIS HYFLUX SW30HR LE-400 PADA PLTU PAITON"
- Salem, A., & Amanpour Reyhani, F. (2015). Applied aspects for enhanced CO₂ capture from reformer gas: Comparison between the performance of valve tray absorber and packed column, Part I. International Journal of Greenhouse Gas Control, 42, 237–245. <https://doi.org/10.1016/j.ijggc.2015.07.028>
- Sinnott, R. K., 2005, "Coulson & Richardson's Chemical Engineering Series Chemical Engineering Design", Chemical Engineering vol. 6 4th ed., Elsevier Butterworth-Heinemann, Oxford.
- Shahid, M.Z., et al. (2021). Packed column modelling and experimental evaluation for CO₂ absorption using MDEA solution at high pressure and high CO₂ concentrations, Journal of Natural Gas Science and Engineering, Volume 88, 103829, ISSN 1875-5100, <https://doi.org/10.1016/j.jngse.2021.103829>
- Synder, J. (2020, March 26). *Ammonia research supports development of fuel cell-powered PSV*. Riviera. <https://www.rivieramm.com/news-content-hub/ammonia-research-supports-development-of-fuel-cell-powered-psv-58688>
- Tullo, A. H. (2022, May 2). Industry prepares ammonia for a second life as a fuel for the future. Chemical & Engineering News. <https://cen.acs.org/business/petrochemicals/ammonia-fuel-future/99/i8>
- Ulrich, G. D., 1985, A Guide to Chemical Engineering Process Design and Economics, pp. 324-329, John Wiley and Sons, Inc., New York.
- U.S. Energy Information Administration. (2021, April 1). *U.S. ammonia production is growing, and becoming less carbon intensive*. Natural Gas Weekly Update. https://www.eia.gov/naturalgas/weekly/archivenew_ngwu/2021/04_01/
- V. Pattabathula and J. Richardson, "Introduction to ammonia production," Chem. Eng. Prog., vol. 112, no. 9, pp. 69–75, 2016
- Wilke, C.R., Chang, P., 1955. Correlation of diffusion coefficients in dilute solutions. AIChEJL 1, 264.

- Yang, C., et al. 2020. A sustainable design of ZnO-based adsorbent for robust H₂S uptake and secondary utilization as hydrogenation catalyst, *Chemical Engineering Journal*, Volume 382, 122892, ISSN 1385-8947, <https://doi.org/10.1016/j.cej.2019.122892>.
- Yaws, C.L. (Ed.), 1999. *Chemical Properties Handbook*. McGraw-Hill
- Ying, J., et al. 2017. The Activator Mechanism of Piperazine in Aqueous Methyldiethanolamine Solutions, *Energy Procedia*, Volume 114, Pages 2078-2087, ISSN 1876-6102, <https://doi.org/10.1016/j.egypro.2017.03.1342>
- Yüzbaşıoğlu, A. E., Tatarhan, A. H., & Gezerman, A. O. (2021). Decarbonization in ammonia production, new technological methods in industrial scale ammonia production and critical evaluations. *Heliyon*, 7(10). <https://doi.org/10.1016/j.heliyon.2021.e08257>