

## DAFTAR PUSTAKA

- Abdollahzadeh, A., Shokuhfar, A., Cabrera, J. M., Zhilyaev, A. P., & Omidvar, H. (2018). The effect of changing chemical composition in dissimilar Mg/Al friction stir welded butt joints using zinc interlayer. *Journal of Manufacturing Processes*, 34, 18–30.
- Abdulstaar, M.A., Al-Fadhlah, K.J., Wagner, L., (2017). Microstructural variation through weld thickness and mechanical properties of peened friction stir welded 6061 aluminum alloy joints. *Materials Characterization* 126, 64–73.
- Ali, A., An, X., Rodopoulos, C., Brown, M., Ohara, P., Levers, A., Gardiner, S., (2007). The effect of controlled shot peening on the fatigue behaviour of 2024-T3 aluminium friction stir welds. *International Journal of Fatigue* 29, 1531–1545.
- Bag, S., Yaduwanshi, D., Pal, S., (2014). Heat transfer and material flow in friction stir welding, in: *Advances in Friction-Stir Welding and Processing*. Elsevier, pp. 21–63.
- Baghdadi, A. H., Mohamad Selamat, N. F., & Sajuri, Z. (2017). Effect of tool offsetting on microstructure and mechanical properties dissimilar friction stir welded Mg-Al alloys. *IOP Conference Series: Materials Science and Engineering*, 238(1), 2–11.
- Bagheri, B., Abbasi, M., Abdollahzadeh, A., (2021). Microstructure and mechanical characteristics of AA6061-T6 joints produced by friction stir welding, friction stir vibration welding and tungsten inert gas welding: A comparative study. *Int J Miner Metall Mater* 28, 450–461.
- Bagherifard, S., Hickey, D.J., Fintová, S., Pastorek, F., Fernandez-Pariente, I., Bandini, M., Webster, T.J., Guagliano, M., (2018). Effects of nanofeatures induced by severe shot peening (SSP) on mechanical, corrosion and cytocompatibility properties of magnesium alloy AZ31. *Acta Biomaterialia* 66, 93–108.
- Bandi, A., & Bakshi, S. R. (2020). Effect of Pin Length and Rotation Speed on the Microstructure and Mechanical Properties of Friction Stir Welded Lap Joints of AZ31B-H24 Mg Alloy and AA6061-T6 Al Alloy. *Metallurgical and Materials Transactions A*, 51(12), 6269–6282.
- Banik, A., Barma, J.D., Singh, R., Saha, S.C., (2019). A Study on the Effect of Varying Revolution Pitch for Different Tool Design: Friction Stir Welding of AA 6061-T6, in: Shanker, K., Shankar, R., Sindhwani, R., *Advances in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering*. Springer Singapore, Singapore, pp. 505–513.
- Bauer, M., Biskup, Ch., Schilling, T., Haverich, A., Bach, Fr.-W., Maier, H.J., Hassel, T., (2013). Influence of Shot Peening on Surface Roughness and In Vitro Load Cycles of Magnesium Alloys. *Biomedical Engineering/Biomedizinische Technik*.
- Bharathiraja J.S.L, Jayakumar, G. (2020). Analytical and experimental investigations of optimum thermomechanical conditions to use tools with non-circular pin in friction stir welding.

- Bhattacharya, R, M Stanton, I Dargue, G Williams, R Aylmore, and Jaguar Land Rover. (2010). 6xxx Series Alloys Us Ed In Automotive Applications 3: 267–70.
- Bilgin, M., Karabulut, Ş., & Özdemir, A. (2020). Investigation of Heat-Assisted Dissimilar Friction Stir Welding of AA7075-T6 Aluminum and AZ31B Magnesium Alloys. *Arabian Journal for Science and Engineering*, 45(2), 1081–1095.
- Boccarusso, Luca, Antonello Astarita, Pierpaolo Carlone, Fabio Scherillo, Felice Rubino, and Antonino Squillace. (2019). Dissimilar Friction Stir Lap Welding of AA 6082-Mg AZ31: Force Analysis and Microstructure Evolution. *Journal of Manufacturing Processes* 44, 376–88.
- Bohlen, J., Kurz, G., Yi, S., Letzig, D., and Geesthacht, H. (2012). Rolling of magnesium alloys. 346–375.
- Broek, D., (1982). *Elementary engineering fracture mechanics*. Springer Netherlands, Dordrecht.
- Bussu, G., Irving, P., (2003). The role of residual stress and heat affected zone properties on fatigue crack propagation in friction stir welded 2024-T351 aluminium joints. *International Journal of Fatigue* 25, 77–88.
- Callister, W.D., Rethwisch, D.G., (1997), *Material Science and Engineering 8<sup>st</sup>* , John Wiley & Sons, New York.
- Cao, X., & Jahazi, M. (2010). Friction stir welding of dissimilar AA 2024-T3 to AZ31B-H24 alloys. *Materials Science Forum*, 638–642, 3661–3666.
- Carlone, P., Citarella, R., Sonne, M. R., & Hattel, J. H. (2016). Multiple Crack Growth Prediction in AA2024-T3 Friction Stir Welded Joints, Including Manufacturing Effects. *International Journal of Fatigue*.
- Das, J., Banik, S.R., Reddy, S.R.S.K., Sankar, M.R., Robi, P.S., (2019). Review on process parameters effect on fatigue crack growth rate in friction stir welding. *Materials Today: Proceedings* 18, 3061–3070.
- Carlone, P., Palazzo, G.S., (2013). Longitudinal Residual Stress Analysis in AA2024-T3 Friction Stir Welding. *TOMEJ* 7, 18–26.
- Chang, W. S., Rajesh, S. R., Chun, C. K., & Kim, H. J. (2011). Microstructure and Mechanical Properties of Hybrid Laser-Friction Stir Welding between AA6061-T6 Al Alloy and AZ31 Mg Alloy. *Journal of Materials Science and Technology*, 27(3), 199–204.
- Chen, J., Fujii, H., Sun, Y., Morisada, Y., Ueji, R., (2013). Fine grained Mg–3Al–1Zn alloy with randomized texture in the double-sided friction stir welded joints. *Materials Science and Engineering: A* 580, 83–91.
- Chen, W., Wang, W., Liu, Z., Zhai, X., Bian, G., Zhang, T., Dong, P., (2021). Improvement in tensile strength of Mg/Al alloy dissimilar friction stir welding joints by reducing intermetallic compounds. *J. Alloys Compd.* 861, 157942.
- Chen, Y., Zhang, R., He, C., Liu, F., Yang, K., Wang, C., Wang, Q., Liu, Y., (2020). Effect of texture and banded structure on the crack initiation mechanism of a friction stir welded magnesium alloy joint in very high cycle fatigue regime. *Int. J. Fatigue* 136, 105617.

