

## DAFTAR PUSTAKA

- Al Ayubbi, I., Darmanto, S., & Ariwibowo, D. (2022). ANALISA PERBANDINGAN HASIL UJI TARIK PADA BEBERAPA SPESIMEN DENGAN LOAD CELL BERKAPASITAS 500 KN. *Jurnal Mekanova : Mekanikal, Inovasi dan Teknologi*, 8(2), 304. <https://doi.org/10.35308/jmkn.v8i2.6418>
- Ayukawa, Y., Suzuki, Y., Tsuru, K., Koyano, K., & Ishikawa, K. (2015). Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. *BioMed Research International*, 2015, 1–7. <https://doi.org/10.1155/2015/579541>
- Bombač, D., Terčelj, M., Kugler, G., & Peruš, I. (2018). Amelioration of surface cracking during hot rolling of AISI D2 tool steel. *Materials Science and Technology*, 34(14), 1723–1736. <https://doi.org/10.1080/02670836.2018.1475862>
- Budiman, H. (2016). ANALISIS PENGUJIAN TARIK (TENSILE TEST) PADA BAJA ST37 DENGAN ALAT BANTU UKUR LOAD CELL. *J-ENSITEC*, 3(01). <https://doi.org/10.31949/j-ensitec.v3i01.309>
- Callister, W. D. (2019). *Materials Science and Engineering*. Wiley.
- Chen, W. Z., Zhang, W. C., Zhang, L. X., & Wang, E. D. (2015). Property improvements in fine-grained Mg–Zn–Zr alloy sheets produced by temperature-step-down multi-pass rolling. *Journal of Alloys and Compounds*, 646, 195–203. <https://doi.org/10.1016/j.jallcom.2015.06.112>
- Chen, W., Zhen, H., Liu, F., Wu, B., Li, H., Wu, Z., Huang, J., Zhu, H., Li, L., & Xiong, Z. (2024). Experimental and Theoretical Study on Tensile Mechanical Properties of GFRP–Steel Composite Bars. *Buildings*, 14(8), 2513. <https://doi.org/10.3390/buildings14082513>
- Chen, Z., Qi, J., Liu, H., Sun, L., & Tian, Z. (2020). Research on Production Technology of Asymmetrically Hot Rolled Stainless Steel Clad Plate. *Materials Science Forum*, 996, 185–190. <https://doi.org/10.4028/www.scientific.net/MSF.996.185>
- Faizan, M., Bhat, J. A., El-Serehy, H. A., Moustakas, M., & Ahmad, P. (2022). Magnesium Oxide Nanoparticles (MgO-NPs) Alleviate Arsenic Toxicity in Soybean by Modulating Photosynthetic Function, Nutrient Uptake and Antioxidant Potential. *Metals*, 12(12), 2030. <https://doi.org/10.3390/met12122030>
- Feng, H., Wang, G., Jin, W., Zhang, X., Huang, Y., Gao, A., Wu, H., Wu, G., & Chu, P. K. (2016). Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. *ACS Applied*

- Materials & Interfaces*, 8(15), 9662–9673.  
<https://doi.org/10.1021/acsami.6b02241>
- Filho, P. P. R., Cavalcante, T. D. S., De Albuquerque, V. H. C., & Tavares, J. M. R. S. (2010). Brinell and Vickers Hardness Measurement Using Image Processing and Analysis Techniques. *Journal of Testing and Evaluation*, 38(1), 88–94.  
<https://doi.org/10.1520/JTE102220>
- Godavitarne, C., Robertson, A., Peters, J., & Rogers, B. (2017). Biodegradable materials. *Orthopaedics and Trauma*, 31(5), 316–320. <https://doi.org/10.1016/j.mporth.2017.07.011>
- Hale, C., Xu, Z., Fialkova, S., Rawles, J., & Sankar, J. (2024). Influence of Processing Temperature and Strain Rate on the Microstructure and Mechanical Properties of Magnesium Alloys Processed by Single-Pass Differential Speed Rolling. *Crystals*, 14(3), 262.  
<https://doi.org/10.3390/cryst14030262>
- Juan Hu, L., Peng, Y. H., Yong Li, D., & Rui Zhang, S. (2010). Influence of Dynamic Recrystallization on Tensile Properties of AZ31B Magnesium Alloy Sheet. *Materials and Manufacturing Processes*, 25(8), 880–887. <https://doi.org/10.1080/10426910903496805>
- Kalpakjian, s, & Schmid, S. (2006). *Manufacturing, engineering and technology SI 6th edition-serope kalpakjian and stephen schmid: Manufacturing, engineering and technology*.
- Liu, D., Bian, M. Z., Zhu, S. M., Chen, W. Z., Liu, Z. Y., Wang, E. D., & Nie, J. F. (2017). Microstructure and tensile properties of Mg-3Al-1Zn sheets produced by hot-roller-cold-material rolling. *Materials Science and Engineering: A*, 706, 304–310.  
<https://doi.org/10.1016/j.msea.2017.09.018>
- Liu, D., Liu, Z., & Wang, E. (2014). Effect of rolling reduction on microstructure, texture, mechanical properties and mechanical anisotropy of AZ31 magnesium alloys. *Materials Science and Engineering: A*, 612, 208–213.  
<https://doi.org/10.1016/j.msea.2014.06.034>
- Liu, Z.-K., Shang, S.-L., & Wang, Y. (2017). Fundamentals of Thermal Expansion and Thermal Contraction. *Materials*, 10(4), 410.  
<https://doi.org/10.3390/ma10040410>
- M. Glowacki. (2005). The mathematical modelling of thermo-mechanical processing of steel during multi-pass shape rolling. *Journal of Materials Processing Technology*, 336–343.
- Maulana, N. B., Tidar, U., & No, J. K. S. (n.d.). PENGARUH VARIASI BEBAN INDENTOR VICKERS HARDNESS TESTER TERHADAP HASIL UJI KEKERASAN MATERIAL ALUMINIUM DAN BESI COR. 1(10).

