DAFTAR PUSTAKA

Alarifi, A. and Croiset, E. (2016) *Modeling, analysis and optimization of the gas-phase methanol synthesis process*. thesis. Available at: https://uwspace.uwaterloo.ca/bitstream/handle/10012/10156/Alarifi_Abdulaziz.pdf?sequence=1&isAllowed=y (Accessed: 17 May 2024).

Alibaba. (2024). *Factory Price Methane High Purity 99.999% Pure CH4 Gas Methane Natural*. Retrieved May 25, 2024, from https://www.alibaba.com/product-detail/Factory-Price-Methane-High-Purity-99_1600825663656.html?spm=a2700.galleryofferlist.p_offer.d_title.72b23fbfk6jKJ4&s=p

Alsuhaibani, Abdulrahman Saleh A (2018). Optimal Selection and Design of a Methanol Process with Enhanced CO2 Utilization. Thesis. Available at: https : / /hdl .handle .net /1969 .1 /174388. (Accessed: 17 May 2024).

Badan Pusat Statistik Kabupaten Teluk Bintuni. (2023). Kabupaten Teluk Bintuni Dalam Angka 2023 (Teluk Bintuni Regency in Figures 2023). Teluk Bintuni, Badan Pusat Statistik Kabupaten Teluk Bintuni.

Badan Pusat Statistik. http://www.bps.go.id/id/exim (Accessed 17 May 2024).

Chandra Asih Pacific (2023). Laporan Tahunan PT Chandra Asih Pacific 2023, Transformation through Partnership for Growth (Transformasi melalui kemitraan untuk pertumbuhan), Technical report, Banten, Chandra Asih Pacific.

Chandra Asih Petrochemical (2021). Laporan Tahunan PT Chandra Asih Petrochemical 2021, Strategic Partnership for a Better Future (Kemitraan Strategis untuk Masa Depan Lebih Baik), Technical report, Banten, Chandra Asih Petrochemical.

CHANG, C. (1977) 'The conversion of methanol and other O-compounds to hydrocarbons over zeolite catalysts', *Journal of Catalysis*, 47(2), pp. 249–259. doi:10.1016/0021-9517(77)90172-5.

Chemanalyst (2023). Ethylene Market Size, Share, Trends, Growth & Forecast. Avalaible at: https://www.chemanalyst.com/industry-report/ethylene-market-638 (Accessed: 17 May 2024).

Chen, Y., Yan, B. and Cheng, Y. (2023) 'State-of-the-art review of oxidative dehydrogenation of ethane to ethylene over MoVNbTeOx catalysts', *Catalysts*, 13(1), p. 204. doi:10.3390/catal13010204.

Coulson & Richardson. (1983). *'Chemical Engineering Design', vol. 6.* London: Pergamon Press.

Farsi, M. and Lari, M.F. (2020) 'Methanol production based on methane tri-reforming: Process Modeling and Optimization', *Process Safety and Environmental Protection*, 138, pp. 269–278. doi:10.1016/j.psep.2020.03.014.

Gholami, Z. *et al.* (2021) 'A review on the production of light olefins using steam cracking of hydrocarbons', *Energies*, 14(23), p. 8190. doi:10.3390/en14238190.

Gijzel, R.A. van. (2017) *Energy Analysis and plant design for ethylene production from Naphtha and Natural Gas*. thesis. Available at: https://research.tue.nl/files/118582087/Rhea_van_Gijzel.pdf (Accessed: 17 May 2024).

Gogate, M.R. (2019) 'Methanol-to-olefins process technology: Current status and future prospects', *Petroleum Science and Technology*, 37(5), pp. 559–565. doi:10.1080/10916466.2018.1555589.

Haryadi, H. *et al*. (2023) 'Kajian Techno-Economy Produk Etilen dari Etanol Berbasis Pertumbuhan dan Prakiraan Pasar di Indonesia', *Jurnal Rekayasa Proses*, 17(2), pp. 191-205. doi:10.22146/jrekpros.84499

J. M. Smith, H. C. (2001). *Introduction to Chemical Engineering Thermodynamics, 6th ed.* New York: McGraw-Hill Book Company, Inc.

Kementerian ESDM. (2020). *Kepmen ESDM No. 89 Tahun 2020 tentang Penggunaan Harga Gas Bumi Tertentu di Bidang Industri.*

Kementrian Perindustrian, 2016, Peraturan Menteri Perindustrian Nomor 40/m-ind/per/7/2016 Tahun 2016 Tentang Pedoman Teknis Pembangunan Kawasan Industri, Peraturan Menteri, Jakarta.

Kern, D. Q. (2019). *Kern's Process Heat Transfer Second Edition.* USA: Scrivener Publishing.