- Chinna Rao, J.T., Harikiran, V., Gurudatta, K.S.S., Kumar Raju, M.V.D., (2022). Temperature and strain distribution during friction stir welding of AA6061 and AA5052 aluminum alloy using deform 3D. *Materials Today: Proceedings* 59, 576–582.
- Chowdhury, S.H., Chen, D.L., Bhole, S.D., Cao, X., Wanjara, P., (2013). Friction Stir Welded AZ31 Magnesium Alloy: Microstructure, Texture, and Tensile Properties. *Metall. Mater. Trans. A* 44, 323–336.
- Chowdhury, S.M., Chen, D.L., Bhole, S.D., Cao, X., (2010). Effect of pin tool thread orientation on fatigue strength of friction stir welded AZ31B-H24 Mg butt joints. *Procedia Eng.* 2, 825–833.
- Colligan, K. J. (2009). The friction stir welding process: An overview. In *Friction Stir Welding: From Basics to Applications*. Woodhead Publishing Limited.
- Cristofle, C. (2020). Aluminium alloy series. 17–20. <https://doi.org/10.1016/B978-0-08-099925-8.00004-1>.
- \_\_\_\_\_. (2020). 6XXX Series Alloys. 485–95. <https://doi.org/10.1016/B978-0-08-099925-8.00034-X>.
- Darmadi, D.B., Talice, M., (2021). Improving the strength of friction stir welded joint by double side friction welding and varying pin geometry. *Engineering Science and Technology, an International Journal* 24, 637–647.
- Desai, A.M., Khatri, B.C., Patel, V., Rana, H., (2021). Friction stir welding of AZ31 magnesium alloy: A review. *Mater. Today Proc.* 47, 6576–6585.
- Dewangan, S. K., Tripathi, M. K., & Manoj, M. K. (2021). Material Flow Behavior and Mechanical Properties of Dissimilar Friction Stir Welded Al 7075 and Mg AZ31 Alloys Using Cd Interlayer. *Metals and Materials International*, 0123456789, 20–23.
- Dewanto, A. P., Amirudin, W., & Yudo, H. (2016). Analisa Kekuatan Mekanik Sambungan Las Metode Mig (Metal Inert Gas) dan Metode FSW (Friction Stir Welding) 800 Rpm Pada Alumunium Tipe 5083. *Jurnal Teknik Perkapalan*, 4(3), 613–621.
- Dinda, S., (2002), Correlation and Prediction of Fatigue Crack Growth Rate for different R-Ratios for Different R-Ratios, Western Michigan University Kalamazoo, Michigan.
- Dong, F., Peng, X., Lai, T., Guan, C., Li, G., Liu, J., Dai, Y., (2024). Improving the surface quality and its mechanism in ultraprecision machining of Al–Mg–Si alloy by multiple high energy shot peening pretreatment. *Journal of Materials Research and Technology* 30, 7051–7064.
- Dorbane, A., Mansoor, B., Ayoub, G., Shunmugasamy, V. C., & Imad, A. (2016). Materials Science & Engineering A Mechanical, microstructural and fracture properties of dissimilar welds produced by friction stir welding of AZ31B and Al6061. *Materials Science & Engineering A*, 651, 720–733.
- Dos Santos, J.F., Olea, C.A.W., Coelho, R.S., Kostka, A., Paglia, C.S., Ghidini, T., Donne Eads, C.D., (2010). Metallurgy and weld performance in friction stir welding, in: *Friction Stir Welding*. Elsevier, pp. 314–410.
- Easterling, K., dan Sc, D., (1992), Introduction to the Physical Metallurgy of Welding, *Introduction to the Physical Metallurgy of Welding*.

- Easton, M., Beer, A., Barnett, M., Davies, C., Dunlop, G., Durandet, Y., Blacket, S., Hilditch, T., & Beggs, P. (2008). Magnesium Alloy Applications In Automotive Structures. *Jom*, 60(11), 57–62.
- Easton, M., Gibson, M., Beer, A., Barnett, M., Davies, C., Durandet, Y., Blacket, S., Chen, X., Birbilis, N., & Abbott, T. (2012). The Application of Magnesium Alloys to the Light weighting of Automotive Structures. *Sustainable Automotive Technologies 2012*, 17–23.
- Fan, Y., Lu, L., Liu, J., Ma, M., Huang, W., Wu, R., (2024). Effect Of Deformation Temperature on Microstructure and Texture Of AZ31 Magnesium Alloy Processed by New Plastic Deformation Method. *Transactions of Nonferrous Metals Society of China* 34, 2138–2152.
- Firouzdor, V., & Kou, S. (2009). Al-to-Mg friction stir welding: Effect of positions of Al and Mg with respect to the welding tool. *Welding Journal (Miami, Fla)*, 88(11).
- Firouzdor, V., & Kou, S. (2010). Al-to-Mg friction stir welding: Effect of material position, travel speed, and rotation speed. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 41(11), 2914–2935.
- Fontana, M.G., (1987), *Corrosion Engineering*, McGraw-Hill, Singapore.
- Forman, R.G., Kearney, V.E., Engle, R.M., (1967). Numerical Analysis of Crack Propagation in Cyclic-Loaded Structures. *J. Basic Eng.* 89, 459–463.
- Fu, B., Qin, G., Li, F., Meng, X., Zhang, J., & Wu, C. (2015). Friction stir welding process of dissimilar metals of 6061-T6 aluminum alloy to AZ31B magnesium alloy. *Journal of Materials Processing Technology*, 218, 38–47.
- Grinspan, A.S., Gnanamoorthy, R., (2006). Surface modification by oil jet peening in Al alloys, AA6063-T6 and AA6061-T4. *Applied Surface Science* 253, 997–1005.
- Guo, W., You, G., Yuan, G., Zhang, X., (2017). Microstructure and mechanical properties of dissimilar inertia friction welding of 7A04 aluminum alloy to AZ31 magnesium alloy. *Journal of Alloys and Compounds* 695, 3267–3277.
- Haghighi, O., Amini, K., Gharavi, F., (2020). Effect of Shot Peening Operation on the Microstructure and Wear Behavior of AZ31 Magnesium Alloy. *Prot Met Phys Chem Surf* 56, 164–168.
- Harada, Y., Fukunaga, M., Yamamoto, A., (2008). Butt Joining of Magnesium Alloy Sheet by Shot Peening. *Mater. Trans.* 49, 1132–1136.
- Hirsch, J., and T. Al-Samman. (2013). Superior Light Metals by Texture Engineering: Optimized Aluminum and Magnesium Alloys for Automotive Applications. *Acta Materialia* 61 (3): 818–43.
- Hosseini, Z.S., Dadfarnia, M., Somerday, B.P., Sofronis, P., Ritchie, R.O., (2018). On the theoretical modeling of fatigue crack growth. *J. Mech. Phys. Solids* 121, 341–362.
- Hou, H., Dong, R., Tan, Y., Li, C., Zhang, X., Wu, L., Zhu, B., Zhao, Y., (2023). Microstructural characteristics and enhanced mechanical properties of 2024 aluminum alloy resulting from shot-peening treatment. *Materials Characterization* 206, 113412.

