

DAFTAR PUSTAKA

- Ali, A., Zhang, N., & Santos, R. M. (2023). *applied sciences Mineral Characterization Using Scanning Electron Microscopy (SEM): A Review of the Fundamentals , Advancements , and Research Directions*.
- Altuntaş, O. (2022). *Enhancement of impact toughness properties of Al 7075 alloy via double aging heat treatment*. 10(2), 195–202. <https://doi.org/10.29109/gujsc.1108116>
- Arun, S., Radhika, N., & Saleh, B. (2024). Advances in vacuum arc melting for high entropy alloys : A review. *Vacuum*, 226(January), 113314. <https://doi.org/10.1016/j.vacuum.2024.113314>
- Babilas, R., Młynarek, K., Łonski, W., Łukowiec, D., Kędziorka-Gaweł, M., Czeppe, T., & Temleitner, L. (2021). *Structural Characterization of Al 65 Cu 20 Fe 15 Melt-Spun Alloy by X-ray, Neutron Diffraction, High-Resolution Electron Microscopy and Mössbauer Spectroscopy 1.*.
- Buana, C., Tangko, J., Rasydman, A. A., & S, A. T. (2020). *Uji Mekanis Guide Vane dari Hasil Pengecoran Paduan Alumunium dan Tembaga*. 18(1), 126– 136.
- Budiarto, B., Antonius, D., & Putra, B. A. (2020). Analisis Pengaruh Waktu Artificial Age Terhadap Kekerasan, Densitas Dan Struktur Kristal Paduan Alumunium (7075) Untuk Bahan Sirip Roket. *Jurnal Kajian Ilmiah*, 20(1), 13–28. <https://doi.org/10.31599/jki.v20i1.67>
- Cai, Q., Cantor, B., Tong, V. S., Wang, F., Mendis, C. L., Chang, I. T. H., & Fan,
- Z. (2022). *Microstructure and Mechanical Properties of Ultrafine Quaternary Al-Cu-Si-Mg Eutectic Alloy*.
- Chen, L., Zhang, X., Zheng, W., Wang, M., Liu, B., & Sun, W. (2023). Investigation on corrosion behaviors and mechanical properties of TiB₂/7075Al composites with various particle contents. *Journal of Materials Research and Technology*, 23, 2911–2923. <https://doi.org/10.1016/j.jmrt.2023.01.222>

Das, R., Sethi, D., & Roy, B. S. (2021). Microstructure and mechanical characteristics of an in-situ synthesis of AA7075/TiB₂ metal matrix composite. *E3S Web of Conferences*, 309, 3–7. <https://doi.org/10.1051/e3sconf/202130901149>

Dewanto, H. A., Abdi, M. Z., Maulana, A., Zulfikar, A., & Tajalla, G. U. N. (2021). Sifat Mekanik Produk Metalurgi Serbuk dari Proses Ball Milling dengan Bahan Baku Al7075 Terhadap Variasi Temperatur Sinter dan Tekanan Kompaksi. *SPECTA Journal of Technology*, 5(2), 160–167. <https://doi.org/10.35718/specta.v5i2.311>

Djarmiko, A. B. (2021). *Perancangan Sirip Roket RX 450 Akibat Pengaruh Terjadinya Flutter*. November, 34–42.

Djarmiko, A. B., Rahmasari, F., Yuniati, E., & Budiarto, G. T. (2021). *Perancangan kekuatan sirip roket RX 450 seri 18 . 01 akibat pengaruh beban getaran Design of RX 450 series 18 . 01 rocket fin strength due to the effect of vibration load*. 27(3), 88–94.

Emani, S., Benedyk, J., & Nash, P. (2009). *Double aging and thermomechanical heat treatment of AA7075 aluminum alloy extrusions*. 6384–6391. <https://doi.org/10.1007/s10853-009-3879-8>

Gan, G., Yang, B., Zhang, B., Jiang, X., Shi, Y., & Wu, P. (2017). *Refining Mechanism of 7075 Al Alloy by In-Situ*. 1–11. <https://doi.org/10.3390/ma10020132>

Hua, G. (2023). *Microstructure and mechanical properties of extruded TiB₂ / 2024 aluminum matrix composites Microstructure and mechanical properties of extruded TiB₂ / 2024 aluminum matrix composites*. 10.

Ilmiah, J., & Muhammadiyah, U. (2022). *Sang pencerah*. 722–732.

Irawan, A. (2019). *ANALISA PENGUJIAN KEKERASAN MATERIAL BAJA KARBONRENDAH DAN BESI*. 7(2), 57–61.

