

DAFTAR PUSTAKA

- Aggarwal, C. C. (2018). Neural Networks and Deep Learning. *Springer*.
- Atkins, P., & Paula, J. d. (2006). *Physical Chemistry for the Life Sciences*. New York: Oxford University Press.
- Basenbacher, F., & al, e. (2007). Recent STM, DFT and HAADF-STEM studies of sulfide-based hydrotreating catalysts: Insight into mechanistic, structural and particle size effects. *Catalysis*, CXXX(5), 86-96.
- Bremmer, J., & al, e. (2016). Instability of NiMoS₂ and CoMoS₂ Hydrodesulfurization Catalysts at Ambient Conditions. *Journal of Physical Chemistry*, CXI(34), 19204-19211.
- Britannica. (2010). *Promotor catalysis*. Retrieved Mei 15, 2022, from Britannica Science: <https://www.britannica.com/science/promoter-catalysis>
- Bunker, G. (2010). *Introduction to XAFS A Practical Guide to X-ray Absorption Fine Structure Spectroscopy*. Cambridge: Cambridge University Press.
- Butler, R. A. (2009). *Kenapa Biofuels Menggerakkan Penggundulan Hutan?*
- Calvin, S. (2013). *XAFS for Everyone*. New York: CRC Press.
- chem.fsu.edu. (2016). *Activation Energy*. Retrieved Juni 20, 2022, from <https://web.archive.org/web/20161207175516/http://www.chem.fsu.edu/chemlab/chm1046course/activation>
- Czernik, S., & Bridgewater, A. V. (2008). Overview of Applications of Biomass Fast Pyrolysis Oil. *ACS Publications*, 18(2), 590-598.
- Demirbas, A. (2001). Biomass Resource Facilities and Biomass Conversion Processing for Fuels and Chemicals. *Energy Convers*, 42, 1357-1378.

- Furmisky, E. (2000). Catalytic hydrodeoxygenation. *Applied Catalysis A: General*, 199(2), 147-190.
- Giustino, F. (2014). *Materials Modeling using Density Functional Theory*. Inggris: Oxford University Press.
- Groß, A. (2002). *Theoretical Surface Science: A Microscopic Perspective*. Berlin: Springer Varlag.
- Henkelman, G., Uberuaga, B. P., & Jónsson, H. (2000). A climbing image nudged elastic band method for finding saddle points and minimum energy paths. *The Journal of Chemical Physics*, 113(22), 9901-9904.
- Hoffmann, F. M. (1983). Infrared reflection-absorption spectroscopy of adsorbed molecules. *Surface Science Reports*, 3(2-3), 107.
- Iwasawa, Y., Asakura, K., & Tada, M. (2017). *XAFS Techniques for Catalysts, Nanomaterials, and Surfaces*. Switzerland: Springer.
- Koningsberger, D. C., & Prins, R. (1988). *X-ray Absorption: Principles, Applications, Techniques of EXAFS, SEXAFS, and XANES*. New Jersey: John Wiley and Sons.
- Lauritisen, J., & al, e. (2007). Location and Coordination of Promoter Atoms in Cobalt Ni-promoted MoS₂-based Hydrotreating Catalysts. *Journal of Catalysis*, CCXLIX(3), 230-233.
- Lee, J. G. (2017). *Computational Materials Science : An Introduction Second Edition*. New York: CRC Press.
- Lee, J., & al, e. (2012). *Computational Materials Science An Introduction Second Edition*. New York: CRC Press.
- F, Oemry., & al, e. (2012). Effect of Cluster Size on Platinum-Oxygen Bonds in Small Platinum Clusters. *Japanese Journal of Applied Physics*, (51).

- Martincova, J., Otyepka, M., & Lazar, P. (2017). Single Layer MoS₂ Stable in the Air?. *Chemistry A European Journal, XXIII*, 13233-13239.
- Michel, C., & Stanislas, J. T. (1962). Infrared Studies of CO, O₂, and CO₂ Gases and Their Interaction Products, Chemically Adsorbed on Nickel Oxide. *Journal of Catalysis 1*. 121-135
- Mora, I. M. (2017). Effect of Support Modification for CoMo/y Al₂O₃ and CoMo/ASA Catalysts in the Hydrodeoxygenation of guaiacol. *Applied Catalysts*, 59.
- Mortensen, P., & al, e. (2011). A Review of Catalytic Upgrading of BIo-oil to Engine Fuels. *Applied Catalysis A, CDVII(1)*, 1-19.
- Mukundan, S., & al, e. (2015). Guaiacol Hydrodeoxygenation Reaction Catalyzed by Highly Dispersed, Single Layered MoS₂/C. *Catalysis Sciences and Technology, V(3)*, 22-44.
- Nave, R. (2016). *Schrodinger Equation*. Retrieved Mei 14, 2022, from Hyper Physics: <http://hyperphysics.phy-astr.gsu.edu/hbase/quantum/schr.html>
- Prastowo, B., & Richana, N. (2014). *Biofuel Generasi-1 dan Generasi-2*. Jakarta: IAARD Press.
- Pusat Studi Energi UGM. (2011). *Biofuel dan Biomassa*. Retrieved Mei 3, 2022, from PSE UGM: <https://pse.ugm.ac.id/biofuel-dari-biomassa/>
- Rutz, D., & Janssen, R. (2007). *Biofuel Technology Handbook*. Munchen: WIP Renewable Energies.
- Song, C., Yoosuk, B., Kim, J. H., & Prasassarakich, P. (n.d.). Highly active dispersed MoS₂ catalyst prepared by hydrothermal synthesis for hydrosulfurization of 4,6 dimethylbibenzothiophene. *in 234th ACS National Meeting, Abstract of Scientific Papers*.

- Sulistyani, E. T. (2012). Teori Fungsional Densitas dan Penerapannya pada Struktur Atom. *Prosiding Pertemuan Ilmiah XXVI HFI Jateng dan DIY*. Purworejo.
- Teo, B. K. (2012). *EXAFS: Basic Principles and Data Analysis*. New York: Springer.
- Timberlake, K., & Timberlake, W. (2017). *Basic Chemistry* (5th ed.). Harlow: Pearson.
- Wong, M. W. (1996). Vibrational frequency prediction using density functional theory. *Chemical Physics Letters*, 256, 391-399.
- Zhou, Q., Yong, Y., Su, X., ju, W., & Li, X (2017). Adsorption behavior of SO₂ on vacancy-defected graohene: A DFT study. *Journal of Physics and Chemistry of solid*, CIX(16), 40-45.