- Hou, L., Wei, Y., Shu, X., Xu, B., (2010). Nanocrystalline structure of magnesium alloys subjected to high energy shot peening. *Journal of Alloys and Compounds* 492, 347–350.
- Hou, Z., Sheikh-Ahmad, J., Jarrar, F., Ozturk, F., (2018). Residual Stresses in Dissimilar Friction Stir Welding of AA2024 and AZ31: Experimental and Numerical Study. *Journal of Manufacturing Science and Engineering* 140, 051015.
- Huang, X., Suzuki, K., Watazu, A., Shigematsu, I., Saito, N., (2008). Mechanical properties of Mg–Al–Zn alloy with a tilted basal texture obtained by differential speed rolling. *Materials Science and Engineering: A* 488, 214–220.
- Ilman, M. N., Kusmono, & Iswanto, P. T. (2013). Fatigue crack growth rate behaviour of friction-stir aluminium alloy AA2024-T3 welds under transient thermal tensioning. *Materials and Design*, 50, 235–243.
- Ilman, M.N., Sehonno, Muslih, M.R., (2022). Application of Hybrid Transient Thermal Tensioning/Trailing Active Cooling Treatment for Minimizing Distortion, Residual Stress, and Fatigue Crack Growth Rate of Friction Stir Welding Joints. *J. Mater. Eng. Perform.* 31, 7772–7785.
- Ilman, M.N., Kusmono, Muslih, M.R., Triwibowo, N.A., Sehonno, (2022). Enhanced fatigue performance of tandem MIG 5083 aluminium alloy weld joints by heat sink and static thermal tensioning. *International Journal of Lightweight Materials and Manufacture* 5, 440–452.
- Ilman, M.N., dan Sehonno, (2023). *Ilmu dan Teknologi Pengelasan*. Gadjah Mada University Press. Yogyakarta.
- Imam Fauzi, E. R., M. S. Che Jamil, Z. Samad, And P. Muangjunburee. (2017). Microstructure Analysis and Mechanical Characteristics of Tungsten Inert Gas and Metal Inert Gas Welded AA6082-T6 Tubular Joint: A Comparative Study. *Transactions of Nonferrous Metals Society of China (English Edition)* 27 (1): 17–24.
- Iswanto, H. A. & P. T. (2015). Pengaruh *Shot Peening* Pada Material Pesawat Terbang Al 7050-T7651 Terhadap Laju Perambatan Retak Fatik. *Jurnal Teknik STTKD*, 2(1), 50–59.
- Joost, W. J., & Krajewski, P. E. (2017). Towards magnesium alloys for high-volume automotive applications. *Scripta Materialia*, 128, 107–112.
- Jordon, J.B., Rao, H., Amaro, R., Allison, P., (2019). Fatigue Crack Growth in Friction Stir Welds, in: *Fatigue in Friction Stir Welding*. Elsevier, pp. 61–86.
- Joshi, S., Namjoshi, S., & Paliwal, D. (2020). Effect of Tool Geometry on Friction Stir Welded 6061 Aluminum Alloy. *Materials Today: Proceedings*, 738–745.
- Karkhin, V.A., (2019). *Thermal Processes in Welding*, Engineering Materials. Springer Singapore, Singapore. <https://doi.org/10.1007/978-981-13-5965>
- Khan, N., Rathee, S., & Srivastava, M. (2020). Friction stir welding: An overview on effect of tool variables. *Materials Today: Proceedings*, 47, 7196–7202.
- \_\_\_\_\_, (2021). *Materials Today: Proceedings* Effect of tool rotational speed on weld quality of friction stir welded AA6061 alloys. *Materials Today: Proceedings*.

- Kim, W.J., Lee, H.W., Yoo, S.J., Park, Y.B., (2011). Texture and mechanical properties of ultrafine-grained Mg–3Al–1Zn alloy sheets prepared by high-ratio differential speed rolling. *Materials Science and Engineering: A* 528, 874–879.
- Kostka, A, Coelho, R.S and Pyzalla, A.R. (2009). Microstructure of Friction Stir Welding of Aluminium Alloy to Magnesium Alloy. *Scripta Materialia* 60 (11): 953–56.
- Kulekci, M. K. (2008). Magnesium and its alloys applications in automotive industry. *International Journal of Advanced Manufacturing Technology*, 39(9–10), 851–865.
- Kumar, K. K., & Kumar, A. (2021). Effect of friction stir welding parameters on the material flow, mechanical properties and corrosion behavior of dissimilar AA5083-AA6061 joints.
- Kumar, K.K., Kumar, A., Satyanarayana, M., (2022). Effect of friction stir welding parameters on the material flow, mechanical properties and corrosion behavior of dissimilar AA5083-AA6061 joints. *Proc. Inst. Mech. Eng. Part C J. Mech. Eng. Sci.* 236, 2901–2917.
- Kumar, N., Yuan, W., & Mishra, R. S. (2015). Friction Stir Welding of Dissimilar Alloys and Materials, 123–126.  
<https://doi.org/10.1016/b978-0-12-802418-8.00007-2>;  
<https://doi.org/10.1016/b978-0-12-802418-8.00005-9>;  
<https://doi.org/10.1016/b978-0-12-802418-8.000047>;  
<https://doi.org/10.1016/b978-0-12-802418-8.00001-1>;  
<https://doi.org/10.1016/b978-0-12-802418-8.00003-5>
- Kumar, U., Prajapati, A., Acharya, U., Medhi, T., Saha Roy, B., & Saha, S. C. (2019). Welding condition & microstructure of friction stir welded AA 6061-T6 and AZ31B. *Materials Today: Proceedings*, 46, 9484–9489.
- Lai, H.-H., Wu, W., (2020). Practical examination of the welding residual stress in view of low-carbon steel welds. *J. Mater. Res. Technol.* 9, 2717–2726.
- Lammi, C.J., Lados, D.A., (2012). Effects of Processing Residual Stresses on Fatigue Crack Growth Behavior of Structural Materials: Experimental Approaches and Microstructural Mechanisms. *Metall. Mater. Trans. A* 43, 87–107.
- Lee, J.Y., Lee, E., (2023). Crystallographic orientation-dependent corrosion behavior of aluminum under residual stress. *Materials Characterization* 205, 113310.
- Lee, Kwang-jin, and Eui-pyo Kwon. (2014). Microstructure of Stir Zone in Dissimilar Friction Stir Welds of AA6061-T6 and AZ31 Alloy Sheets. *Transactions of Nonferrous Metals Society of China* 24 (7): 2374–79.
- Lee, W.B., Yeon, Y.M., Jung, S.B., (2003). Joint properties of friction stir welded AZ31B– H24 magnesium alloy. *Mater. Sci. Technol.* 19, 785–790.
- Leon, S., Jayakumar, V., (2020). Transient heat input model for friction stir welding using non-circular tool pin. *FME Trans.* 48, 137–142.
- Li, B., (2022). Optimization of shot peening parameters for AA7B50-T7751 using response surface methodology. *Simulation Modelling Practice and Theory*.