Kamrani, S., Riedel, R., Reihani, S. M. S., & Kleebe, H. J. (2010). *Journal of Composite Materials*. <https://doi.org/10.1177/0021998309347570>

Keshavamurthy, R., Mageri, S., Raj, G., Naveenkumar, B., Kadakol, P. M., & Vasu, K. (2013). *Microstructure and Mechanical Properties of Al7075-TiB₂ in-situ composite*. 1(10), 6–10.

- Lei, Z., Bi, J., Chen, Y., Chen, X., Tian, Z., & Qin, X. (2020). Effect of TiB₂ content on microstructural features and hardness of TiB₂/AA7075 composites manufactured by LMD. *Journal of Manufacturing Processes*, 53(February), 283–292. <https://doi.org/10.1016/j.jmapro.2020.02.036>
- Lekatou, A. G., Sfikas, A. K., Sioulas, D., & Kanderakis, A. (2022). Sliding wear performance of Al – Co alloys fabricated by vacuum arc melting and correlation with their microstructure. *Materials Chemistry and Physics*, 276(November 2021), 125411. <https://doi.org/10.1016/j.matchemphys.2021.125411>
- Li, Z., Xiong, B., Zhang, Y., Li, X., Zhu, B., Liu, H., & Wang, F. (2012). X-RAY DIFFRACTION STUDY ON LATTICE CONSTANT OF SUPERSATURATED SOLID SOLUTION FOR AL BASED BINARY ALLOYS AND SELECTED AL-ZN-MG-CU ALLOYS. 1295–1296.
- Liu, Y., Wang, R., & Peng, C. (2021). *Microstructures and mechanical properties of in-situ TiB₂ / Al – x Si – 0.3Mg composites*. 31, 331–344. [https://doi.org/10.1016/S1003-6326\(21\)65499-7](https://doi.org/10.1016/S1003-6326(21)65499-7)
- Manoj, M., Jinu, G. R., Kumar, J. S., & Mugendiran, V. (2021). Effect of TiB₂ Particles on the Morphological , Mechanical and Corrosion Behaviour of Al7075 Metal Matrix Composite Produced Using Stir Casting Process AND CORROSION BEHAVIOUR OF AL7075 METAL MATRIX COMPOSITE PRODUCED. *International Journal of Metalcasting*, October. <https://doi.org/10.1007/s40962-021-00696-3>
- Manojkumar, S., & Mehta, K. K. (2023). *Materials Today : Proceedings Effect of TiB₂ on mechanical and corrosion properties of Al 7075 / TiB₂ / Gr composite prepared by stir casting*. 91, 62–66. <https://doi.org/10.1016/j.matpr.2023.05.033>
- Newbury, D. E., & Ritchie, N. W. M. (2019). *Electron-Excited X-ray Microanalysis by Energy Dispersive Spectrometry at 50 : Analytical Accuracy , Precision , Trace Sensitivity , and Quantitative Compositional Mapping*. <https://doi.org/10.1017/S143192761901482X>

- Panwar, N., & Chauhan, A. (2018). Parametric behaviour optimisation of macro and micro hardness for heat treated Al 6061-red mud composite. *Integrative Medicine Research*, 8(1), 660–669. <https://doi.org/10.1016/j.jmrt.2018.04.018>
- Ramandhany, S., Triyono, D., Sugiarti, E., & Sukarto, A. (2024). Effect of Structure Density of Milled Powder on Hot Corrosion and Erosion Resistance of HVOF-Sprayed Cr 3 C 2 -NiCr Coating. *Journal of Thermal Spray Technology*, 33(4), 1040–1064. <https://doi.org/10.1007/s11666-024-01720-8>
- Ramesh, S., Anne, G., Naik, G. M., Jagadeesh, C., & Nayaka, H. S. (2021). Materials Today : Proceedings Microstructural and mechanical characterisation of Al-Zn-Mg-Cu alloy processed by multi-directional cryo- forging. *Materials Today: Proceedings*, 46, 5752–5756. <https://doi.org/10.1016/j.matpr.2021.02.709>
- Rauf, F. A., Sappu, F. P., Lakat, A. M. A., Teknik, J., Universitas, M., & Ratulangi, S. (2018). *MICROHARDNESS VICKERS PADA BERBAGAI JENIS MATERIAL TEKNIK*. 5, 21–24.
- Ren, H., Liu, Y., Sun, Q., Jin, P., Tao, Y., & Kang, K. (2023). Materials Science & Engineering A Promoting strengthening and grain refinement of aluminum alloy during wire and arc additive manufacturing by adding TiB 2 particles. *Materials Science & Engineering A*, 888(2), 145805. <https://doi.org/10.1016/j.msea.2023.145805>
- Ria, D. S. B. . &. (2020). *Buku Ajar*.
- Saghiri, M. A. L. I., Asgar, K., Lotfi, M., Karamifar, K., Saghiri, A. L. I. M., Neelakantan, P., Gutmann, J. L., & Sheibaninia, A. (2012). *Back-scattered and secondary electron images of scanning electron microscopy in dentistry: a new method for surface analysis*. June 2011, 603–609. <https://doi.org/10.3109/00016357.2011.645057>
- Sahoo, B. P., & Das, D. (2021). *Investigation on Reinforcement Incorporation Factor and Microstructure of Al 7075 / Submicron-TiB 2 Metal Matrix Composites Processed through a Modified Liquid Metallurgy Technique*. 179–193.

