

DAFTAR PUSTAKA

- [1] O. M. Yaghi, G. Li dan H. Li, "Selective Binding and Removal of Guest in a Microporous Metal-Organic Framework," *Nature*, vol. 378, pp. 703-706, 1995.
- [2] B. Seyyedi, "Metal-Organic Frameworks: A New Class of Crystalline Porous Materials," *Johnson Matthey Technology Review*, vol. 59, pp. 123-125, 2015.
- [3] J. R. Li, J. Sculley dan H. C. Zhou, "Metal-Organic Frameworks for Separations," *Chemical Reviews*, vol. 112, pp. 869-932, 2012.
- [4] J. Gascon, U. Aktay, M. D. H. Alonso, G. P. M. Klink dan F. Kapteijn, "Amino-Based Metal Organic Frameworks as Stable, Highly Active Basic Catalysts," *Journal of Catalysis*, vol. 261, pp. 75-87, 2009.
- [5] L. E. Kreno, K. Leong, O. K. Farha, M. Allendorf, R. P. V. Duyne dan J. T. Hupp, "Metal-Organic Frameworks Materials as Chemical Sensor," *Chemical Reviews*, vol. 112, pp. 1105-1125, 2012.
- [6] S. Keskin dan S. Kizilel, "Biomedical Applications of Metal Organic Frameworks," *Industrial & Engineering Chemistry Research*, vol. 50, pp. 1799-1812, 2011.
- [7] P. Z. Moghadam, A. Li, S. B. Wiggin, A. Tao, A. G. P. Maloney, P. A. Wood, S. C. Ward dan D. F. Jimenez, "Development of a Cambridge Structural Database Subset: A Collection of Metal-Organic Frameworks for Past, Present, and Future," *Chemistry of Material*, vol. 29, pp. 2618-2625, 2017.
- [8] S. S.-Y. Chui, S. M.-F. Lo, J. P. H. Charmant, A. G. Orpen dan I. D. Williams, "A Chemically Functionalizable Nanoporous Material [Cu₃(TMA)₂(H₂O)₃]_n," *Science*, vol. 283, pp. 1148-1150, 1999.
- [9] J. L. C. Rowsell dan O. M. Yaghi, "Metal-Organic Frameworks: A New Class of Porous Materials," *Journal of Microporous and Mesoporous Materials*, vol. 73, pp. 3-14, 2004.
- [10] U. Mueller, H. Puetter, M. Hesse, M. Schrubert, H. Wessel, J. Huff dan M. Guzmán, "Method for Electrochemical Production of a Crystalline Porous Metal Organic Skeleton Material". United States of America Paten US7968739B2, 28 Juni 2011.



- [11] N. T. Phuong, C. B. Herman, N. T. Thom, P. T. Nam, T. D. Lam dan D. T. M. Thanh, "Synthesis of Cu-BTC, From Cu and Benzene-1,3,5-Tricarboxylic Acid (H₃BTC), by a Green Electrochemical Method," *Green Processing and Synthesis*, vol. 5, pp. 537-547, 2016.
- [12] R. S. Kumar, S. S. Kumar dan M. A. Kulandainathan, "Efficient Electrosynthesis of Highly Active Cu₃(BTC)₂-MOF and Its Catalytic Application to Chemical Reduction," *Journal of Microporous and Mesoporous Materials*, vol. 168, pp. 57-64, 2013.
- [13] W. W. Lestari, R. E. Nugraha, I. D. Winarni, M. Andreane dan F. Rahmawati, "Optimization on Electrochemical Synthesis of HKUST-1 as Candidate Catalytic Material for Green Diesel Production," dalam *AIP Conference Proceedings*, 2016.
- [14] D. Zhang dan Q. Xu, "Solubility of 1,3,5-Benzenetricarboxylic Acid in Different Solvents," *Journal of Chemical & Engineering Data*, vol. 61, pp. 1003-1006, 2016.
- [15] W. W. Lestari, M. Adreane dan H. Suwarno, "Enhanced Hydrogen Storage Capacity over Electro-synthesized HKUST-1," *Journal of Mathematical and Fundamental Sciences*, vol. 49, pp. 213-224, 2017.
- [16] M. A. Carreon dan S. R. Venna, *Metal-Organic Framework Membranes for Molecular Gas Separations*, Colorado: World Scientific, 2020.
- [17] M. Berger, "What is a MOF (metal organic framework)?," Nano Werk, [Online]. Available: <https://www.nanowerk.com/mof-metal-organic-framework.php>. [Diakses 18 Januari 2021].
- [18] H. Li, M. Eddaoudi, M. O'Keeffe dan O. M. Yaghi, "Design and Synthesis of An Exceptionally Stable and Highly Porous Metal-Organic Framework," *Nature*, vol. 402, pp. 276-279, 1999.
- [19] S. S.-Y. Chui, S. M.-F. Lo, J. P. H. Charmant, A. G. Orpen dan I. D. Williams, "Cambridge Crystallographic Data Centre," 1999. [Online]. Available: <https://www.ccdc.cam.ac.uk/structures/search?id=doi:10.5517/cc3sjp2&sid=DataCite>. [Diakses 24 Januari 2021].
- [20] U. Mueller, M. Schrubert, F. Teich, H. Puetter, K. Schierle-Arndt dan J. Pastre, "Metal-Organic Frameworks--Prospective Industrial Applications," *Journal of Materials Chemistry*, vol. 16, pp. 626-636, 2006.



