



DAFTAR PUSTAKA

- Aan, 2021, Preparasi Sampel, Kalimantan Tengah, Sulung Research Station
- Anggoro, D. D., 2003, “Modifikasi HZSM-5 Zeolite dengan Logam Gallium untuk Konversi Metana” *Teknologi Proses Kimia*, pp. 1–8
- Beznis, Nadzeya V., et al, 2010, Cu-ZSM-5 Zeolites for the Formation of Methanol from Methane and Oxygen: Probing the Active Sites and Spectator Species”, *Catal Lett*, no. 138, pp. 14-22
- Chen, C., Wei, Y., & Yang, H. 2021. “Zeolite ZSM-5 Catalysts for Methanol-to-Hydrocarbon Conversion: Advances and Challenges”. *ACS Catalysis*, 11(1), 167-189
- Corma, A. 2003. “From Microporous to Mesoporous Molecular Sieve Materials and Their Use in Catalysis”. *Chemical Reviews*, 103(11), 4307-4366
- Hammond, Ceri, et al., 2013, “Elucidation and evolution of the active component within Cu/Fe/ZSM-5 for catalytic methane oxidation: From synthesis to catalysis”, *ACS 6Catal.*, vol. 3, no. 4, pp. 689–699, doi: 10.1021/cs3007999
- Han, S., Li, Z., & Li, X., 2017, Synthesis of mesoporous ZSM-5 zeolite with enhanced catalyst performance for aromatization of n-hexane. *Journal of Molecular Catalysis A: Chemical*, 426, 427-435
- Li, Z., Zhang, Y., Zhang, X., Zhang, Q., Guo, X., & Wang, X., 2020, Enhanced catalytic performance of hydrothermally treated ZSM-5 zeolite for biomass conversion. *Catalysts*, 10(1), 97
- Liu, Y., Fan, W., Guo, Y., He, Y., Zhang, Y., & Wang, Y., 2018, A novel strategy for ZSM-5 zeolite modification with aluminium incorporation via cation-exchange process. *Applied Catalysis B: Environmental*, 220, 77-84
- Maesen, T., dan Marcus, B., 2001, “Chapter 1 The zeolite scene—An overview”, *Stud. Surf. Sci. Catal.*, vol. 137, no. C, pp. 1–9
- Mukaromah, Ana Hidayati, “Karakterisasi Membran Zeolit ZSM-5 Berdasarkan Variasi Jenis Dan Ukuran Kasa Dengan Pre-Treatment Direndam Dalam



- NaOH, HCl, Dan elektro-oksidasi Dengan H_2SO_4 ", Jurnal Prosiding Seminar Nasional Unimus vol. 1, no. 121, pp. 194-205
- Mustahiroh, Siti, 2020, Pengaruh Penambahan Zeolit ZSM-5, HZSM-5 Dan HZSM-48 Sebagai Aditif Terhadap Sifat Fisika Kimia Katalis $\text{Como}/\gamma\text{-Al}_2\text{O}_3$, Jakarta, Universitas Islam Negeri Syarif Hidayatullah
- Nurdin, Hendri, 2019, Metalurgi Logam, Padang, UNP Press
- Osman M., Atanda L., Hossain M. M. and Al-Khattaf S. (2013) Kinetics modeling of disproportionation and ethylation of ethylbenzene over HZSM-5: Effects of $\text{SiO}_2/\text{Al}_2\text{O}_3$ ratio. *Chem. Eng. J.* 222, 498–511.
- Pandiangan, Kamisah D., et al., 2020, "Uji Aktivitas Katalitik Zsm-5 Yang Disintesis Dari Silika Sekam Padi Dan Al(OH)_3 Pada Reaksi Transesterifikasi Minyak Kelapa Sawit", *Analit: Analytical and Environmental Chemistry*, Volume 5, No.01
- Ramírez, J. (2009). Controlling Zeolite Catalysts at Multiple Scales for Optimum Function. *Accounts of Chemical Research*, 42(4), 621-629
- Setiabudi. Agus, Hardian. Rifan dan Mudzakir. Ahmad, 2012, Karakterisasi Material Prinsip dan Aplikasinya dalam Penelitian Kimia. Bandung. UPI Press
- Setiawan, Adhi, et al., 2021, "Adsorpsi Cu(Ii) Menggunakan Zeolit Sintesis Kombinasi Abu Terbang Dan Abu Dasar Dengan Variasi Waktu Aging", *Jurnal Riset Teknologi Industri*, Vol. 15 No. 1
- Sharma, R., et al., 2020, "Approaches for selective oxidation of methane to methanol", *Catalysts*, Vol. 10, No. 2
- Soltani, Samira, et al., 2024, "Pengaruh Rasio Si/Al Zeolit ZSM-12 terhadap Morfologi, Keasaman dan Ukuran Kristal untuk Kinerja Katalitik dalam Proses HTO", *Royal Society of Chemistry*, 14, 5380-5389
- Widayat, W., & Annisa, AN, 2017, "Sintesis dan Karakterisasi Katalis ZSM-5 pada Temperatur Berbeda", *Research Society of Indonesia Meeting*, IOP Publishing Ltd



- Xu, J., Li, G., Wang, Y., & Peng, Y., 2019, Advances in the modification of ZSM-5 zeolite for biomass conversion. *Catalysts*, 9(8), 665
- Ye, Changshen, et al., 2020, “Preparation of a Fe-ZSM-5 Adsorbent and Its Selective Adsorption of p-Xylene Performance Exploration”, *Journal of Chemical Engineering data*
- Yuhermita. N.M, et al., 2021, “Perengkahan Katalitik Minyak Jelantah Menggunakan Katalis Co- Carbon Yang Dihasilkan dengan Metode *Ion Exchange*”, *Jurnal BiGME*, vol. 1, no. 1, pp. 1-22
- Zainul. Rahadian, 2021, *Teknik Karakterisasi Kimia Fisika*, Solok, Berkah Prima