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List of Publications

[1]. **D.K. Yadav**, Y. Shadangi, S.D. Yadav, S. Sinha, "Development of a high strength, low density and corrosion resistant novel FeCrMoNb1.5Ti0.5 complex concentrated alloy", Mater. Today Commun., 35 (2023) 105521.

[2]. **D.K. Yadav**, A.K. Patel, S.R. Hansda, A. Acharya, L. Marandi, S.D. Yadav, S. Sinha, "Comprehensive property combination for biomedical application achieved in a Ti35Zr35Nb15Mo5Fe5Cr5 complex concentrated alloy", Mater. Today Commun., 41 (2024) 110992.

[3]. **D.K. Yadav**, D. Paliwal, S.D. Yadav, S. Sinha, "Crystallographic texture dependence of biocompatibility in a Ti35Zr35Nb15Mo5Fe5Cr5 CCA", (Under Review).

[4]. **D.K. Yadav**, V. Gopal, A.K. Patel, A. Acharya, S.D. Yadav, S. Sinha, "Effect of high pressure torsion on the microstructure and properties of a biocompatible Ti35Zr35Nb15Mo5Fe5Cr5 complex concentrated alloy", (Under Review).

[5]. S.S. Nene, S. Sinha, **D.K. Yadav**, A. Dutta, "Metallurgical aspects of high entropy alloys", J. Alloy. Compd., 1005 (2024) 175849.

[6]. **D.K. Yadav**, A.B. Mandal, P. Sharde, L. Marandi, S. Sinha, "Tribological behavior of a Ti42Nb42Mo6Fe5Cr5 complex concentrated alloy and prediction through response surface methodology based mathematical modeling", J. Alloy. Met. Sys., 7 (2024) 100100.

[7]. N.K. Mindi, S.N. Alam, **D.K. Yadav**, S. Sinha, V. Kumar, K. Dutta, "Role of tungsten on the microstructure and mechanical properties of novel NiMnCrMoWx high entropy alloys", Mater. Today Commun., 42 (2025) 111088.

List of Conferences

[1]. Oral presentation titled **"Synthesis and Characterization of $Fe_{20}Cr_{20}Mo_{20}Nb_{30}Ti_{10}$ Complex Concentrated Alloy"** at the International Conference on recent advances in mechanical engineering (ICRAM-2022) held during 25-27th August 2022 at IIT Jodhpur, India.

[2]. Poster presentation titled **"Microstructural and Electrochemical Characterization of $Fe_{20}Cr_{20}Mo_{20}Nb_{30}Ti_{10}$ Complex Concentrated Alloy"** at the 76th annual technical meeting of Indian Institute of Metal (IIM-ATM-22) held at Hyderabad held during 13-16th November-2022 at Hyderabad, India.

[3]. Poster presentation titled "**Design and Development of Novel Complex Concentrated Alloys for Biomedical Applications"** in International Conference on Metallurgical Engineering and Centenary Celebration (METCENT-23) held during 26-28th at IIT (BHU), Varanasi, India.

[4]. Poster presentation titled "**Effect of annealing treatment on microstructure and properties of Fe-Cr-Mo-Nb-Ti based complex concentrated alloy"** at the 77th annual technical meeting of Indian Institute of Metal (IIM-ATM-23) held during 22-24th November-2023 at KIIT Bhubaneswar, India.

[5]. Poster presentation titled "**Influence of Annealing Treatment on Microstructure and Properties of $Ti_{35}Zr_{35}Nb_{15}Mo_5Fe_5Cr_5$ Complex Concentrated Alloy for Biomedical Application"** in Industry Insights and Academia Perspectives on High Entropy Alloys (IIAP-HEA) held during 5-7th April 2024 at IIT Jodhpur, India.