

## DAFTAR PUSTAKA

- Abdul Rahman, I., Acep Purqon, dan, Fisika Bumi dan Sistem Kompleks, K., & Fisika, D. (2015). *Studi Density Functional Theory (DFT) dan Aplikasinya Pada Perhitungan Struktur Elektronik Monolayer MoS 2*.
- Amaliyah, F. F., & Abraha, K. (2019). Determination of the optical properties of ferromagnetic nanoparticles for the Bloch electron system using the DFT method. *International Conference on SCience and Applied Science (ICSAS)*, 2202(1).
- Bernardi, J. (2021). Energy-dispersive X-ray spectroscopy. In *Imaging Modalities for Biological and Preclinical Research: A Compendium, Volume 1: Part I: Ex vivo biological imaging*. IOP Publishing. <https://doi.org/10.1088/978-0-7503-3059-6ch41>
- Bérubé, V., Radtke, G., Dresselhaus, M., & Chen, G. (2007). Size effects on the hydrogen storage properties of nanostructured metal hydrides: A review. In *International Journal of Energy Research* (Vol. 31, Issues 6–7, pp. 637–663). <https://doi.org/10.1002/er.1284>
- Bunaciu, A. A., Udriștioiu, E. gabriela, & Aboul-Enein, H. Y. (2015). X-Ray Diffraction: Instrumentation and Applications. In *Critical Reviews in Analytical Chemistry* (Vol. 45, Issue 4, pp. 289–299). Taylor and Francis Ltd. <https://doi.org/10.1080/10408347.2014.949616>
- Chao, B. S., Young, R. C., Myasnikov, V., Li, Y., Huang, B., Gingl, F., Ferro, P. D., Sobolev, V., & Ovshinsky, S. R. (2004). *Recent Advances in Solid Hydrogen Storage Systems*.
- Deschamps, J. (2019). Hydrogen storage in two-dimensional and three-dimensional materials. In *2D Nanomaterials for Energy Applications: Graphene and Beyond* (pp. 227–243). Elsevier. <https://doi.org/10.1016/B978-0-12-816723-6.00009-5>

- Eremets, M., & Troyan, I. (2011). Metallization of Molecular Hydrogen at High pressures. *Nature Materials*, 10(12), 927–931. <https://doi.org/10.1038/nmat3175>
- Herbirowo, S., Pramono, A. W., Hendrik, H., Nugraha, H., Puspasari, V., Imaduddin, A., Fatah, M. C., Sulistiyo, E., & Yuwono, A. H. (2023). Novel synthesis of LaH<sub>2</sub> and La<sub>2</sub>O<sub>3</sub> through mechanochemistry and sintering. *South African Journal of Chemical Engineering*, 46, 182–195. <https://doi.org/10.1016/j.sajce.2023.08.004>
- Hirscher, M., Yartys, V. A., Baricco, M., Bellosta von Colbe, J., Blanchard, D., Bowman, R. C., Broom, D. P., Buckley, C. E., Chang, F., Chen, P., Cho, Y. W., Crivello, J. C., Cuevas, F., David, W. I. F., de Jongh, P. E., Denys, R. V., Dornheim, M., Felderhoff, M., Filinchuk, Y., ... Zlotea, C. (2020). Materials for hydrogen-based energy storage – past, recent progress and future outlook. *Journal of Alloys and Compounds*, 827. <https://doi.org/10.1016/j.jallcom.2019.153548>
- Horiba Scientific. (2022). *A Guide Book to Particle Size Analysis*.
- Hwang, H. T., & Varma, A. (2015). Hydrogen Storage Methods for Fuel Cell Vehicles: Current Status. In *Reference Module in Chemistry, Molecular Sciences and Chemical Engineering*. Elsevier. <https://doi.org/10.1016/b978-0-12-409547-2.11132-1>
- Jones, R. O. (2015). Density functional theory: Its origins, rise to prominence, and future. *Reviews of Modern Physics*, 87(3). <https://doi.org/10.1103/RevModPhys.87.897>
- Kannan, M. (n.d.). *Scanning Electron Microscopy: Principle, Components and Applications*.
- Millet, P., Grosjean, S., Maurin, G., & Salles, F. (2014). Hydrogen Storage in Metal-Organic Frameworks: A Review. *Materials*, 7(2), 1225–1250. <https://doi.org/10.3390/ma7021225>
- Modi, P., & Aguey-Zinsou, K. F. (2021). Room Temperature Metal Hydrides for Stationary and Heat Storage Applications: A Review. In *Frontiers in Energy Research* (Vol. 9). Frontiers Media S.A. <https://doi.org/10.3389/fenrg.2021.616115>

