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LIST OF PUBLICATIONS

PUBLICATIONS IN INDEXED JOURNALS

1. M. Pandey and N. Kumar, “Investigating Microstructure and Wear Characteristics of Alloy Steels Used as Wear Plates in Ballast Cleaning Operation in Railways,” vol. 147, no. January, pp. 12–18, ASME, JEMT 2025, doi: 10.1115/1.4066518.
2. M. Pandey, P. k. Mohanto, S. Kumari & N. Kumar, “Proposal of En19 & En24 steels to face major challenges in indigenized track maintenance machines for Indian railway” January 2024, Indian Journal of Engineering and Materials Sciences 31(01):25-37 , DOI: 10.56042/ijems.v31i1.554
3. M. Pandey & N. Kumar, “Mechanical & fracture behavior of Plasser & RDSO wear plate samples & their Comparative Analysis” (Under Review in Archives of Civil & Mechanical Engineering)
4. M. Pandey & N. Kumar, “Microstructural and Mechanical Behaviour of Boron Carbide (B4C) Coated RDSO Wear Plate Sample for Ballast Cleaning Machine” (Communicated in Journal of Institutions of Mechanical Engineers Part C)
5. M. Pandey & N. Kumar, “Microstructural and Mechanical Behaviour of Boron Carbide (B4C) Coated RDSO Wear Plate Sample for Ballast Cleaning Machine (Communicated in Journal of Institutions of Mechanical Engineers Part C)
6. M. Pandey, N. Kumar, “Artificial Intelligence based railway track defect detection system” (To be Communicated)

CONFERENCES AND WORKSHOPS ATTENDED

1. National Seminar on Ceramics at **Vellore Institute of Technology, AP,** Virtual Conference (Dec 2023). (Oral presentation).
2. International Conference on Emerging Trends in Electronics, Electrical and Mechanical Engineering (ICEEME) 28th Aug 2024 at Bangalore, India (Dec 2022). (Poster presentation).
3. National Seminar on Fatigue Behavior of Metals & alloys at **IIT Roorkee** (2022). (Oral presentation) ·
4. International Conference on Advanced Materials and Mechanical Characterization (2022) Virtual Conference. (Poster presentation).
5. International Conference on Advanced Material for Better Tomorrow, **IIT-BHU** (2021). (Poster presentation)