- Li, Y., Qin, F., & Wu, Z. (2019). Flow Patterns, Microstructure and Mechanical Properties of AZ31/Al6061 Dissimilar Friction Stir-Welded Joints. *Journal of Materials Engineering and Performance*, 28(9), 5415–5424.
- Liang, Z., Chen, K., Wang, X., Yao, J., Yang, Q., Zhang, L., & Shan, A. (2013). Effect of tool offset and tool rotational speed on enhancing mechanical property of Al/Mg dissimilar FSW joints. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 44(8), 3721–3731.
- Lin, Y.-J., Lin, C.-S., (2021). Galvanic corrosion behavior of friction stir welded AZ31B magnesium alloy and 6N01 aluminum alloy dissimilar joints. *Corros. Sci.* 180, 109203.
- Lingampalli, B., Dondapati, S., (2021). Corrosion behaviour of friction stir welded ZM21 magnesium alloy. *Mater. Today Proc.* 46, 1464–1469.
- Liu, C., & Yi, X. (2013). Residual stress measurement on AA6061-T6 aluminum alloy friction stir butt welds using contour method. *Materials and Design*, 46, 366–371.
- Liu, C., Chen, D. L., Bhole, S., Cao, X., & Jahazi, M. (2009). Polishing-assisted galvanic corrosion in the dissimilar friction stir welded joint of AZ31 magnesium alloy to 2024 aluminum alloy. *Materials Characterization*, 60(5), 370–376.
- Liu, C., Zheng, H., Gu, X., Jiang, B., Liang, J., (2019). Effect of severe shot peening on corrosion behavior of AZ31 and AZ91 magnesium alloys. *Journal of Alloys and Compounds* 770, 500–506.
- Liu, H., Yang, B., Zhang, J., Gan, J., Wu, W., Wang, C., Jiang, C., (2023). Surface mechanical property and residual stress stability of shot-peened Mg-8Gd-3Y alloy by in-situ X-ray diffraction. *Journal of Materials Research and Technology* 26, 3015–3024.
- Liu, H., Chen, Y., Yao, Z., Luo, F., (2020). Effect of Tool Offset on the Microstructure and Properties of AA6061/AZ31B Friction Stir Welding Joints. *Metals* 10, 546.
- Liu, L., (2010). Introduction to the welding and joining of magnesium, in: *Welding and Joining of Magnesium Alloys*. Elsevier, pp. 3–8.
- Liu, W.C., Dong, J., Zheng, X.W., Zhang, P., Ding, W.J., (2011). Influence of shot peening on notched fatigue properties of magnesium alloy ZK60. *Materials Science and Technology* 27, 201–207.
- Lohwasser, D., & Chen, Z. (2009). *Friction Stir Welding: From Basics to Applications*, 1–12.
- Longgang, H., Jiajia, Y., Di, Z., Linzhong, Z., Li, Z., Jishan, Z., (2017). Corrosion Behavior of Friction Stir Welded Al-Mg-(Zn) Alloys. *Rare Met. Mater. Eng.* 46, 2437–2445.
- Luo, A A. (2013). *Applications: Aerospace, Automotive and Other Structural Applications of Magnesium*. Fundamentals of Magnesium Alloy Metallurgy. Woodhead Publishing Limited.
- Luo, K., Xing, Y., Sun, M., Xu, L., Xu, S., Wang, C., Lu, J., (2024). Effect of laser shock peening on the dissolution of precipitates and pitting corrosion of AA6061-T6 with different original surface roughness. *Corrosion Science* 228, 111794.

