

LIST OF PUBLICATIONS

Faculty: Dr Sheela Singh

Department of Mechanical Engineering

JOURNAL PUBLICATIONS

Meenu Srivastava, Mahesh S.Jadhav, Chethana R.P.S, Chakradhar, **Sheela Singh**.

"Investigation of HVOF sprayed novel Al_{1.4}Co_{2.1}Cr_{0.7}Ni_{2.45}Si_{0.2}Ti_{0.14} HEA coating as bond coat material in TBC System." Alloys and Compounds, 2022. (Impact Factor: 6.37.) <https://doi.org/10.1016/j.jallcom.2022.166388>

Sheela Singh, K.S. Disna Sahane, D. Sivaprahasam, S. Senthil Kumar, Singanahally T. Aruna, A. Karthigeyan. "Investigation on High Entropy Alloys as Interconnect Material for Intermediate Temperature Solid Oxide Fuel Cells." Alloys and Compounds, 2022. (Impact Factor: 6.37.) <https://doi.org/10.1016/j.jallcom.2022.168000>

Hari Prasanth, Mahesh Jadhava, E. Meher Abhinav, Jaivardhan Sinha & **Sheela Singh**.

"ENHANCED MAGNETIZATION WITH INCREASED CHROMIUM CONCENTRATION IN FeCoCrNi₂Al HIGH-ENTROPY ALLOY." Materials Science and Technology, 2021. (Impact Factor: 2.06.) <https://doi.org/10.1080/02670836.2021.2021499>

Jadhav M., **Singh S.**, Srivastava M., Chethan, Chakradhar R.P.S., Panigrahi B.B. "Effect of minute element addition on the oxidation resistance of FeCoCrNiAl and FeCoCrNi₂Al high entropy alloy." Advanced Powder Technology, 2021. Impact Factor: 4.96. <https://doi.org/10.1016/j.appt.2021.103410>

Sahane, D, **Singh, S.** Jadhav, M. Panigrahi B. B. "Isothermal and Non-isothermal Sintering Characteristics of Mechanically Alloyed Nonequiatomic Fe₂CoCrMnNi High Entropy Alloy Powder." Powder Metallurgy, 2020. (Impact Factor: 1.911.) <https://doi.org/10.1080/00325899.2020.1858586>

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Davis, Deepak, Gobinath Marappan, Yuvaraj Sivalingam, Bharat B. Panigrahi, and **Sheela Singh**. "Tribological Behavior of NiMoAl-Based Self-Lubricating Composites." ACS Omega, 2020, 5, 24, 14669–14678. Impact Factor: 2.870 (Status: Corresponding author) <https://doi.org/10.1021/acsomega.0c01409>

Deepak Davis, **Sheela Singh**, R.P.S Chakradhar, and Meenu Srivastava, "Tribo-Mechanical Properties of HVOF Sprayed NiMoAl-Cr₂AlC Composite Coatings." Journal of Thermal Spray Technology, 2020, 29, 1763–1783. Impact Factor: 2.522 (Status: Corresponding author)

Davis, Deepak, **Sheela Singh**, and Meenu Srivastava. "Influence of solid lubricants addition on the tribological properties of HVOF sprayed NiMoAl coating from 30° C to 400° C." *Materials Letters* 266 (2020): 127494. Impact factor: 3.204 (Status: Corresponding author)

Davis, Deepak, Gobinath Marappan, Yuvaraj Sivalingam, Bharat B. Panigrahi, and **Sheela Singh**. "Tribological Behavior of NiMoAl-Based Self-Lubricating Composites." *ACS Omega*, 2020, 5, 24, 14669–14678. Impact Factor: 2.870 (Status: Corresponding author) <https://doi.org/10.1021/acsomega.0c01409>

Formation of Solid Solution Phase in CoCrFeNiX and CoCuFeNiX(X=Ti,Zn,Si,Al) High Entropy Alloys, Jil Joy, Mahesh Jadhav, Disna Sahane, Deepak Davis, **Sheela Singh**, *Materials Science and Technology*, (2019) (DOI: 10.1080/02670836.2019.1639888)

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Development of ZnO/Ag composite for gas sensing, Deepak Davis, Sheela Singh, applications, *Asian journal of chemistry*, 29 (9) 1977-1980, (2017).

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Mechanically activated reaction synthesis of $\text{Si}_3\text{N}_4\text{-MoSi}_2$ in-situ composites, **Sheela Singh**, M.M Godkhindi, R.V Krishnarao and B.S Murty Transaction of Powder Metallurgy Association of India, 29 74-80 (2003).