- Salur, E., & Acarer, M. (2021). *Improving mechanical properties of nano-sized TiC particle reinforced AA7075 Al alloy composites produced by ball milling and hot pressing*. 27(January). <https://doi.org/10.1016/j.mtcomm.2021.102202>
- Saravanan, S., Sreenithi, A., Ajitha, M., Ilakkiyal, R., Narmatha, S. R., Rajkumar, S., & Karthikeyan, K. (2020). Tribological behaviour of aluminum alloy (AA7075) based hybrid composites. *IOP Conference Series: Materials Science and Engineering*, 923(1). <https://doi.org/10.1088/1757-899X/923/1/012053>
- Saputri et al, D. . (2022). *Investigasi Pola XRD dan ukuran kristal pada TiO₂ Terdoping Vanadium Menggunakan Aplikasi VESTA*. 3(Progressive Physics Journal), 2–8.
- Simsek, I., Nalcacioglu, C., & Ozyurek, D. (2019). *The Effects of Aging Temperature on the Corrosion and Electrical Conductivity in the AA7075 Alloy Produced by Powder Metallurgy Method*. 135(4), 722–725. <https://doi.org/10.12693/APhysPolA.135.722>
- Terentyev, D., Khvan, T., You, J., & Steenberge, N. Van. (2020). Development of chromium and chromium-tungsten alloy for the plasma facing components : Application of vacuum arc melting techniques. *Journal of Nuclear Materials*, 536, 152204. <https://doi.org/10.1016/j.jnucmat.2020.152204>
- Torres, J. H., Hernández, J. M., Vázquez, H., Meneses, V. M., Nacional, U., México, A. De, Estudios, F. De, Cuautitlán, S., De, C., Tecnológica, A., Jiménez, J., Atlamica, S. J., Izcalli, C., México, E. De, Nacional, U., México, A. De, Estudios, F. De, Cuautitlán, S., Izcalli, C., & México, E. De. (2015). *Microstructure and X-Ray Diffraction analysis of Al-Cu Couples Diffused at High Temperature*. 25(2), 37–41. <https://doi.org/10.14456/jmmm.2015.14>
- Wahyuni, D. (2009). *MAUPUN MATERIAL STRUKTUR DALAM*. 4(2), 86–92.
- Widyawati, F., & Monica, R. (2022). Pengaruh Ukuran Partikel Terhadap Sifat Fisik dan Mekanik Komposit Limbah Gergaji Kayu Jati dengan Matrik Resin Epoxy. *Tekniks Dan Sains*, 2(1 Januari), 46–52.

- Wang, K., Zhao, C., Song, Y., Wang, M., & Wang, F. (2024). *Dual Grain Refinement Effect for Pure Aluminum with the Addition of Micrometer-Sized TiB₂ Particles*. 1–13.
- Yadav, R., & Kumar, V. (2024). Analysis of Mechanical Properties and Manufacturing Process of Aluminum Series. *Journal of The Institution of Engineers (India): Series D*. <https://doi.org/10.1007/s40033-024-00750-4>
- Zedan, Y., Songmene, V., Samuel, F. H., Li, C., Songmene, V., & Samuel, F. H. (2023). *Effect of Aging Treatment on the Strength and Microstructure of*.
- Zhang, S., Chen, L., Li, Z., Zhao, G., & Zhang, C. (2024). Materials Science & Engineering A Investigation on microstructure and mechanical properties of in-situ TiB₂ / Al – Cu – Mg composite profile fabricated by porthole die extrusion. *Materials Science & Engineering A*, 786(March 2020), 139449. <https://doi.org/10.1016/j.msea.2020.139449>
- Zhang, X., Chen, L., Li, Z., Zhao, G., & Zhang, C. (2022). Materials Science & Engineering A Aging precipitation and its effects on mechanical properties of TiB₂ particulate reinforced 7075Al composite. *Materials Science & Engineering A*, 837(November 2021), 142742. <https://doi.org/10.1016/j.msea.2022.142742>.