- Ma, Y.E., Staron, P., Fischer, T., Irving, P.E., (2011). Size effects on residual stress and fatigue crack growth in friction stir welded 2195-T8 aluminium – Part II: Modelling. *Int. J. Fatigue* 33, 1426–1435.
- Madhavan, S., Kamaraj, M., Vijayaraghavan, L., Srinivasa Rao, K., (2017). Cold Metal Transfer Welding of Dissimilar A6061 Aluminium Alloy-AZ31B Magnesium Alloy: Effect of Heat Input on Microstructure, Residual Stress and Corrosion Behavior. *Trans Indian Inst Met* 70, 1047–1054.
- Mahoney, M.W., Rhodes, C.G., Flintoff, J.G., Bingel, W.H., Spurling, R.A., (1998). Properties of friction-stir-welded 7075 T651 aluminum. *Metall. Mater. Trans. A* 29, 1955–1965.
- Malarvizhi, S., & Balasubramanian, V. (2012). Influences of tool shoulder diameter to plate thickness ratio (D/T) on stir zone formation and tensile properties of friction stir welded dissimilar joints of AA6061 aluminum-AZ31B magnesium alloys. *Materials and Design*, 40, 453–460.
- Mansoor, B., A. Dorbane, G. Ayoub, and A. Imad. (2016). “Friction Stir Welding of AZ31B Magnesium Alloy with 6061-T6 Aluminum Alloy: Influence of Processing Parameters on Microstructure and Mechanical Properties.” *Friction Stir Welding and Processing VIII*, 259–66.
- Martín, V., Vázquez, J., Navarro, C., & Domínguez, J. (2020). Effect of shot peening residual stresses and surface roughness on fretting fatigue strength of Al 7075-T651. *Tribology International*, 142.
- Masoudian, A., Tahaei, A., Shakiba, A., Sharifianjazi, F., & Mohandesi, J. A. (2014). Microstructure and mechanical properties of friction stir weld of dissimilar AZ31-O magnesium alloy to 6061-T6 aluminum alloy. *Transactions of Nonferrous Metals Society of China (English Edition)*, 24(5), 1317–1322.
- Mehta, K.P., Carlone, P., Astarita, A., Scherillo, F., Rubino, F., Vora, P., (2019). Conventional and cooling assisted friction stir welding of AA6061 and AZ31B alloys. *Materials Science and Engineering: A* 759, 252–261.
- Megson, T. H. G., (2013). *Materials Aircraft Structures for Engineering Students*. <https://doi.org/10.1016/B978-0-08-096905-3.00051-6>.
- Messler, R. W. (1999). *Principles of Welding*. John Wiley and Sons, Inc. Singapore
- Mirzaei, M., Asadi, P., Fazli, A., (2020). Effect of Tool Pin Profile on Material Flow in Double Shoulder Friction Stir Welding of AZ91 Magnesium Alloy. *Int. J. Mech. Sci.* 183, 105775.
- Mishra, R.S, and Komarasamy, M. (2016), Friction Stir Welding of High Strength 7xxx Aluminium Alloys.  
<https://doi.org/10.1016/B978-0-12-809465-5.00004-0>  
<https://doi.org/10.1016/B978-0-12-809465-5.00005-2>  
<https://doi.org/10.1016/B978-0-12-809465-5.00006-4>  
<https://doi.org/10.1016/B978-0-12-809465-5.00003-9>  
<https://doi.org/10.1016/B978-0-12-809465-5.00007-6>  
<https://doi.org/10.1016/B978-0-12-809465-5.00008-8>
- Mishra, R.S., Sidhar, H., (2017). Temperature Evolution and Thermal Management During FSW of 2XXX Alloys, in: *Friction Stir Welding of 2XXX Aluminum Alloys Including Al-Li Alloys*. Elsevier, pp. 37–46.

- Mishra, R.S, Kumar, N, Yuan W, (2015), Friction Stir Welding of Dissimilar Alloys and Materials. <https://doi.org/10.1016/b978-0-12-802418-8.00004-7>.
- Mishra, R.S. (2019). Influence of Welding Parameters on Fatigue Behavior. Fatigue in Friction Stir Welding. <https://doi.org/10.1016/b978-0-12-816131-9.00003-9>.
- Mishra, R.S., De, P.S., Kumar, N., (2015). Friction Stir Welding and Processing: Science and Engineering. Springer International Publishing, Cham. <https://doi.org/10.1007/978-3-319-07043-8>.
- Mohammadi, J, Y Behnamian, A Mostafaei, and A P Gerlich. (2015). Tool Geometry, Rotation and Travel Speeds Effects on the Properties of Dissimilar Magnesium / Aluminum Friction Stir Welded Lap Joints. *Journal of Materials & Design* 75: 95–112.
- Mohammadi, J., Y. Behnamian, A. Mostafaei, H. Izadi, T. Saeid, A. H. Kokabi, and A. P. Gerlich. (2015). Friction Stir Welding Joint of Dissimilar Materials between AZ31B Magnesium and 6061 Aluminum Alloys: Microstructure Studies and Mechanical Characterizations. *Materials Characterization* 101: 189–207.
- Moreira, P. M. G. P., de Figueiredo, M. A. V., & de Castro, P. M. S. T. (2007). Fatigue Behaviour of FSW and MIG Weldments for Two Aluminium Alloys. *Theoretical and Applied Fracture Mechanics*, 48(2), 169–177.
- Morinaga, M, (2019). Aluminum Alloys and Magnesium Alloys. <https://doi.org/10.1016/B978-0-12-814706-1.00006-6>.
- Motalleb-nejad, P., Saeid, T., Heidarzadeh, A., Darzi, Kh., Ashjari, M., (2014). Effect of tool pin profile on microstructure and mechanical properties of friction stir welded AZ31B magnesium alloy. *Materials & Design* 59, 221–226.
- Naidu, N., Raman, S., (2005). Effect of shot blasting on plain fatigue and fretting fatigue behaviour of Al-Mg-Si alloy AA6061. *International Journal of Fatigue* 27, 323–331.
- Naik, B.S., Cao, X., Wanjara, P., Friedman, J., Chen, D., (2015). Residual Stresses and Tensile Properties of Friction Stir Welded AZ31B-H24 Magnesium Alloy in Lap Configuration. *Metall. Mater. Trans. B* 46, 1626–1637.
- Nakata, T., Kanitani, S., Matsumoto, Y., Ogawa, M., Shimizu, K., Kamado, S., (2023). Role of dynamic recrystallization and grain growth on the formation of abnormal basal texture in a high-alloyed Mg-Al-Zn extruded alloy. *Materialia* 27, 101652.
- Nam, Y.-S., Jeong, Y.-I., Shin, B.-C., Byun, J.-H., (2015). Enhancing surface layer properties of an aircraft aluminum alloy by shot peening using response surface methodology. *Materials & Design* 83, 566–576.
- Nasiłowska, B., Bogusz, P., & Skrzeczanowski, W. (2019). The influence of shot peening on structure and mechanical properties of 5754 aluminium alloy joints welded with TIG method. *Procedia Structural Integrity*, 23, 583–588.
- Niku, L.A. (1987). Overview on the Shot Peening Process. In *Advances In Surface Treatments: Technology Applications Effects*, Volume 5. Pergamon Books Ltd.

