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Dissemination

Publications in the peer-reviewed international journals from the present thesis

1. **P. Nasker**, A.K. Mondal, SiC nanoparticles additions to squeeze-cast Mg-5.0 Al-2.0 Ca-0.3 Mn alloy: An evaluation of microstructure and mechanical properties, *Materials Characterization* 212 (2024) 113984.
2. **P. Nasker**, A.K. Mondal, Microstructure evolution and assessment of creep behaviour of SiC nanoparticles dispersed squeeze-cast Mg-5.0Al-2.0Ca-0.3Mn alloy, *Materials Science and Engineering A* 910 (2024) 146894.
3. **P. Nasker**, S. Kumar, and A.K. Mondal, On the correlation of microstructure and superior corrosion behaviour of squeeze-cast SiC nanoparticle-dispersed Mg-Al-Ca-Mn alloy, *Journal of Alloys and Compounds* 1039 (2025) 183121.
4. **P. Nasker**, A. K. Mondal, J. Basua, H. Dieringa, and S. Kumar, On the correlation of creep behavior and microstructures of age-hardened noble Mg-Al-Ca-Mn + SiC_{np} nanocomposites, *Composites Part A: Applied Science and Manufacturing*, Under review.

Conference attended based on the present work

1. **P. Nasker**, S. Katiyar, A. Gourav, S.S. Shukla, A.K. Mondal, Effect of heat treatment on microstructure and creep behaviour of Mg-Al-Ca-Sr alloy, Advance Materials Conference 2022, 23-24 February 2022, CSIR-NIST, Trivandrum, India.
2. **P. Nasker**, A.K. Mondal, Microstructure and creep behaviour of as-cast and heat-treated Mg-Al-Ca alloy, NMD-ATM 2023, 22-24 November 2023, KIT Bhubaneswar, India.
3. **P. Nasker**, J. Basu, and A.K. Mondal, Dislocation and Twin Characteristics in Creep Tested Heat-treated SiC Dispersed AXM520 nanocomposites, EMSI-2025, 12-14 July 2025, IISc Bangalore, India.