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List of Publications for last 5 years

(i) <u>In Referred International Journals:</u>

1. D.Thirumalaikumarasamy, K.Shanmugam and V.Balasubramanian, "Effect of experimental parameters on the micro hardness of plasma sprayed alumina coatings on AZ31B magnesium alloy", Journal of Magnesium and Alloys (Elsevier) (CI-10), Vol. 3, 237-246, 2015.

2. D.Thirumalaikumarasamy, K.Shanmugam and V.Balasubramanian, "Predicting the immersion corrosion behaviour in NaCl solution of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy", International Journal of Computational Materials Science and Surface Engineering (Inderscience), Vol.6, 130-159, 2015.

3. D.Thirumalaikumarasamy, K.Shanmugam and V.Balasubramanian, "Developing empirical relationships to predict porosity and microhardness of atmospheric plasma-sprayed alumina coatings on AZ31B magnesium alloy", Journal for Manufacturing Science and Production (Degruyter), Vol.15, 169-181, 2015.

4. D.Thirumalaikumarasamy, K.Shanmugam, V.Balasubramanian and S.Vignesh, "Effect of pH, chloride ion concentration and immersion time on the microstructural and corrosion properties of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy under immersion environment", Journal of Advanced Microscopy Research, Vol.11, 62-71, 2016.

5. D.Thirumalaikumarasamy, K.Shanmugam, V.Balasubramanian and S.Vignesh, "Microstructural and corrosion properties of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy under sodium chloride environment", Journal for Manufacturing Science and Production (Degruyter), Vol.16, 89-102, 2016.

6. S. Vignesh, K.Shanmugam, V. Balasubramanian, K.Sridhar and D.Thirumalaikumara-samy, "Electrochemical corrosion behaviour of HVOF sprayed iron based amorphous metallic coatings on AISI 316 stainless steel in NaCl solution", Journal of the Mechanical Behavior of Materials (Degruyter), 2018.

(ii) <u>In Referred National Journals:</u>

1. D.Thirumalaikumarasamy K.Shanmugam and V.Balasubramanian, "Statistical analysis and optimization of atmospheric plasma spraying parameters to attain maximum corrosion resistance in alumina coatings on AZ31B Magnesium alloy", Manufacturing Technology Today (CMTI), Vol.14, 10-26, 2015.

2. D.Thirumalaikumarasamy K.Shanmugam V.Balasubramanian, and S.Sree Sabari, "Corrosion and metallurgical characteristics of AZ31B magnesium alloy under NaCl environment", Manufacturing Technology Today (CMTI), Vol. 15, 9-28, 2016.

3. D.Thirumalaikumarasamy K.Shanmugam and V.Balasubramanian, "Microstructural characterization and immersion corrosion behavior of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy in NaCl solution", Manufacturing Technology Today (CMTI), Vol. 15, 10-23, 2016.

4. D.Thirumalaikumarasamy K.Shanmugam V.Balasubramanian, and R. Kamal Jayaraj, "Multiobjective optimization of atmospheric plasma spray process parameters to deposit alumina coatings based on response surface methodology", Journal of Manufacturing Engineering (SME), Vol.12, 82-93, 2017.

5. D.Thirumalaikumarasamy K.Shanmugam and V.Balasubramanian, "Influence of spraying time on corrosion behavior of plasma sprayed alumina coatings on AZ31B magnesium alloy under salt fog environment", Indian Journal of Engineering & Materials Sciences, 2020 (Accepted).