- Niu, P.L., Li, W.Y., Li, N., Xu, Y.X., Chen, D.L., (2019). Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. *Materials Characterization* 147, 93–100.
- Ogunsemi, B. T., Abioye, T. E., Ogedengbe, T. I., & Zuhailawati, H. (2021). A review of various improvement strategies for joint quality of AA 6061-T6 friction stir weldments. *Journal of Materials Research and Technology*, 11, 1061–1089.
- Pardo, A., Merino, M.C., Coy, A.E., Arrabal, R., Viejo, F., Matykina, E., (2008). Corrosion behaviour of magnesium/aluminium alloys in 3.5wt.% NaCl. *Corrosion Science* 50, 823–834.
- Pareek, M., Polar, A., Rumiche, F., Indacochea, J.E., (2007). Metallurgical Evaluation of AZ31B-H24 Magnesium Alloy Friction Stir Welds. *J. Mater. Eng. Perform.* 16, 655–662.
- Park, S.H.C., Sato, Y.S., Kokawa, H., (2003). Basal plane texture and flow pattern in friction stir weld of a magnesium alloy. *Metall. Mater. Trans. A* 34, 987–995.
- Patel, V., Li, W., Andersson, J., Li, N., (2022). Enhancing grain refinement and corrosion behavior in AZ31B magnesium alloy via stationary shoulder friction stir processing. *Journal of Materials Research and Technology* 17, 3150–3156.
- Peel, M., Steuwer, A., Preuss, M., Withers, P.J., (2003). Microstructure, mechanical properties and residual stresses as a function of welding speed in aluminium AA5083 friction stir welds. *Acta Materialia* 51, 4791–4801.
- Peng, P., Wang, W., Jin, Y., Liu, Q., Zhang, T., Qiao, K., Cai, J., Wang, K., (2021). Experimental investigation on fatigue crack initiation and propagation mechanism of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. *Materials Characterization* 177, 111176.
- Peral, L. B., Zafra, A., Bagherifard, S., Guagliano, M., & Fernández-Pariente, I. (2020). Effect of warm shot peening treatments on surface properties and corrosion behavior of AZ31 magnesium alloy. *Surface and Coatings Technology*, 401, 126285.
- Popov, B. N., (2015). Atmospheric Corrosion. *Corrosion Engineering*, 451–480. <https://doi.org/10.1016/B978-0-444-62722-3.00010-0>
- Powell, B. R., Krajewski, P. E., & Luo, A. A. (2021). Magnesium alloys for lightweight powertrains and automotive structures. In *Materials, Design and Manufacturing for Lightweight Vehicles*. Ltd. <https://doi.org/10.1016/b978-0-12-818712-8.00004-5>
- Prasad, Y.V.R.K., Rao, K.P., (2006). Effect of crystallographic texture on the kinetics of hot deformation of rolled Mg–3Al–1Zn alloy plate. *Materials Science and Engineering: A* 432, 170–177.
- Premkumar, P., & Bruce, A. R. (2017). A Review on Heat Generation and Temperature Distribution Models in Friction stir Welding (FSW) A Review on Heat Generation and Temperature Distribution Models in Friction stir Welding (FSW). <https://doi.org/10.1088/1757-899X/1116/1/012080>
- Pourahmad, P., Abbasi, M., (2013). Materials flow and phase transformation in friction stir welding of Al 6013/Mg. *Transactions of Nonferrous Metals Society of China* 23, 1253–1261.

- Qin, Z., Li, B., Zhang, H., Youani Andre Wilfried, T., Gao, T., Xue, H., (2022). Effects of shot peening with different coverage on surface integrity and fatigue crack growth properties of 7B50-T7751 aluminum alloy. *Engineering Failure Analysis* 133, 106010.
- Rao, J.T., Chinna, V., Harikiran, K.S.S., Gurudatta, and Kumar Raju, M.V.J. (2022). Temperature and Strain Distribution during Friction Stir Welding of AA6061 and AA5052 Aluminum Alloy Using Deform 3D.
- Ratna Sunil, B., Pradeep Kumar Reddy, G., (2016). Corrosion behavior of friction stir welded AZ31B Mg alloy - Al6063 alloy joint. *Cogent Engineering* 3, 1145565.
- Raval, S.K., & Judal, K.B. (2019). Recent Advances in Dissimilar Friction Stir Welding of Aluminum to Magnesium Alloys. *Materials Today: Proceedings*, 22, 2665–2675.
- Ren, W., Liu, D., Liu, Q., Xin, R., (2020). Influence of texture distribution in magnesium welds on their non-uniform mechanical behavior: A CPFEM study. *J. Mater. Sci. Technol.* 46, 168–176.
- Rheinfeld A., (2012). High-Pressure Die-Cast (HPDC) Aluminium Alloys for Automotive Applications 6.
- Rhodes, C.G. Mahoney, M.W. Bingel, W.H. Calabrese, M. (2003), Fine-grain evolution in friction- stir processed 7050 aluminum, *Scr. Mater.* 48 14511455.
- Riswanda, dan Ilman, M.N., (2012). Studi Komparasi Sambungan Las Dissimilar AA5083 - AA6061-T6 Antara TIG dan FSW. *Jurnal Industrial Research Workshop and National Seminar*, 75–79.
- Roberge, P. R. (2000). Atmospheric Corrosion. *Handbook of Corrosion Engineering*.
- Robert W. and Messler, J., (2004), *Principles of Welding Processes, Physics, Chemistry and Metallurgy*, In Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim (Issue 18).
- Saldaña-garcés, R., Hernández-garcía, D., García-vázquez, F., Gutiérrez-castañeda, E. J., & Verdura, D. (2020). Friction Stir Welding of Dissimilar AA6061-T6 to AZ31B-H24 Alloys. 6973, 1–14.
- Santos, J. F. Dos, Olea, C. A. W., Coelho, R. S., Kostka, A., Paglia, C. S., Ghidini, T., & Donne, C. D. (2009). Metallurgy and weld performance in friction stir welding. In *Friction stir welding*. Woodhead Publishing Limited.
- Schijve, J., (1997). *Fatigue of Structures and Materials in the 20th Century and the State of the Art*.
- Schmidt, H., Hattel, J., Wert, J., (2004), An analytical model for the heat generation in friction stir welding, *Modelling and Simulation in Materials Science and Engineering*, 12(1), 143–157.
- Schmidt, H.N.B, (2010). *Modelling Thermal Properties in Friction Stir Welding*. Friction Stir Welding. Woodhead Publishing Limited.
- Science, T. (2012). Experimental Studies of Parameters Affecting The Heat. 16, 351–362.
- Shah, L.H., Huda, N., Esmaili, S., Walbridge, S., & Gerlich, A.P. (2020). Structural morphology of Al-Mg-Si alloy friction stir welds through tool eccentricity. *Materials Letters*, 275, 128098.

