

## DAFTAR PUSTAKA

- Ahmad Para, T. and Kanti Sarkar, S., 2021, Challenges in Rietveld Refinement and Structure Visualization in Ceramics, *Adv. Ceram. Mater.*, 1–33.
- Akhundzadeh Tezerjani, A., Halladj, R., and Askari, S., 2021, Different view of solvent effect on the synthesis methods of zeolitic imidazolate framework-8 to tuning the crystal structure and properties, *RSC Adv.*, 11, 19914–19923.
- Constantia, M., 2022, Determinants of CO<sub>2</sub> Emission Intensity: Manufacturing Firm-Level Evidence in Indonesia, *J. Perenc. Pembang. Indones. J. Dev. Plan.*, 6, 402–419.
- Cravillon, J., Münzer, S., Lohmeier, S.J., Feldhoff, A., Huber, K., and Wiebcke, M., 2009, Rapid room-temperature synthesis and characterization of nanocrystals of a prototypical zeolitic imidazolate framework, *Chem. Mater.*, 21, 1410–1412.
- Eddaoudi, M., Kim, J., Rosi, N., Vodak, D., Wachter, J., O’Keeffe, M., and Yaghi, O.M., 2002, Systematic design of pore size and functionality in isorecticular MOFs and their application in methane storage, *Science (80-. )*, 295, 469–472.
- Fischer, M. and Bell, R.G., 2014, Interaction of hydrogen and carbon dioxide with sod-type zeolitic imidazolate frameworks: A periodic DFT-D study, *CrystEngComm*, 16, 1934–1949.
- Godin, J., Liu, W., Ren, S., and Xu, C.C., 2021, Advances in recovery and utilization of carbon dioxide: A brief review, *J. Environ. Chem. Eng.*, 9, 105644.
- Gong, X., Wang, Y., and Kuang, T., 2017, ZIF-8-Based Membranes for Carbon Dioxide Capture and Separation, *ACS Sustain. Chem. Eng.*, 5, 11204–11214.
- He, M., Yao, J., Liu, Q., Wang, K., Chen, F., and Wang, H., 2014, Microporous and Mesoporous Materials Facile synthesis of zeolitic imidazolate framework-8 from a concentrated aqueous solution, *Microporous Mesoporous Mater.*, 184, 55–60.
- Hu, Y., Liu, Z., Xu, J., Huang, Y., and Song, Y., 2013, Evidence of pressure enhanced CO<sub>2</sub> storage in ZIF-8 probed by FTIR spectroscopy, *J. Am. Chem. Soc.*, 135, 9287–9290.

- Jian, M., Liu, B., Liu, R., Qu, J., Wang, H., and Zhang, X., 2015, Water-based synthesis of zeolitic imidazolate framework-8 with high morphology level at room temperature, *RSC Adv.*, 5, 48433–48441.
- Kaneti, Y.V., Dutta, S., Hossain, S.A., Shiddiky, M.J.A., Tung, K., Shieh, F., Tsung, C., Wu, K.C., and Yamauchi, Y., 2017, Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications, 1700213, 1–31.
- Kida, K., Okita, M., Fujita, K., Tanaka, S., and Miyake, Y., 2013, Formation of high crystalline ZIF-8 in an aqueous solution, *CrystEngComm*, 15, 1794–1801.
- Kumar, D., Kumar, A., Prakash, R., and Singh, A.K., 2019, X-ray Diffraction Analysis of Cu<sup>2+</sup> Doped Zn<sub>1-x</sub>Cu<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> Spinel Nanoparticles using Williamson-Hall Plot Method, *AIP Conf. Proc.*, 2142, 4–8.
- Lee, Y.R., Jang, M.S., Cho, H.Y., Kwon, H.J., Kim, S., and Ahn, W.S., 2015, ZIF-8: A comparison of synthesis methods, *Chem. Eng. J.*, 271, 276–280.
- Liu, D., Wu, Y., Xia, Q., Li, Z., and Xi, H., 2013, Experimental and molecular simulation studies of CO<sub>2</sub> adsorption on zeolitic imidazolate frameworks: ZIF-8 and amine-modified ZIF-8, *Adsorption*, 19, 25–37.
- Maia, R.A., Louis, B., Gao, W., and Wang, Q., 2021, CO<sub>2</sub> adsorption mechanisms on MOFs: A case study of open metal sites, ultra-microporosity and flexible framework, *React. Chem. Eng.*, 6, 1118–1133.
- Morris, W., Leung, B., Furukawa, H., Yaghi, O.K., He, N., Hayashi, H., Houndonougbo, Y., Asta, M., Laird, B.B., and Yaghi, O.M., 2010, A combined experimental-computational investigation of carbon dioxide capture in a series of isorecticular zeolitic imidazolate frameworks, *J. Am. Chem. Soc.*, 132, 11006–11008.
- Mote, V., Purushotham, Y., and Dole, B., 2012, Williamson-Hall analysis in estimation of lattice strain in nanometer-sized ZnO particles, *J. Theor. Appl. Phys.*, 6, 2–9.
- Pambudi, F.I. and Prasetyo, N., 2022, Theoretical investigation on the structure of mixed-metal zeolitic imidazolate framework and its interaction with CO<sub>2</sub>,

