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List of publications

1. R. Tandon, K.K. Mehta, R. Manna, and R.K.Mandal, Microstructure and mechanical properties of the AA7075T7352 aluminum alloy, **Trans. Indian Inst. Met. 9 (2021)1509-1521.**
2. R.Tandon, K.K. Mehta, R. Manna, and R.K. Mandal, Effect of tensile straining on the precipitation and dislocation behavior of AA7075T7352 aluminum alloy, **J. Alloys Compd. 904 (2022) 163942.**
3. Rachit Trivedi, Bhumika Batra, **Roopchand Tandon**, G.S. Mahobiya, J.K. Singh, A. Chauhan, SAR Sharma, Sudipta Patra, “Optimization of strength and toughness in pearlitic wheel steel via microstructural alteration” Materials Today Communication.
4. Nitish Kumar, Pradyumna Ghosh, Shukla, and **Roopchand Tandon**, “Effects of composite coatings on pool boiling performance characteristics in demineralized water” J. Process Mechanical Engineering, Part E (2024) 1-13.

Manuscript to be communicated

5. R.Tandon, R. Manna, and R.K. Mandal, “Microstructure and Mechanical properties of the aged 7075 Al-alloys”
6. R.Tandon, K.K. Mehta, R. Manna, and R.K. Mandal, Microstructure and Mechanical Properties of Friction Stir Processed AA7075T7352.....
7. R.Tandon, K.K. Mehta, R. Manna, and R.K. Mandal, Microstructure evolution, Texture characteristics and Mechanical Properties of the Cold rolled alloys followed by the Peak-aging.....
8. R.Tandon, R. Manna, and R.K. Mandal, Structure property correlations of the multipass friction stir processed AA7075T7352.....
9. R.Tandon, R. Manna, and R.K. Mandal, “Electron Microscopy of precipitates in AA7075T7352 aluminum alloy”.....
10. R.Tandon, R. Manna, and R.K. Mandal, “Low cycle fatigue, and stress corrosion cracking behaviors of the AA7075T7352”.....

List of conferences/presentations

List of the conferences/ workshops

1. International Microscopy Congress (**IMC 20**) BUSAN, South Korea-
Conference.
2. **APMC 2020**, Defense Metallurgical Research Laboratory, and IIT Hyderabad,
India-Conference.
3. **Nano SPD8 2023**, Materials Engineering, Indian Institute of Science Bangalore,
India-Conference.
4. **ICAMMC 2021**, Department of Nano Science, Institute of Engineering and
Technology SRM University Chennai, India-Conference.
5. **NMD ATM 2022**, Defense Metallurgical Research Laboratory Hyderabad,
India-Conference.
6. **NMD-ATM 2019**, Vikram Sarabhai Space Center, Kovalam, Kerala, India-
Conference.
7. **NMD ATM-2016**, Department of Materials Science and Engineering, IIT
KANPUR, INDIA-Conference.
8. **Mate waste 2018**, Department of Metallurgical Engineering IIT(BHU), Varanasi
U.P. India-Conference.
9. Recent Advances in Materials Physics, Department of Physics NIT Raipur C.G.
492010-Workshop.
10. Avenues in Aeronautical R&D for Indian Defense, IIT(BHU), Varanasi U.P.
221005-Workshop.
11. Advances in EBSD, EDS, and TKD a three days workshop, Metallurgical, and
Materials Engineering IITMadras-**Workshop.**
12. PMAI 2022 Mumbai, India-**Conference.**

13. Recent Advances in the Iron and Steel Technology, Department of Metallurgical Engineering IITBHU Varanasi and ARCIS Ministry of Steel, GOI -**Workshop.**
14. Integrated Computational Materials Engineering (ICME 2022), Department of Materials Engineering IIT Gandhinagar- **Workshop**