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Area of Specialization	Welding, Additive Manufacturing, Heat and fluid flow

List of Publication (Last 5 years):

1. Chalawadi, Damodar, Subramanian Palani Kumaresh Babu, and **Veeman Dhinakaran**. "Experimental Investigation of TIG Welded Additive Manufactured Inco-718 Sheets." Materials Research 23, no. 2 (2020). **(SCIE)**
2. Arunkumar, Muthusamy, **Veeman Dhinakaran**, Nallathambhi Sivashanmugam, and Vijay Petley. "Effect of Plasma Arc Welding on Residual Stress and Distortion of Thin Titanium Sheet." Materials Research 22, no. 6 (2019). **(SCIE)**
3. **Veeman, Dhinakaran**, T. Sathish, Vijay Petley, and Gokulakrishnan Sriram. "EXPERIMENTAL INVESTIGATION ON PLASMA ARC WELDED Ti64 SHEETS." Transactions of the Canadian Society for Mechanical Engineering ja (2019). **(SCIE)**
4. **Dhinakaran, V.**, N. Siva Shanmugam, K. Sankaranarayanan, and R. Rahul. "Analytical and numerical investigations of weld bead shape in plasma arc welding of thin Ti-6Al-4V sheets." Simulation 93, no. 12 (2017): 1123-1138. **(SCIE)**
5. **Dhinakaran, V.**, N. Siva Shanmugam, and K. Sankaranarayanan. "Experimental investigation and numerical simulation of weld bead geometry and temperature distribution during plasma arc welding of thin Ti-6Al-4V sheets." The Journal of Strain Analysis for Engineering Design 52, no. 1 (2017): 30-44. **(SCIE)**
6. **Dhinakaran, V.**, N. Siva Shanmugam, and K. Sankaranarayanan. "Some studies on temperature field during plasma arc welding of thin titanium alloy sheets using parabolic Gaussian heat source model." Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science 231, no. 4 (2017): 695-711. **(SCIE)**
7. **Dhinakaran, V.**, and T. Jagadeesha. "Mechanical and Tribological Properties of Al-Mg-SiC Metal Matrix Composite for Pistons of Two-Stroke Engine." In Advances in Industrial Automation and Smart Manufacturing, pp. 673-683(2020). Springer, Singapore.
8. **Dhinakaran, V.**, R. Surendran, KP Manoj Kumar, A. Rahul Kumar, B. K. Nagesha, and M. D. Vijayakumar. "Numerical Analysis on Gas Turbine Blade of a Nickel-Based Alloy with Titanium Alloy." In Advances in Industrial Automation and Smart Manufacturing, pp. 663-671(2020). Springer, Singapore.
9. Subhash, N., **V. Dhinakaran**, and T. Jagadeesha. "Finite Element Modelling of Cutting Forces in Turning of Ti-6Al-4V Alloy." In Advances in Industrial Automation and Smart Manufacturing, pp. 439-446(2020). Springer, Singapore.
10. Stalin, B., **V. Dhinakaran**, M. Ravichandran, K. Sathiya Moorthi, and J. Vairamuthu. "Fracture Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle." In

Advances in Industrial Automation and Smart Manufacturing, pp. 47-55(2020). Springer, Singapore.

11. Arunkumar, M., **V. Dhinakaran**, and N. Siva Shanmugam. "Numerical prediction of temperature distribution and residual stresses on plasma arc welded thin titanium sheets." *International Journal of Modelling and Simulation* (2019): 1-17.
12. S. Dineshkumar, Shrinidhy Sriram, R Surendran, **V. Dhinakaran** "Experimental Investigation of Tensile Properties of Ti-6Al-4V alloy at Elevated Temperature" *International Journal of Recent Technology and Engineering* 8, no.1S2 (2019): 103-107.
13. Nagesha, B. K., **V. Dhinakaran**, M. Varsha Shree, KP Manoj Kumar, and T. Jagadeesha. "A review on weldability of additive manufactured titanium alloys." *Materials Today: Proceedings* (2020).
14. Kolekar, Shreedhar, **V. Dhinakaran**, T. Jagadeesha, and Choi Seung Bok. "Design, Fabrication and Testing of Magnetorheological Damper System for Machine Tool Application." In *Advances in Industrial Automation and Smart Manufacturing*, pp. 13-31(2020). Springer, Singapore.
15. Agarwal, Rahul, **V. Dhinakaran**, and T. Jagadeesha. "Fatigue analysis of similar and dissimilar spot welds." In *AIP Conference Proceedings*, vol. 2283, no. 1, p. 020055. AIP Publishing LLC, 2020.
16. Ram, PM Bupathi, **V. Dhinakaran**, KP Manoj Kumar, Surendar Kannan, and H. Mohit. "A FEA Model to Predict Mechanical Properties of Laminated Bamboo Composites." In *Advances in Industrial Automation and Smart Manufacturing*, pp. 587-595. Springer, Singapore.
17. Stalin, B., **V. Dhinakaran**, M. Ravichandran, K. Sathiya Moorthi, and J. Vairamuthu. "Buckling Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle." In *Advances in Industrial Automation and Smart Manufacturing*, pp. 177-183. Springer, Singapore.
18. Kishore, CH Veera, **V. Dhinakaran**, and T. Jagadeesha. "Study and analysis of stress and pressure variations on Indian railway wheel." In *AIP Conference Proceedings*, vol. 2283, no. 1, p. 020058. AIP Publishing LLC, 2020.
19. **Dhinakaran, V.**, M. D. Vijayakumar, G. Muthu, and T. Sathish. "Experimental investigation of hybrid fibre reinforced polymer composite material and its microstructure properties." *Materials Today: Proceedings* (2020).
20. **Dhinakaran, V.**, K. V. Surendar, MS Hasunfur Riyaz, and M. Ravichandran. "Review on study of thermosetting and thermoplastic materials in the automated fiber placement process." *Materials Today: Proceedings* (2020).