*Comput. Mater. Sci.*, 210, .

- Pan, Y., Heryadi, D., Zhou, F., Zhao, L., Lestari, G., Su, H., and Lai, Z., 2011, Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants, *CrystEngComm*, 13, 6937–6940.
- Pan, Y., Liu, Y., Zeng, G., Zhao, L., and Lai, Z., 2011, Rapid synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals in an aqueous system, *Chem. Commun.*, 47, 2071–2073.
- Park, K.S., Ni, Z., Cote, A.P., Choi, J.Y., Huang, R., Uribe-Romo, F.J., Chae, H.K., O’Keeffe, M., and Yaghi, O.M., 2006, ZIFs - first synthesis, *Proc. Natl. Acad. Sci.*, 103, 10186–10191.
- Pérez-Pellitero, J., Amrouche, H., Siperstein, F.R., Pirngruber, G., Nieto-Draghi, C., Chaplais, G., Simon-Masseron, A., Bazer-Bachi, D., Peralta, D., and Bats, N., 2010, Adsorption of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub> on zeolitic imidazolate frameworks: Experiments and simulations, *Chem. - A Eur. J.*, 16, 1560–1571.
- Purawiardi, I., 2021, Analisis pelebaran puncak difraksi sinar-x pada pasir besi titan Yogyakarta: Ukuran kristalit, regangan kisi dan probabilitas mineral, *J. Teknol. Miner. dan Batubara*, 17, 77–85.
- Ren, Y., Luan, W., and Jiang, T., 2020, Surfactant CTAB Controlled Synthesis of ZIF-8 Supported Pt for Oxygen Reduction Catalyst,.
- Rosnes, M.H., Nesse, F.S., Opitz, M., and Dietzel, P.D.C., 2019, Morphology control in modulated synthesis of metal-organic framework CPO-27, *Microporous Mesoporous Mater.*, 275, 207–213.
- Tan, P.C., Ooi, B.S., Ahmad, A.L., and Low, S.C., 2017, Size control and stability study of zeolitic imidazolate framework-8 to prepare mixed matrix membrane, *J. Phys. Sci.*, 28, 215–226.
- Thomas, A., Maiyelvaganan, K.R., Kamalakannan, S., and Prakash, M., 2019, Density Functional Theory Studies on Zeolitic Imidazolate Framework-8 and Ionic Liquid-Based Composite Materials, *ACS Omega*, 4, 22655–22666.
- Wang, Y., Zhang, C., Bi, S., and Luo, G., 2010, Preparation of ZnO nanoparticles using the direct precipitation method in a membrane dispersion micro-structured reactor, *Powder Technol.*, 202, 130–136.