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LIST OF PUBLICATIONS

International Journal Papers

- ❖ **H. Kumar**, R. Manna, and D. Khan, Evaluation of Johnson–Cook material model parameters for Fe–30Mn–9Al–0.8C low-density steel in metal forming applications, **Journal of Material Science**, vol. 58, pp. 8118–8129, Journal impact factor: 3.5 (2023).
- ❖ **H. Kumar**, M. Tiwari, R. Manna, and D. Khan, A modified Johnson-Cook model to determine plastic flow behavior of Fe-30Mn-9Al-0.8 C low-density steel during warm multiaxial forging, **Materials Today Communications**, vol. 38, pp. 108270, Journal impact factor: 3.57 (2024).
- ❖ **H. Kumar**, M. Tiwari, R. Manna, and D. Khan, Experimental and Numerical Investigations of Residual Stress Distribution in Fe-30Mn-9Al-0.8C Low-Density Steel during Multiaxial Forging. **Materials Today Communications**, (Under review)
- ❖ **H. Kumar**, R.P. Kumar, R. Manna, and D. Khan. Microstructure and Mechanical Properties of Multiaxially Forged Fe-30Mn-9Al-0.8C and Fe-20Mn-10Al-1C Low-Density Steels, **Ironmaking and Steelmaking**, (Under review)
- ❖ **H. Kumar**, R. Manna, and D. Khan, Flow Behavior Investigation of Fe-30Mn-9Al-0.8C Lightweight Steel during Close Die Forging using SPH Method. **Computational Particle Mechanics**, (Under review)

Conference Papers

- ❖ **H. Kumar**, R. Manna, and D. Khan, Improving mechanical properties of Fe-20Mn-10Al-1C low-density steel by multiaxial forging. METCENT-2023, IIT (BHU), Varanasi