- Mousa, H. M., Chan, H. P., & Kim, C. S. (2017). Surface Modification of Magnesium and its Alloys Using Anodization for Orthopedic Implant Application. In M. Aliofkhazraei (Ed.), *Magnesium Alloys*. InTech. <https://doi.org/10.5772/66341>
- Murugesan, M., Yu, J.-H., Chung, W., & Lee, C.-W. (2023). Warm Deformation Behavior and Flow Stress Modeling of AZ31B Magnesium Alloy under Tensile Deformation. *Materials*, *16*(14), 5088. <https://doi.org/10.3390/ma16145088>
- Rahyussalim, A. J., Supriadi, S., Kamal, A. F., Marsetio, A. F., & Pribadi, P. M. (2019). Magnesium-carbonate apatite metal composite: Potential biodegradable material for orthopaedic implant. *AIP Conference Proceedings*, *2096*, 020021. <https://doi.org/10.1063/1.5096689>
- Rogachev, S. O., Bazhenov, V. E., Komissarov, A. A., Li, A. V., Ten, D. V., Yushchuk, V. V., Drobyshev, A. Yu., & Shin, K. S. (2023a). Effect of Hot Rolling on Structure and Mechanical Properties of Mg–Y–Zn–Mn Alloys. *Metals*, *13*(2), 223. <https://doi.org/10.3390/met13020223>
- Rogachev, S. O., Bazhenov, V. E., Komissarov, A. A., Li, A. V., Ten, D. V., Yushchuk, V. V., Drobyshev, A. Yu., & Shin, K. S. (2023b). Effect of Hot Rolling on Structure and Mechanical Properties of Mg–Y–Zn–Mn Alloys. *Metals*, *13*(2), 223. <https://doi.org/10.3390/met13020223>
- Setyadi, I., Sudiro, T., Hermanto, B., Oktari, P. R., Kamal, A. F., Rahyussalim, A. J., Suharno, B., & Supriadi, S. (2022). Fabrication of Magnesium-Carbonate Apatite by Conventional Sintering and Spark Plasma Sintering for Orthopedic Implant Applications. *Sains Malaysiana*, *51*(3), 883–894. <https://doi.org/10.17576/jsm-2022-5103-22>
- Sezer, N., Evis, Z., Said Murat Kayhan, Aydin Tahmasebifar, & Koç, M. (2018). Review of magnesium-based biomaterials and their applications. *Journal of Magnesium and Alloys* *6*, 23–43.
- Shechtman, Y., Sahl, S. J., Backer, A. S., & Moerner, W. E. (2014). Optimal Point Spread Function Design for 3D Imaging. *Physical Review Letters*, *113*(13), 133902. <https://doi.org/10.1103/PhysRevLett.113.133902>
- Sheng, Y., Tian, L., Wu, C., Qin, L., & Ngai, T. (2018). Biodegradable Poly(L-lactic acid) (PLLA) Coatings Fabricated from Nonsolvent Induced Phase Separation for Improving Corrosion Resistance of Magnesium Rods in Biological Fluids. *Langmuir*, *34*(36), 10684–10693. <https://doi.org/10.1021/acs.langmuir.8b02322>
- Shetty, S., & Nilsson, L. (2017). An evaluation of simple techniques to model the variation in strain hardening behavior of steel. *Structural*

