List of Publications

- 1. Sunilkumar, D., Dey, H.C., Albert, S.K. et al. Characterization of Interfacial Microstructure and Mechanical Properties of the Diffusion Bonded CP-Ti to AISI 304L Stainless Steel. Trans Indian Inst Met (2020). https://doi.org/10.1007/s12666-020-02116-2.
- 2. RKKSB R. Sundar, C. Sudha, A. K. Rai, P. Ganesh, Ashish Kolhatkar, S. Effect of laser shock peening on the microstructure, tensile and heat transport properties of Alloy D9 Lasers in Manufacturing and Materials Processing 7, 259-277.
- 3. Beatriceveena, T. V., Murthy, A. S. R., Prabhu, E., & Gnanasekar, K. I. (2020). Wide range hydrogen sensing behavior of a silver delafossite: Performance towards long term stability, repeatability and selectivity. International Journal of Hydrogen Energy.
- 4. R Priya, S Ningshen, S Murugesan, P Parameswaran Microstructure and corrosion behaviour of ferritic steel–Zr-based metal waste form alloys in simulated ground water Corrosion Engineering, Science and Technology 54 (6), 529-540.
- 5. S Haribabu, C Sudha, S Raju, RN Hajra, R Mythili, J Jayaraj, Effect of Al addition on the microstructure and phase stability of P91 ferritic-martensitic steel Metallurgical and Materials Transactions A 50 (3), 1421-1436.
- 6. S Murugesan, R Thirumurugesan, E Mohandas, P Parameswaran X-ray diffraction Rietveld analysis and Bond Valence analysis of nano titania containing oxygen vacancies synthesized via sol-gel route Materials Chemistry and Physics 225, 320-330.
- 7. VT Paul, S Mahadevan, SK Krovvidi, S Goyal, S Murugesan, Failure Analysis of Motorized Bellow-Sealed Valve of Sodium Loop in Fast Breeder Test Reactor Journal of Failure Analysis and Prevention 19 (1), 237-244.
- 8. A Singh, P Parameswaran, R Thirumurugesan, AK Panda, S Murugesan, Development and Characterization of MgO Coatings on 316L Stainless Steel Transactions of the Indian Institute of Metals 72 (2), 319-325.
- 9. VT Paul, B Sundaravel, S Murugesan, P Parameswaran, Proton Irradiation Induced Hardening and Its Recovery During Healing Treatment of Modified 9Cr–1Mo Steel Transactions of the Indian Institute of Metals 71 (9), 2293-2301.
- 10. AK Panda, A Singh, R Divakar, NG Krishna, VR Reddy, Crystallographic texture study of pulsed laser deposited Cr2O3 thin films Thin Solid Films 660, 328-334.
- 11. S Murugesan, R Thirumurugesan, P Parameswaran Understanding microstrain anisotropy in yttrium oxide synthesized by sol-gel route AIP Conference Proceedings 1942 (1), 050063.
- 12. B Aashranth, D Samantaray, MA Davinci, S Murugesan, U Borah, ...A micro-mechanism to explain the post-DRX grain growth at temperatures> 0.8 Tm Materials Characterization 136, 100-110.
- 13. AK Rai, N Vijayashanthi, H Tripathy, RN Hajra, S Raju, S Murugesan, Investigation of diffusional interaction between P91 grade ferritic steel and Fe-15 wt.% B alloy and study of kinetics of boride formation at high temperature Journal of Nuclear Materials 495, 58-66.
- 14. G Chakraborty, PK Chaurasia, S Murugesan, SK Albert, S Murugan Effect of brazing temperature on the microstructure of martensitic–austenitic steel joints Materials Science and Technology 33 (11), 1372-1378.

- 15. GSD Babu, XS Shajan, A George, P Parameswaran, S Murugesan, Low-cost hydrothermal synthesis and characterization of pentanary Cu2ZnxNi1- xSnS4 nanoparticle inks for thin film solar cell applications Materials Science in Semiconductor Processing 63, 127-136.
- 16. M Sabeena, S Murugesan, P Anees, E Mohandas, M Vijayalakshmi Crystal structure and bonding characteristics of transformation products of bcc β in Ti-Mo alloys Journal of Alloys and Compounds 705, 769-781.
- 17. P Bhaskar, A Dasgupta, S Murugesan, S Saroja Comparison of Microtexture Evolution During Cryo and Room Temperature Rolling of Ti–5Ta–2Nb Alloy Transactions of the Indian Institute of Metals 70 (4), 927-933.
- 18. A Singh, S Murugesan, P Parameswaran, R Priya, R Thirumurugessan, Characterization and performance of magnetron-sputtered zirconium coatings deposited on 9Cr-1Mo steel Journal of Materials Engineering and Performance 25 (11), 4666-4679.
- 19. S Raju, B Jeyaganesh, H Tripathy, S Murugesan, S Saibaba, SK Albert, Thermal stability, phase transformation characteristics, and thermal properties of T91 steel and welding consumables Welding in the World 60 (5), 963-977
- 20. A Sarkar, A Nagesha, P Parameswaran, S Murugesan, R Sandhya, Insights into dynamic strain aging under cyclic creep with reference to strain burst: Some new observations and mechanisms part-II: Microstructural aspects Materials Science and Engineering: A 660, 225-240.
- 21. G Chakraborty, CR Das, SK Albert, AK Bhaduri, S Murugesan, Effect of alloy 625 buffer layer on Hardfacing of modified 9Cr-1Mo steel using nickel base Hardfacing alloy Journal of Materials Engineering and Performance 25 (4), 1663-1672.
- 22. M Sabeena, A George, S Murugesan, R Divakar, E Mohandas, Microstructural characterization of transformation products of bcc β in Ti-15 Mo alloy Journal of Alloys and Compounds 658, 301-315.
- 23. J Purushothaman, R Ramaseshan, SK Albert, R Rajendran, Influence of surface roughness and melt superheat on HDA process to form a tritium permeation barrier on RAFM steel Fusion Engineering and Design 101, 154-164.
- 24. TN Prasanthi, C Sudha, S Murugesan, VT Paul, S Saroja Reverse transformation of deformation-induced phases and associated changes in the microstructure of explosively clad Ti-5Ta-2Nb and 304L SS Metallurgical and Materials Transactions A 46 (10), 4429-4435.
- 25. M Mishra, P Kuppusami, S Murugesan, C Ghosh, R Divakar, A Singh, Thermal stability and thermal expansion behaviour of ZrO2/Y2O3 multilayers deposited by pulsed laser deposition technique Materials Chemistry and Physics 162, 592-607.
- 26. M Sabeena, S Murugesan, R Mythili, AK Sinha, MN Singh, Studies on ω phase formation in Ti-Mo alloys using synchrotron XRD Transactions of the Indian Institute of Metals 68 (1), 1-6.
- 27. M Shahid, D Shikha, SK Sinha, U Jha, S Murugesan, E Mohandas, Morphological Study of HAP Coated Alumina by Sol-Gel Method for Orthopedic Implants Advanced Materials Research 1086, 50-60.