Journal Publications

1. **Influence of nitrogen flow rate on microstructural and nanomechanical properties of Zr–N thin films prepared by pulsed DC magnetron sputtering**
   Akash Singh, P. Kuppusami, Shabana Khan, C. Sudha, Thirumurugesan, R. Ramaseshan, R.Divakar, E. Mohandas, S. Dash,

2. **Characterization of mechanical properties and microstructure of highly irradiated SS 316**,
   V. Karthik, Ranvijay Kumar, A. Vijayaragavan, C.N. Venkiteswaran, V. Anandaraj, P. Parameswaran, S. Saroja, N.G. Muralidharan, Jojo Joseph, K.V. Kasiviswanathan, T. Jayakumar, Baldev Raj,

3. **GBgeom: a computer program for visualizing texture parameters and simulating grain boundary structures in cubic crystals**, 
   T. Karthikeyan and S. Saroja,

4. **Evaluation of interface boundaries in 9Cr-1Mo steel after thermal and thermo-mechanical treatments**, 
   T. Karthikeyan, Manmath Kumar Dash, S. Saroja and M. Vijayalakshmi,

5. **Evaluation of misindexing of EBSD patterns in a ferritic steel**, 
   T. Karthikeyan, M.K. Dash, S. Saroja and M. Vijayalakshmi,
   *J. Microscopy*, 249 (2013) 26-35

6. **Study of microstructure and microtexture of modified 9Cr-1Mo steel subjected to high deformation**, 
   Pradyumna Kumar Parida, Arup Dasgupta, Saroja Saibaba,

7. **Experimental and Thermokinetic simulation studies on the formation of deleterious zones in dissimilar ferritic steel weldments**, 
   R. Anand, C. Sudha, S. Saroja and M. Vijayalakshmi

8. **Effect of cooling rate on mechanism of $\beta \rightarrow \alpha$ phase transformation on continuous cooling in Ti-5Ta-1.8Nb Alloy**, 
   M. Behera, R. Mythili, S.Raju, S. Saroja,
   *J. Alloys Compd*, 553 (2013) 59-68

9. **Calorimetric Investigation of Phase Stability and Thermal Properties in Ti-5mass%Ta alloy**, 


10. A Calorimetric Study of Recovery and Recrystallization in Fe–14.4 Cr–15.4 Ni–2.4Mo–2.36 Mn–0.25 Ti–0.04 C–0.05 P (mass %) Austenitic Stainless Steel, Haraprasanna Tripathy, S. Raju, Arun Kumar Rai, T. Jayakumar, Steel Res. Int. 84 (2013) 1046-1059


17. Thermal stability and thermal property characterisation of Fe–14.4Cr–15.4Ni–2.4Mo–2.36Mn–0.25Ti–1.02Si–0.042C–0.04P–0.005B (mass%) austenitic stainless steel (Alloy D9I) Haraprasanna Tripathy, Arun Kumar Rai, S. Raju, G. Panneerselvam, T. Jayakumar Nucl. Engng. and Design, 255 (2013) 86-96,


19. Phase Transformation Studies in U-xZr (x= 2, 5, 10 wt.%) Alloys Using Dynamic Calorimetry,


29. Characterisation of ZrAl and ZrAlN Thin Films Prepared by Pulsed DC Magnetron Sputtering,
Akash Singh, P Kuppusami, R Thirumurugesan, R Ramasheshan, S Das, E Mohandas,

30. Effect of isothermal heat treatment on microstructure and mechanical properties of Reduced Activation Ferritic Martensitic steel,
K.S. Chandravathi, C.S. Sasmal, K. Laha, P. Parameswaran, M. Nandagopal, V.D. Vijayanand, M.D. Mathew, T. Jayakumar, E. Rajendra Kumar,

31. Electroextraction of boron from boron carbide scrap,
Ashish Jain, S. Anthonysamy, C. Ghosh, T.R. Ravindra and R. Divakar, E. Mohandas,
Materials Characterization 84 (2013) 134-141

32. Influence of dynamic strain aging on the deformation behavior during ratcheting of a 316LN stainless steel,
Aritra Sarkar, A. Nagesha, P. Parameswaran, R. Sandhya, M.D. Mathew,
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33. Microstructural and optical characterisation of ZrO$_2$/Y$_2$O$_3$ multilayers prepared by pulsed laser deposition,
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34. X-ray diffraction, Raman and photoluminescence studies of nanocrystalline cerium oxide thin films,
G. Balakrishnan, C.M. Raghavan, Chanchal Ghosh, R. Divakar, E. Mohandas, Jung Il Song, S.I. Bae, Tae Gyu Kim,
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35. Structural characterisation of electrodeposited boron,
Ashish Jain, Chanchal Ghosh, T. R. Ravindran, S. Anthonysamy, R. Divakar, E. Mohandas, G. S. Gupta,

36. Effect of Capping Front Layer Materials on the Penetration Resistance of Q&T Steel Welded Joints Against 7.62-mm Armor-Piercing Projectile,
M. Balakrishnan, V. Balasubramanian, G. Madhusudhan Reddy, P. Parameswaran,
Metallurgical and Materials Transactions A 44 (2013) 4218-4229

37. Failure analysis of leaked stainless steel housing of electro chemical hydrogen metre,
V. Thomas Paul, M. Radhika, P. Parameswaran, V.A. Suresh Kumar, I.B. Noushad, S. Saroja, M. Vijayalakshmi


**Conference proceedings**


4. **Synthesis of magnesium doped ceria (CeO$_2$) nanocrystalline powder by microwave method,**
P. Suriakala, S. Murugesan, K. Tamilarasan,

5. **Microstructural, nanomechanical and tribological properties of ZrAlN thin films prepared by pulsed DC magnetron sputtering,**
P. Kuppusami, A. Singh, E. Mohandas,