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PRINCIPAL RESEARCH OF INTEREST

- Welding technology
- Optimization techniques Coating
- Additive manufacturing
- Finite Element Simulation

Publications:

1. Selvabharathi, Rajendran, Murugan Selvam, and Subbiah Kone Palani. "Investigation of performance, combustion, and emission characteristics of diesel engine equipped with exhaust gas recirculation using ceria and zirconia nanoparticles-blended rice bran biodiesel." *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (2020): 1-19.
2. Prasath, N. Eswara, and R. Selvabharathi. "Influence of Plasma Transfer Arc Cladding of NiCrBFe filler powder on microstructure and tensile properties of Titanium Grade 2 and Ti 6Al-4V alloy dissimilar joint prepared by laser beam welding." *Optics & Laser Technology* 128 (2020): 106206.
3. Logesh, M., R. Selvabharathi, T. Thangeeswari, and S. Palani. "Influence of severe double shot peening on microstructure properties of Ti 6Al-4V and Titanium Grade 2 dissimilar joints using laser beam welding." *Optics & Laser Technology* 123 (2020): 105883.
4. Shankarganesh, P. S. P., and R. Selvabharathi. "Influence of filler wires and high velocity oxygen fuel coating on the structural properties of Inconel 600 and Nickel alloy 800 HT dissimilar joints using autogenous cold metal transfer welding." *Materials Research Express* 6, no. 10 (2019): 106530.
5. Shankarganesh, P. S. P., R. Muralikannan, R. Selvabharathi, and R. Karuppasamy. "Investigation of tensile, flexural and impact properties of Neem-Indian almond hybrid fiber based epoxy composites." *Materials Research Express* 6, no. 8 (2019): 085322.
6. Srinivasan, R. Ganapathy, R. Selvabharathi, S. Palani, and R. Karuppasamy. "Influence of high-velocity oxygen fuel spraying and plasma nitriding on microstructure properties of iron-nickel-chromium alloy using hybrid surface heat treatment." *Materials Research Express* 6, no. 8 (2019): 086584.
7. Selvabharathi, R. "Effect of post weld heat treatment and TiAlSiN coating on the tensile strength of autogenous plasma arc welding of duplex/super austenitic stainless steels." *Journal of Manufacturing Processes* 38 (2019): 135-147.
8. Bharathi, R. Selva, N. Siva Shanmugam, R. Murali Kannan, and S. Arungalai Vendan. "Studies on the Parametric Effects of Plasma Arc Welding of 2205 Duplex Stainless Steel." *High Temperature Materials and Processes* 37, no. 3 (2018): 219-232.

9. Selvabharathi, R., and R. Muralikannan. "Influence of shot peening and plasma ion nitriding on tensile strength of 2205 duplex stainless steel using A-PAW." *Materials Science and Engineering: A* 709 (2018): 232-240.