- Shah, L.H., Othman, N.H and Gerlich, A. (2018). Review of Research Progress on Aluminium–Magnesium Dissimilar Friction Stir Welding. *Science and Technology of Welding and Joining* 23 (3): 256–70.
- Shang, Q., Ni, D.R., Xue, P., Xiao, B.L., Ma, Z.Y., (2017). Evolution of local texture and its effect on mechanical properties and fracture behavior of friction stir welded joint of extruded Mg-3Al-1Zn alloy. *Materials Characterization* 128, 14–22.
- Sheng-Li, L., Cui, Y., Gao, X., & Srivatsan, T.S. (2013). Influence of exposure to aggressive environment on fatigue behavior of a shot peened high strength aluminum alloy. *Materials Science and Engineering A*, 574, 243–252.
- Shi, L, and Wu. C.S, (2017). “Transient Model of Heat Transfer and Material Flow at Different Stages of Friction Stir Welding Process” 25: 323–39.
- Singh, B., Sharma, S., Kumar, V., Maheshwari, K., Singhal, P., (2021). A Review on Heat Generation and Temperature Distribution Models in Friction stir Welding (FSW). *IOP Conf. Ser.: Mater. Sci. Eng.* 1116, 012080.
- Singh, K., Singh, G., Singh, H., (2018). Review on friction stir welding of magnesium alloys. *J. Magnes. Alloys* 6, 399–416.
- Singh, U. K., & Dubey, A. K. (2021). Study on the weldability and mechanical performance of dissimilar AA7075-AZ31 alloys in friction stir welding. *Materials Today: Proceedings*, 47, 2720–2725.
- Singh, V.P., Patel, S.K., Ranjan, A., & Kuriachen, B. (2020). Recent research progress in solid state friction-stir welding of aluminium–magnesium alloys: A critical review. *Journal of Materials Research and Technology*, 9(3), 6217–6256.
- Somasekharan, A.C., & Murr, L.E. (2004). Microstructures in friction-stir welded dissimilar magnesium alloys and magnesium alloys to 6061-T6 aluminum alloy. *Materials Characterization*, 52(1), 49–64.
- States, U. (2020). 6XXX series alloys. 485–495. <https://doi.org/10.1016/B978-0-08-099925-8.00034-X>
- Stephen Leon. (2020). Transient Heat Input Model for Friction Stir Welding Using Non-Circular Tool Pin,” 137–42. <https://doi.org/10.5937/fmet2001137L>.
- St. John, D., and Nie, J. (2017). Wrought aluminium alloys. <https://doi.org/10.1016/B978-0-08-099431-4.00004-X>
- \_\_\_\_\_, (2017). Magnesium alloys. <https://doi.org/10.1016/B978-0-08-099431-4.00006-3>
- Su, T.W., Nelson, R., Mishra, M., Mahoney. (2003), Microstructural investigation of friction stir welded 7050-T651 Aluminium, *Acta Mater.* 51 (2003) 713729.
- Sun, G., Chen, Y., Chen, S., Shang, D., (2017). Fatigue modeling and life prediction for friction stir welded joint based on microstructure and mechanical characterization. *International Journal of Fatigue* 98, 131–141.
- Sun, Q., Fu, X., Chen, G., Dong, H., Zhou, W., (2022). Improving the mechanical properties of a friction stir welded AZ31 joint by adjusting the microstructure and texture. *Journal of Materials Research and Technology* 21, 2326–2337.
- Sunil, B. R., and Reddy, G. P. K. (2016). Corrosion behavior of friction stir welded AZ31B Mg alloy-Al6063 alloy joint. 1–6.

- Takahashi, K., Osedo, H., Suzuki, T., & Fukuda, S. (2018). Fatigue strength improvement of an aluminum alloy with a crack-like surface defect using shot peening and cavitation peening. *Engineering Fracture Mechanics*, 193, 151–161.
- Tao, X., Gao, Y., (2022). Effects of wet shot peening on microstructures and mechanical properties of a 2060-T8 aluminum-lithium alloy. *Materials Science and Engineering: A* 832, 142436.
- Their, X., (2020). Wrought aluminium alloys. <https://doi.org/10.1016/B978-0-08-099925-8.00006-5>
- Vargel, C., (2020). 6XXX series alloys, in: *Corrosion of Aluminium*. Elsevier, pp. 485–495. <https://doi.org/10.1016/B978-0-08-099925-8.00034-X>
- Varma, K. V. K., Baig, I., Kumar, B. V. R. R., & Ramana, M. V. (2021). Effect of friction stir welding parameters on tool geometry and metallurgical properties of AA 6082-T6 weldments at different weld zones. *Materials Today: Proceedings*, 45, 3195–3200.
- Varshney, D., & Kumar, K. (2021). Application and use of different aluminium alloys with respect to workability, strength and welding parameter optimization. *Ain Shams Engineering Journal*, 12(1), 1143–1152.
- Venkateswaran, P., & Reynolds, A.P., (2012). Factors affecting the properties of Friction Stir Welds between aluminum and magnesium alloys. *Materials Science and Engineering A*, 545, 26–37.
- Verma, J., Taiwade, R. V., Reddy, C., & Khatirkar, R.K. (2018). Effect of friction stir welding process parameters on Mg-AZ31B/Al-AA6061 joints. *Materials and Manufacturing Processes*, 33(3), 308–314.
- Verma, M., Ahmed, S., Saha, P., (2021). Challenges, process requisites/inputs, mechanics and weld performance of dissimilar micro-friction stir welding (dissimilar  $\mu$ FSW): A comprehensive review. *Journal of Manufacturing Processes* 68, 249–276.
- Wang, H.-T., Yao, H.-L., Zhang, M.-X., Bai, X.-B., Yi, Z.-H., Chen, Q.-Y., Ji, G.-C., (2019). Surface nanocrystallization treatment of AZ91D magnesium alloy by cold spraying shot peening process. *Surface and Coatings Technology* 374, 485–492.
- Wang, G., Yan, Z., Zhang, H., Zhang, X., Liu, F., Wang, X., Su, Y., (2017). Improved properties of friction stir-welded AZ31 magnesium alloy by post-weld heat treatment. *Materials Science and Technology* 33, 854–863.
- Wartono, W. (2020). Pengaruh Shot Peening terhadap Laju Perambatan Retak Fatik Sambungan Friction Stir Welding pada Aluminium Seri 5083. 4(1),20–26.
- Williams, S. W., & Steuwer, A. (2008). Residual stresses in friction stir welding. In *Friction stir welding*. Woodhead Publishing Limited. <https://doi.org/10.1533/9781845697716.2.215>
- Wei, Y.-K., Li, Y.-J., Zhang, Y., Luo, X.-T., Li, C.-J., (2018). Corrosion resistant nickel coating with strong adhesion on AZ31B magnesium alloy prepared by an in-situ shot-peening-assisted cold spray. *Corrosion Science* 138, 105–115.
- Woo, W., Choo, H., Prime, M.B., Feng, Z., Clausen, B., (2008). Microstructure, texture and residual stress in a friction-stir-processed AZ31B magnesium alloy. *Acta Materialia* 56, 1701–1711.