- Muhammed, N. S., Haq, M. B., Al Shehri, D. A., Al-Ahmed, A., Rahman, M. M., Zaman, E., & Iglauer, S. (2023). Hydrogen storage in depleted gas reservoirs: A comprehensive review. In *Fuel* (Vol. 337). Elsevier Ltd. <https://doi.org/10.1016/j.fuel.2022.127032>
- Piela, L. (2007). ELECTRONIC MOTION IN THE MEAN FIELD: ATOMS AND MOLECULES. In *Ideas of Quantum Chemistry* (pp. 324–427). Elsevier. <https://doi.org/10.1016/B978-044452227-6/50009-0>
- Pramono, A. W., Herbirowo, S., Imaduddin, A., Antoro, I. D., Nugraha, H., Hendrik, Syampurwadi, A., Nufus, I. H., Umna, N., Diba, S. F., & Amaliyah, F. F. (2024). The mechanochemistry of lanthanum dihydride (LaH<sub>2</sub>) with hydrogen (H<sub>2</sub>) using the ball-mill process and the effect of oxidation on the resulting products. *Journal of Metals, Materials and Minerals*, 34(2). <https://doi.org/10.55713/jmmm.v34i2.1825>
- Rivard, E., Trudeau, M., & Zaghib, K. (2019). Hydrogen storage for mobility: A review. In *Materials* (Vol. 12, Issue 12). MDPI AG. <https://doi.org/10.3390/ma12121973>
- Salehabadi, A. (2020). *SPRINGER BRIEFS IN APPLIED SCIENCES AND TECHNOLOGY Solid-State Hydrogen Storage Materials*. <http://www.springer.com/series/8884>
- Singh, B. K., Cho, S.-W., & Bartwal, K. S. (2009). Effect on structure and hydrogen storage characteristics of composite alloys Ti0.32Cr0.43V0.25 with LaNi<sub>5</sub> and rare-earth elements La, Ce, Y. *Journal of Alloys and Compounds*, 478(1–2), 785–788. <https://doi.org/10.1016/j.jallcom.2008.12.011>
- Viswanathan, B. (2017). Hydrogen Storage. In *Energy Sources* (pp. 185–212).
- Yang, M., Hunger, R., Berrettoni, S., Sprecher, B., & Wang, B. (2023). A review of hydrogen storage and transport technologies. *Clean Energy*, 7(1), 190–216. <https://doi.org/10.1093/ce/zkad021>

- Zeng, Z., Li, J., Zhang, B., Ma, C., Xia, C., & Yang, T. (2024). Effects of lanthanum addition on hydrogen storage properties in Li–Mg–N–H system. *International Journal of Hydrogen Energy*, 66, 592–603. <https://doi.org/10.1016/j.ijhydene.2024.04.141>
- Zhu, X., Han, S., Zhao, X., Li, Y., & Liu, B. (2014). Effect of lanthanum hydride on microstructures and hydrogen storage performances of 2LiNH<sub>2</sub>-MgH<sub>2</sub> system. *Journal of Rare Earths*, 32(5), 429–433. [https://doi.org/10.1016/S1002-0721\(14\)60089-2](https://doi.org/10.1016/S1002-0721(14)60089-2)
- Ziabari, A., & Chang, G. (2023). *Quantum Espresso For Beginers*.
- Züttel, A., Sudan, P., Mauron, R., Jørgensen, C., & Schlapbach, H. (2003). Hydrogen Storage in Nanotubes and Carbon Materials. *Journal of Power Sources*, 118(1–2), 1–7.