LIST OF PUBLICATIONS

(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* (2018) 2221–2230.

(2) V. Shivam, J. Basu, Y. Shadangi, M.K. Singh, N.K. Mukhopadhyay, "Mechano-chemical synthesis, thermal stability and phase evolution in AlCoCrFeNiMn high entropy alloy", *Journal of Alloys and Compounds. 757* (2018) 87-97.

(3) V. Shivam, Y. Shadangi, J. Basu, N.K. Mukhopadhyay, "Alloying behavior and thermal stability of mechanically alloyed nano AlCoCrFeNiTi high-entropy alloy", *Journal of Materials Research. 35* (2019) 787–795.

(4) V. Shivam, J. Basu, R. Manna, N.K Mukhopadhyay, "Duplex structure and mechanical properties of non-equiatomic $Fe_{40}Cr_{25}Ni_{15}$ $Al_{15}Co_5$ high-entropy alloy", *Journal of Material Science and Engineering A*. (Submitted), 2019

(5) V. Shivam, V**.** Sanjana, N.K. Mukhopadhyay, "Phase evolution and thermal stability of mechanically alloyed AlCrFeCoNiZn high-entropy alloy", *International Journal of Materials Research* (Under review), 2019

(6) V. K. Pandey**, V. Shivam**, B. N. Sarma, N.K Mukhopadhyay, "Synthesis and Thermal Stability of Mechanically Alloyed CoCrCuFeNi high Entropy Alloy", *Materials Research Express*. (Submitted), 2019

(7) Y. Shadangi, **V. Shivam,** M.K. Singh, J. Basu, K. Chattopadhyay, N.K Mukhopadhyay, "Synthesis and characterization of Sn reinforced Al-Cu-Fe quasicrystalline matrix nanocomposite by mechanical milling", *Journal of Alloys and Compounds* 797, 1280-1287, (2019)

(8) K.B. Ganne, Y. Shadangi, **V.Shivam**, N.K. Mukhopadhyay, Influence of mechanical alloying and cryo-milling on alloying behaviour and thermal stability of Al-28.5 at% Fe. (to be submitted)

(9) Y. Shadangi, **V. Shivam**, J. Basu, K. Chattopadhyay, B. Majumdar, N.K. Mukhopadhyay, "A novel AlCuFeMnMg low-density high entropy alloy processed by mechanical alloying and spark plasma sintering". (to be submitted)

(10) Y. Shadangi, **V. Shivam**, J. Basu, K. Chattopadhyay, B. Majumdar, N.K. Mukhopadhyay, "Mechanically driven phase transformation in Sn reinforced Al-Cu-Fe quasicrystalline matrix nanocomposite" *Journal of Alloys and Compounds* (submitted)

LIST OF CONFERENCE/ WORKSHOP PRESENTATIONS

(1) V. Shivam, J. Basu, N.K. Mukhopadhyay, "Effect of Mn and Ti addition on phase evolution and thermal stability of mechanically alloyed AlCoCrFeNi high-entropy alloy", *ISMANAM*, 08-12th July, 2019, Chennai, India

(2) V. Shivam, J. Basu, Y. Shadangi, M.K. Singh, N.K. Mukhopadhyay, "Phase evolution and thermal stability of mechanically alloyed AlCoCrFeNiMn HEA", *ISMANAM*, 02-06th July- 2018, Rome, Italy

(3) V. Shivam, J. Basu, Y. Shadangi, M.K. Singh, N.K. Mukhopadhyay, "Phase and microstructural evolution of mechanically alloyed AlCoCrFeNiMn high entropy alloy", *EMSI*, 18-20th July 2018, Bhubaneswar, India

(4) V. Shivam, N. K. Mukhopadhyay, "Synthesis of AlCoCrFeNi high entropy alloy (HEA) by mechanical alloying and microwave sintering", *IWHEM*, 11-12th March, 2017 Hyderabad, India

(5) V. Shivam, J. Basu, N.K Mukhopadhyay, "Synthesis of AlCoCrFeNiMn high entropy alloy (HEA) processed by mechanical alloying and microwave sintering", *EMSI*, 17-19th July 2017, IGCAR, Kalpakkam, Chennai, India

(6) V.Shivam, N.K. Mukhopadhyay, "Alloying behavior and properties evolution of AlCoCrFeNiMn high entropy alloy (HEA) processed by mechanical alloying and microwave sintering", *ICME*, 02-04th June 2017, IIT Kanpur, India

(7) V. Shivam, N.K. Mukhopadhyay, "Processing and Characterization of AlCoCrFeNi and AlCoCrFeNiMn high entropy alloys (HEAs) via Mechanical Alloying", *ICMR*, 20-22th June, 2016,IISc Bangalore, India

(8) V. Shivam, N.K. Mukhopadhyay, "Alloying behavior and properties evolution of AlCoCrFeNi high entropy alloy (HEA) during mechanical alloying", *NMD-ATM*, 11-14th Nov. 2016, IIT Kanpur, India

(9) V. Shivam, S.K Alla, R. K. Mandal and N. K. Mukhopadhyay, "Synthesis and Characterization of Fe-Al-Zn-Cr-Cu-Mg and Fe-Al-Zn-Cr-Cu-Mg-Co, High Entropy Alloys by High Energy Ball Mill", National workshop on HEAs, 28-29th March, 2015, IIT Madras, India.