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List of Publications

List of Publications from the Thesis

1. **V. K. Pandey**, V. Shivam, B. N. Sarma, N. K. Mukhopadhyay, “Phase evolution and thermal stability of mechanically alloyed CoCrCuFeNi high entropy alloy”, **Materials Research Express** 6, (2020), 1265b9. **(Part of Chapter 3)**
2. **Vivek Kumar Pandey**, Yagnesh Shadangi, Vikas Shivam, Joysurya Basu, Kausik Chattopadhyay, Bhaskar Majumdar, B.N. Sarma, Nilay Krishna Mukhopadhyay, “Synthesis, Characterization and Thermal Stability of Nanocrystalline MgAlMnFeCu Low-Density High-Entropy Alloy”, **Transaction of the Indian Institute of Metals**,74, (2021), 33-34. **(Part of Chapter 4)**
3. **Vivek Kumar Pandey**, Yagnesh Shadangi, Vikas Shivam, B.N. Sarma, N. K. Mukhopadhyay, “Theoretical and Experimental study on the phase stability of TiVZrMoW refractory high entropy alloy, **Philosophical Magazine** (2020, under review). **(Part of Chapter 5)**
4. **Vivek Kumar Pandey**, Rajendra Prasad Gorrey, B. N. Sarma, S. Lele, N. K. Mukhopadhyay, “An ab-initio, empirical and experimental study of phase stability on TiVYZrHf refractory high entropy alloy” (to be published) **(Part of Chapter 5)**

List of publications apart from the thesis

1. V. Shivam, J Basu, **V. K. Pandey**, Y. Shadangi, N. K. Mukhopadhyay, “Alloying behaviour, thermal stability and phase evolution in quinary AlCoCrFeNi high entropy alloy”, **Advanced Powder Technology** 29 ,(2020), 2221-2230.
2. A. K. Thakur, **V. K. Pandey**, V. Jindal, “Calculation of Existence Domains and Optimized Phase Diagram for the Nb-Ti Binary Alloy System Using Computational Methods”, **Journal of Phase Equilibria and Diffusion** 41, (2020), 846-858.

List of Conferences Attended

1. **Vivek Kumar Pandey**, B.N. Sarma, N.K. Mukhopadhyay, Characterization and phase stability study of TiVZrMoW refractory high entropy alloy; **IWHEM-2020**, 7-8, March 2020, IIT Kanpur, India.
2. **Vivek Kumar Pandey**, B.N. Sarma, N.K. Mukhopadhyay; Phase stability of hcp based high entropy alloy; **ISMANAM-2019**, 8-12, July 2019, IIT Madras, Chennai, India.
3. **Vivek Kumar Pandey**, B.N. Sarma, N.K. Mukhopadhyay; Criteria for formation of cph solid solutions in quinary systems; **IWHEM-2017**, 11-12, March 2017, University of Hyderabad, Hyderabad, India.
4. **Vivek Kumar Pandey**, B.N. Sarma, N.K. Mukhopadhyay; Phase stability studies of CoCrCuFeNi high entropy alloys; **NMD-ATM-2016**, 11-14, November 2016, IIT Kanpur, Kanpur, India.