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**Last 5 years publications details**

S.No	Title of the Paper	Author(s)	Name & Volume of the Journal & Year	Page No. ----- From-To	Impact factor
1	Effect of pulse frequency on tensile properties and microstructural characteristics of gas tungsten arc welded AZ31B magnesium alloy	V.Subravel, <b><u>G.Padmanaban</u></b> and V.Balasubramanian	Transactions of the Indian Institute of Metals (Springer) Vol. 68(3), 2015	353–362	0.910
2	Fatigue behaviour of Friction stir welded AZ31B magnesium alloy joints	S. Venkaesan, G.P. Rajamani, V. Balasubramanian and <b>G. Padmanaban</b>	Applied Mechanics and Materials Vol. 787,2015	355-360	--
3	Effect of welding speed on tensile properties and microstructural characteristics of magnetic arc oscillation welded AZ31B magnesium alloy	V.Subravel, <b><u>G.Padmanaban</u></b> and V.Balasubramanian	Journal of Advanced Microscopy Research Vol. 12(1), 2017	50-59	UGC approved Journal (Journal No. - 26293)
4	Effect of Laser Power on Metallurgical, Mechanical and Tribological	S.Gnanasekaran, <b><u>G.Padmanaban</u></b> V.Balasubramanian	Lasers in Manufacturing and Material Processing	178-192	--

	Characteristics of Hardfaced Surfaces of Nickel-Based Alloy		Vol. 4, Issue 4, 2017		
5	Optimizing the laser parameters to attain maximum hardness in nickel based hardfacing surfaces	S.Gnanasekaran, <b>G.Padmanaban</b> V.Balasubramanian  Hemant Kumar and Shaju K Albert	Journal of the Mechanical Behavior of Materials  Vol. 26(3-4), 2017	113-125	UGC approved Journal (Journal No. - 11195)
6	Effect of Laser Hardfacing Process Parameters on microstructural Characteristics and Microhardness of Ni-Cr-B-Si-C Deposit on Austenitic stainless steel Substrate	S.Gnanasekaran, <b>G.Padmanaban</b> V.Balasubramanian	Journal of Advanced Microscopy Research  Vol. 12(3)  2017	173-181	UGC approved Journal (Journal No. - 26293)
7	Sliding wear characteristics of friction stir processed cast ZK60 magnesium alloy under different applied loads	M.Vigneshkumar <b>G.Padmanaban</b> V.Balasubramanian	Transactions of the Indian Institute of Metals (Springer)  Vol. 71(5)  2018	1223-1230	0.910
8	Effect of Peak Current to Base Current Ratio ( $I_p / I_b$ ) on Fusion Zone Characteristics of GTA Welded AZ31B Magnesium Alloy	V.Subravel, <b>G.Padmanaban</b> and V.Balasubramanian	International Innovative Research Journal of Engineering and Technology  Vol: 4 Special Issue 2018	232 - 235	ISSN: 2456-1983
9	Influence of tool rotational speed on the formation of Friction stir processing zone in cast ZK60/SiC <sub>p</sub> Magnesium alloy surface composites	M.Vigneshkumar <b>G.Padmanaban</b> V.Balasubramanian	Materials Performance and Characterization  (ASM International) Vol. 8 (1)  2019	22-33	UGC approved Journal (Journal No 3981)

10	Correlation between Travel Speed, Microstructure, Mechanical properties and Wear Characteristics of Ni-Based Hardfaced Deposits over 316LN Austenitic Stainless Steel	S. Gnanasekaran*, G. Padmanaban, V. Balasubramanian, Hemant Kumar and Shaju K. Albert	High Temperature Materials and Processes Vol.38 (2019)	16-29	UGC approved Journal (Journal No 18061)
11	Laser hardfacing of Colmonoy-5 (Ni-Cr-Si-B-C) Powder onto 316LN Austenitic Stainless Steel: Effect of Powder Feed Rate on Microstructure, Mechanical Properties and Tribological Behavior	S.Gnanasekaran, <b>G.Padmanaban</b> V.Balasubramanian Hemant Kumar and Shaju K Albert	Lasers in Engineering Vol.42 (4-6) (2019)	283-302	UGC approved Journal (Journal No. 4396)
12	Effect of Tool Pin Profile on Microstructure and Hardness of Magnesium Alloy ZK60/SiCp Surface composites Fabricated by Friction Stir Processing	M.Vigneshkumar <b>G.Padmanaban</b> V.Balasubramanian	Journal of Testing and Evaluation <b>(ASTM International)</b> Vol.47 (6) (2019)	--	0.669  (UGC approved Journal  Journal No 10794)
13	Influence Of Tool Tilt Angle On The Formation Of Friction Stir Processing Zone In Cast Magnesium Alloy Zk60/Sicp Surface Composites	M.Vigneshkumar <b>G.Padmanaban</b> V.Balasubramanian	Metallography, Microstructure, and Analysis <b>(ASM International)</b> Vol.8 (1) (2019)	58-66	0.78  UGC approved Journal (Journal No 31029)

14	Role of Tool Pin Profiles on Wear Characteristics of Friction Stir Processed Magnesium Alloy ZK60/SiCp Surface Composites	M.Vigneshkumar <b>G.Padmanaban</b> V.Balasubramanian	Material Science and Engineering Technology <b>(Wiley)</b> <b>(Accepted)</b> <b>(2020)</b>	--	ISSN:1521-4052 0.625
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