- and Multidisciplinary Optimization*, 55(3), 945–957.  
<https://doi.org/10.1007/s00158-016-1547-6>
- Sulaeman, M., Budiman, H., & Koswara, E. (n.d.). *PROSES UJI DIMENSI, UJI KEKERASAN DENGAN METODE ROCKWELL DAN UJI KOMPOSISI KIMIA PADA CANGKUL DI BALAI BESAR LOGAM DAN MESIN (BBLM) BANDUNG*.
- Tiancai Xu, Yan Yang, Xiaodong Peng, Jiangfeng Song, & Fusheng Pan. (2019). *Overview of advancement and development trend on magnesium alloy*. 536–544.  
<https://doi.org/10.1016/j.jma.2019.08.001>
- Triyono, J., Sukanto, H., Saputra, R. M., & Smaradhana, D. F. (2020). The effect of nozzle hole diameter of 3D printing on porosity and tensile strength parts using polylactic acid material. *Open Engineering*, 10(1), 762–768. <https://doi.org/10.1515/eng-2020-0083>
- Tsukamoto, H. (2021). Tribological Characterization of Carbon Nanotube/Aluminum Functionally Graded Materials Fabricated by Centrifugal Slurry Methods. *Journal of Composites Science*, 5(10), 254. <https://doi.org/10.3390/jcs5100254>
- Walker, J., Shadanbaz, S., Woodfield, T. B. F., Staiger, M. P., & Dias, G. J. (2014). Magnesium biomaterials for orthopedic application: A review from a biological perspective. *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, 102(6), 1316–1331. <https://doi.org/10.1002/jbm.b.33113>
- Wang, W., Miao, Q., Chen, X., Yu, Y., Zhang, W., Chen, W., & Wang, E. (2018a). Critical Rolling Process Parameters for Dynamic Recrystallization Behavior of AZ31 Magnesium Alloy Sheets. *Materials*, 11(10), 2019. <https://doi.org/10.3390/ma11102019>
- Wang, W., Miao, Q., Chen, X., Yu, Y., Zhang, W., Chen, W., & Wang, E. (2018b). Critical Rolling Process Parameters for Dynamic Recrystallization Behavior of AZ31 Magnesium Alloy Sheets. *Materials*, 11(10), 2019. <https://doi.org/10.3390/ma11102019>
- Wu, A.-M., Bisignano, C., James, S. L., Abady, G. G., Abedi, A., Abu-Gharbieh, E., Alhassan, R. K., Alipour, V., Arabloo, J., Asaad, M., Asmare, W. N., Awedew, A. F., Banach, M., Banerjee, S. K., Bijani, A., Birhanu, T. T. M., Bolla, S. R., Cámera, L. A., Chang, J.-C., ... Vos, T. (2021). Global, regional, and national burden of bone fractures in 204 countries and territories, 1990–2019: A systematic analysis from the Global Burden of Disease Study 2019. *The Lancet Healthy Longevity*, 2(9), e580–e592. [https://doi.org/10.1016/S2666-7568\(21\)00172-0](https://doi.org/10.1016/S2666-7568(21)00172-0)
- Yang, H., & Zhu, W. (2020). Study on the main influencing factors of shear strength of nano-silver joints. *Journal of Materials Research*

- and Technology*, 9(3), 4133–4138.  
<https://doi.org/10.1016/j.jmrt.2020.02.040>
- Yanny, K., Antipa, N., Liberti, W., Dehaeck, S., Monakhova, K., Liu, F. L., Shen, K., Ng, R., & Waller, L. (2020). Miniscope3D: Optimized single-shot miniature 3D fluorescence microscopy. *Light: Science & Applications*, 9(1), 171. <https://doi.org/10.1038/s41377-020-00403-7>
- Zhang, W., Wang, W., Chen, W., & Wang, E. (2016). Optimization of Rolling Condition for ZK61 Alloy Sheets via Microstructure and Mechanical Property Analysis. *Journal of Materials Engineering and Performance*, 25(12), 5551–5559.  
<https://doi.org/10.1007/s11665-016-2411-y>
- Zheng, Y., Zhang, Y., Liu, Y., Tian, Y., Zheng, X., & Chen, L. (2023). Research Progress on Microstructure Evolution and Strengthening-Toughening Mechanism of Mg Alloys by Extrusion. *Materials*, 16(10), 3791. <https://doi.org/10.3390/ma16103791>
- Zhuo, X., Shao, C., Zhang, P., Hu, Z., & Liu, H. (2022a). Effect of Hot Rolling on the Microstructure and Mechanical Performance of a Mg-5Sn Alloy. *Materials*, 15(17), 5973.  
<https://doi.org/10.3390/ma15175973>
- Zhuo, X., Shao, C., Zhang, P., Hu, Z., & Liu, H. (2022b). Effect of Hot Rolling on the Microstructure and Mechanical Performance of a Mg-5Sn Alloy. *Materials*, 15(17), 5973.  
<https://doi.org/10.3390/ma15175973>