- Woo, W., Feng, Z., Wang, X.L., dan David, S.A., (2011) Neutron diffraction measurements of residual stresses in friction stir welding: A review. *Science and Technology of Welding and Joining*, 16(1), 23–32.
- Wu, H.-Y., and Lin, F.Z., (2010). Mechanical properties and strain-hardening behavior of Mg alloy AZ31B-H24 thin sheet. *Mater. Sci. Eng. A* 527, 1194–1199.
- Wu, M.Z., Zhang, J.-W., Mei, G.M., Zhang, J.X., Li, X., (2019). Effects of Fine Particle Shot Peening Treatment on Fatigue Properties of Al-7Si-0.3Mg Alloy. *J. of Materi Eng. and Perform.* 28, 2600–2609.
- Wu, S., Wang, S., Wang, G., Yu, X., Liu, W., Chang, Z., Wen, D., (2019). Microstructure, mechanical and corrosion properties of magnesium alloy bone plate treated by high-energy shot peening. *Transactions of Nonferrous Metals Society of China* 29, 1641–1652.
- Xie, L., Zhu, X., Fan, Y., Yang, S., Jiang, C., Song, Y., (2022). Evolution and distribution of crystallographic texture on friction-stir welded joint of Mg-5.6Al-1.2Sn-0.7Zn magnesium alloy. *J. Mater. Res. Technol.* 20, 3836–3842.
- Xu, C., Sheng, G., Wang, H., Jiao, Y., Yuan, X., (2017). Effect of high energy shot peening on the microstructure and mechanical properties of Mg/Ti joints. *Journal of Alloys and Compounds* 695, 1383–1391.
- Xu, N., Song, Q., Fujii, H., Bao, Y., Shen, J., (2018). Mechanical properties' modification of large load friction stir welded AZ31B Mg alloy joint. *Materials Letters* 219, 93–96.
- Xu, N., Zhang, W., Cai, S., Zhuo, Y., Song, Q., Bao, Y., (2020). Microstructure and tensile properties of rapid-cooling friction-stir-welded AZ31B Mg alloy along thickness direction. *Transactions of Nonferrous Metals Society of China* 30, 3254–3262.
- Xu, W., Liu, J., & Zhu, H. (2011). Analysis of residual stresses in thick aluminum friction stir welded butt joints. *Materials and Design*, 32(4), 2000–2005.
- Yan, Y., Zhang, D., Qiu, C., Zhang, W., (2010). Dissimilar friction stir welding between 5052 aluminum alloy and AZ31 magnesium alloy. *Transactions of Nonferrous Metals Society of China* 20, s619–s623.
- Yang, J., Wang, D., Xiao, B.L., Ni, D.R., Ma, Z.Y., (2013). Effects of Rotation Rates on Microstructure, Mechanical Properties, and Fracture Behavior of Friction Stir-Welded (FSW) AZ31 Magnesium Alloy. *Metall. Mater. Trans. A* 44, 517–530.
- Zapata, J., Toro, M., & López, D. (2016). Residual stresses in friction stir dissimilar welding of aluminum alloys. *Journal of Materials Processing Technology*, 229, 121–127.
- Zappia, T., Smith, K.C., Colligan, H. Ostersehlte, and Kallee, S.W., (2009). *Friction Stir Welding Equipment. Friction Stir Welding: From Basics to Applications.* Woodhead Publishing Limited.
- Zettler, R. (2009). Material deformation and joint formation in friction stir welding. In *Friction Stir Welding: From Basics to Applications.* Woodhead Publishing Limited. <https://doi.org/10.1533/9781845697716.1.42>
- Zettler, R., Da Silva, A. A. M., Rodrigues, S., Blanco, A., & Dos Santos, J. F. (2006). Dissimilar Al to Mg alloy friction stir welds. *Advanced Engineering Materials*, 8(5), 415–421.

- Zettler, R., Vugrin, T., Schmücker, M., (2010). Effects and defects of friction stir welds, in: Friction Stir Welding. Elsevier, pp. 245–276.
- Zhang, J., Yao, C., Tan, L., Cui, M., Lin, Z., Han, W., & Min, X. (2021). Shot peening parameters optimization based on residual stress-induced deformation of large fan blades. *Thin-Walled Structures*.
- Zhang, L., Zhong, H., Li, S., Zhao, H., Chen, J., & Qi, L. (2020). Microstructure, mechanical properties and fatigue crack growth behavior of friction stir welded joint of 6061-T6 aluminum alloy. *International Journal of Fatigue*.
- Zhang, P., Lindemann, J., Leyens, C. (2010). Shot peening on the high-strength wrought magnesium alloy AZ80 Effect of peening media. *Journal of Materials Processing Technology*, 210(3), 445–450.
- Zhang, P., Lindemann, J., (2005). Influence of shot peening on high cycle fatigue properties of the high-strength wrought magnesium alloy AZ80. *Scripta Materialia* 52, 485–490.
- Zhang, Y.N., Cao, X., Larose, S., and Wanjara, P., (2012). “Review of Tools for Friction Stir Welding and Processing” 51 (3): 250–61.
- Zhao, T., Zhao, Y., Wu, A., Wang, G., Yan, D., Wan, Z., Wu, H., (2021). Radial expansion approach and its mechanism to reduce residual stress and distortion of girth joint structure. *Journal of Manufacturing Processes* 70, 214–224.
- Zhou, B., & Liu, B. (2021). The Advancement of 7xxx Series Aluminum Alloys for Aircraft Structures: A Review.
- Zhao, J., Wu, C., Su, H., (2021). Acoustic effect on the tensile properties and metallurgical structures of dissimilar friction stir welding joints of Al/Mg alloys. *Journal of Manufacturing Processes* 65, 328–341.
- Zhu, L., Wang, L., Zhao, M., Guo, Z., Zhu, G., Wang, Z., Lin, J., Guan, Y., Wu, Y., Zheng, H., (2025). Enhancement of surface hardening of  $\beta$  phase Mg-Li alloy through nanocrystallization and amorphization by warm ultrasonic shot peening. *Journal of Alloys and Compounds* 1024, 180127.