- [21] W. W. Lestari, M. Adreane, C. Purnawan, H. Fansuri, N. Widiastuti dan S. B. Rahardjo, "Solvothermal and Electrochemical Synthetic Method of HKUST-1 and Its Methane Storage Capacity," dalam *IOP Conference Series: Materials Science and Engineering*, 2016.
- [22] A. J. Howarth, A. W. Peters, N. A. Vermeulen, T. C. Wang, J. T. Hupp dan O. K. Farha, "Best Practices for the Synthesis, Activation, and Characterization of Metal-Organic Frameworks," *Chemistry of Materials*, vol. 29, pp. 26-39, 2017.
- [23] S. Brunauer, P. H. Emmett dan E. Teller, "Adsorption of Gases in Multimolecular Layers," *Journal of the American Chemical Society*, vol. 60, pp. 309-319, 1938.
- [24] E. Sharmin dan F. Zafar, *Modern Inorganic Synthetic Chemistry*, ExLi4EvA, 2016.
- [25] M.-L. Tong dan X.-M. Chen, *Modern Inorganic Synthetic Chemistry (Second Editions)*, Amsterdam: Elsevier, 2017.
- [26] P. Schäfer, "Electrochemical Growth of CuBTC: Improving The Synthesis Toolkit Through Mechanistic," Max-Planck Institute for Polymer Research.
- [27] N. Campagnol, T. R. C. V. Assche, M. Li, L. Stappers, M. Dinca, J. F. M. Denayer, K. Binnemans, D. E. D. Vos dan J. Fransaer, "On The Electrochemical Deposition of Metal–Organic Frameworks," *Journal of Materials Chemistry A*, vol. 4, pp. 1-13, 2016.
- [28] R. Jenkins dan R. L. Snyder, *Introduction to X-Ray Powder Diffractometry*, New York: John Wiley & Son Inc., 1996.
- [29] A. Mohammed dan A. Abdullah, "Scanning Electron Microscopy (SEM): A Review," dalam *Proceedings of 2018 International Conference on Hydraulics and Pneumatics*, Băile Govora, 2018.
- [30] S. Lowell, J. E. Shields, M. A. Thomas dan M. Thommes, *Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density*, New Year: Springer Science + Business Media, llc, 2004.
- [31] E. P. Barrett, L. G. Joyner dan P. P. Halenda, "The Determination of Pore Volume and Area Distributions in Porous Substances. I. Computations from Nitrogen Isotherms," *Journal of the American Chemical Society*, vol. 73, p. 373–380, 1951.



- [32] K. S. W. Sing, D. H. Everett, R. A. W. Haul, L. Moscou, R. A. Pierotti, J. Rouquérol dan T. Siemieniewska, “Reporting Physisorption Data for Gas/Solid Systems with Special Reference to the Determination of Surface Area and Porosity,” *International Union of Pure and Applied Chemistry*, vol. 57, pp. 603-619, 1985.
- [33] E. F. Purnama, S. Nikmatin dan R. Langenati, “Pengaruh Suhu Reaksi Terhadap Derajat Kristalinitas dan Komposisi Hidroksiapatit Dibuat Dengan Media Air dan Cairan Tubuh Buatan (Synthetic Body Fluid),” *Jurnal Sains Materi Indonesia*, pp. 154-162, 2006.
- [34] B. Panella, M. Hirscher, H. Pütter dan U. Müller, “Hydrogen Adsorption in Metal–Organic Frameworks: Cu-MOFs and Zn-MOFs Compared,” *Advanced Functional Materials*, vol. 16, pp. 520-524, 2016.

