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List of Conference Presentations

1. Electron Microscopy Investigation of Growth Mechanism and Interfaces of ZnO Nanorods on Insulating, Semiconducting Surfaces Electron Microscopy Society of India (**EMSI**), Avnish Singh Pal, Aman Kumar Lal Das and Joysurya Basu.
Chennai, India, 2017
2. Electron microscopic studies on Heusler based high-entropy alloys. (**EMSI**), Aman Kumar Lal Das, Avnish Singh Pal, Ankit Singh and Joysurya Basu.
Bhuvneshwar, India, 2018
3. Solidification microstructures of Heusler based high-entropy alloys, (**ISMANAM**), Aman Kumar Lal Das, Avnish Singh Pal and Joysurya Basu
Chennai, India, 2019
4. Determination of crystal structure and ordering in equi-atomic NiMn alloy through TEM, (**APMC**), Aman Kumar Lal Das, Gaurav Dilip Rout, Avnish Singh Pal and Joysurya Basu.
Hyderabad 2020.

List of Publications

1. Aman Kumar Lal Das, Gaurav Dilip Rout, Avnish Singh Pal, Joysurya Basu, ***Crystal structure determination of a new monoclinic phase in NiMn system in a self-assembled chessboard-like microstructure***, J. Appl. Phys. 133, 165104 (2023). □
2. Aman Kumar Lal Das, Avnish Singh Pal, Gaurav Dilip Rout, Joysurya Basu, □ ***Microstructural evolution and phase stability in semi Heusler NiMnSb and Vanadium added NiMnSbV alloys***, Journal of Alloys and Compounds 942(2023).
3. Aman Kumar Lal Das, Avnish Singh Pal, Yagnesh Shadangi, Joysurya Basu, ***Configurational entropy stabilized NiMnSb and NiMnSbV medium-entropy alloy through high-energy ball milling***, Intermetallics (Under Review).
4. Avnish Singh Pal, Aman Kumar Lal Das, Ankit Singh, Kevin M. Knowles, Md. Imteyaz Ahmad, Joysurya Basu, ***Evolution of a self-assembled chessboard nanostructure spinel in a CoFeGaMnZn multicomponent oxide***, Philos. Mag. Feb 2022, pp. 1-15.
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