Lundström, A. (2021) *Methanol mediated CO2 hydrogenation to lower olefins*. thesis. Available at: https://odr.chalmers.se/bitstream/20.500.12380/302472/1/Master_s_Thesis_final.pdf (Accessed: 17 May 2024).

Maporti, D., Guffanti, S., Galli, F., Mocellin, P., & Pauletto, G. (2024). Towards sustainable hydrogen production: Integrating electrified and convective steam reforming, and carbon capture and storage [Preprint]. SSRN. https://doi.org/10.2139/ssrn.4923538.

Mihail, R. *et al.* (1983) 'A kinetic model for methanol conversion to hydrocarbons', *Chemical Engineering Science*, 38(9), pp. 1581–1591. doi:10.1016/0009-2509(83)80094-3.

National Center for Biotechnology Information (2024). PubChem Compound Summary for CID 6325, Ethylene. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Ethylene. (acessed: May 17, 2024)

National Center for Biotechnology Information (2024). PubChem Compound Summary for CID 8252, Propylene. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Propylene. (acessed: May 17, 2024)

Oil and Gas Journal (2013). Global ethylene capacity poised for major expansion. Available at : https://www.ogj.com/refining-processing/petrochemicals/article/17240774/global-ethylene-capacity-poised-for-major-expansion (Accessed 17 May 2024).

Ortiz-Bravo, C.A., Chagas, C.A. and Toniolo, F.S. (2021) 'Oxidative coupling of methane (OCM): An overview of the challenges and opportunities for developing new technologies', *Journal of Natural Gas Science and Engineering*, 96, p. 104254. doi:10.1016/j.jngse.2021.104254.

Otaraku, I.J., Egun, I.L. and Nyebuchi, Q. (2018) 'Methanol production based on methane tri-reforming: Process Modeling and Optimization', *International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)*, 7(9). Available at: https://www.ijltemas.in/DigitalLibrary/Vol.7Issue11/15-18.pdf (Accessed: 17 May 2024).

Parderio, P.T. *et al.* (2020) *Pra Desain Pabrik Metanol dari Gas Alam*. thesis. Available at: https://ejurnal.its.ac.id/index.php/teknik/article/viewFile/98722/7192 (Accessed: 17 May 2024).

Robbert H. Perry, D. W. (1997). *Perry's Chemical Engineers' Handbook, 7th ed.* New York: McGraw-Hill.

Rostrup-Nielsen, J. R., Sehested, J., & Nørskov, J. K. (2002). Hydrogen and synthesis gas by steam- and CO_2 reforming. Advances in Catalysis, 47, 65–139.

Rosli, M.N. and Aziz, N. (2016) 'Simulation of ethane steam cracking with severity evaluation', *IOP Conference Series: Materials Science and Engineering*, 162(1), p. 012017. doi:10.1088/1757-899x/162/1/012017.

Setiawan, A. (2018). MINERALS AND COAL RESERVES POTENTIAL IN INDONESIA AND THE WORLD: POTENSI CADANGAN MINERAL DAN BATUBARA DI INDONESIA DAN DUNIA. *INTAN Jurnal Penelitian Tambang*, *1*(1), 20-31.

Sinnot, R, and Towler, G. (2008) "CHEMICAL ENGINEERING DESIGN : Principles, Practice, and Economic of Plant and Process Design",p. 1065-1068, Oxford, Butterworth-Heinemann Elsevier

Sootodeh, K. (2024). Storage Tank Essential Design Considerations. In *Storage Tanks Selection, Design, Testing, Inspection, and Maintenance* (pp. 101-170).

SKK Migas. (2021) Buku Statistik Minyak dan Gas Bumi 2021. Jakarta.

Świrk, K., Grzybek, T., Motak, M., (2017). Tri-reforming as a Process of CO_2 Utilization and a Novel Concept of Energy Storage in Chemical Products. In *E3S Web of Conferences, Energy and Fuels* (2017). Department of Fuel Technology, AGH University of Science and Technologu, Mickiewieza Av.30, 30-059 Cracow, Poland.

Wade, L.G. (2006) *Organic Chemistry*. 6th edn. Hoboken, New Jersey: Prentice Hall.

Zhao, X., Joseph, B., Kuhn, J. N., & Ozcan, S. (2020). Biogas reforming to syngas: A review. iScience, 23(5), Article 101082. https://doi.org/10.1016/j.isci.2020.101082

Zimmermann, H. and Walzl, R. (2009) 'Ethylene', *Ullmann's Encyclopedia of Industrial Chemistry* [Preprint]. doi:10.1002/14356007.a10_045.pub3.