Pilar P Rodrigo

List of Publications by Year in descending order

48 papers	1,293 citations	361296 20 h-index	360920 35 g-index
48 all docs	48 docs citations	48 times ranked	1052 citing authors

#	Article	IF	Citations
1	Oxidation treatments for SiC particles used as reinforcement in aluminium matrix composites. Composites Science and Technology, 2004, 64, 1843-1854.	3.8	136
2	Corrosion resistance of thermally sprayed Al and Al/SiC coatings on Mg. Surface and Coatings Technology, 2009, 203, 3224-3230.	2.2	106
3	Dry sliding wear behavior of AM50B magnesium alloy. Materials & Design, 2014, 56, 549-556.	5.1	77
4	Corrosion behaviour of laser surface melted magnesium alloy AZ91D. Materials & Design, 2014, 57, 40-50.	5.1	73
5	Analysis and optimization of process parameters in Alâ€“SiCp laser cladding. Optics and Lasers in Engineering, 2016, 78, 165-173.	2.0	68
6	Dry sliding wear behaviour of ZE41A magnesium alloy. Wear, 2011, 271, 2836-2844.	1.5	67
7	Microstructure and wear resistance of Alâ€“SiC composites coatings on ZE41 magnesium alloy. Applied Surface Science, 2009, 255, 9174-9181.	3.1	58
8	Corrosion behaviour of thermally sprayed Al and Al/SiCp composite coatings on ZE41 magnesium alloy in chloride medium. Corrosion Science, 2010, 52, 761-768.	3.0	54
9	Selective laser surface melting of a magnesium-aluminium alloy. Materials Letters, 2012, 85, 98-101.	1.3	47
10	Microstructural, mechanical and corrosion characterization of an as-cast Mgâ€“3Znâ€“0.4Ca alloy for biomedical applications. Journal of Magnesium and Alloys, 2020, 8, 510-522.	5.5	44
11	Three-dimensional characterization of stress corrosion cracks. Journal of Nuclear Materials, 2011, 408, 289-295.	1.3	42
12	Wear behaviour of thermal spray Al/SiCp coatings. Wear, 2010, 268, 828-836.	1.5	40
13	Effect of alloy elements added on microstructure and hardening of Al/SiC laser clad coatings. Journal of Alloys and Compounds, 2017, 727, 671-682.	2.8	36
14	Mgâ€“1Znâ€“1Ca alloy for biomedical applications. Influence of the secondary phases on the mechanical and corrosion behaviour. Journal of Alloys and Compounds, 2020, 831, 154735.	2.8	35
15	Novel laser surface treatments on AZ91 magnesium alloy. Surface and Coatings Technology, 2013, 222, 118-127.	2.2	33
16	Role of Laser Cladding Parameters in Composite Coating (Al-SiC) on Aluminum Alloy. Journal of Thermal Spray Technology, 2016, 25, 1177-1191.	1.6	31
17	Comparison of Different Additive Manufacturing Methods for 316L Stainless Steel. Materials, 2021, 14, 6504.	1.3	30
18	Effect of reinforcement geometry on precipitation kinetics of powder metallurgy AA2009/SiC composites. Journal of Alloys and Compounds, 2009, 479, 451-456.	2.8	28

#	Article	IF	Citations
19	Characterisation and mechanical properties of Al/SiC metal matrix composite coatings formed on ZE41 magnesium alloys by laser cladding. Results in Physics, 2019, 13, 102160.	2.0	25
20	Effect of the process parameters in the additive manufacturing of in situ Al/AlN samples. Journal of Manufacturing Processes, 2019, 46, 271-278.	2.8	24
21	Active coatings for SiC particles to reduce the degradation by liquid aluminium during processing of aluminium matrix composites: study of interfacial reactions. Journal of Microscopy, 2001, 201, 122-136.	0.8	20
22	Characterization of Mesoporosity in Ceria Particles Using Electron Microscopy. Microscopy and Microanalysis, 2011, 17, 54-60.	0.2	19
23	Title is missing!. Journal of Materials Science, 2001, 36, 429-439.	1.7	18
24	Electroless multilayer coatings on aluminiumâ€“silicon carbide composites for electronics packaging. Journal of the European Ceramic Society, 2007, 27, 3983-3986.	2.8	18
25	Influence of process parameters in additive manufacturing of highly reinforced 316L / SiCp composites. Journal of Materials Processing Technology, 2022, 299, 117325.	3.1	17
26	Interfacial reactions in an Al-Cu-Mg (2009)/SiCw composite during liquid processing Part I Casting. Journal of Materials Science, 2001, 36, 419-428.	1.7	16
27	Identification of Ïƒ and Î© phases in AA2009/SiC composites. Journal of Alloys and Compounds, 2009, 482, 187-195.	2.8	16
28	Influence of temperature on oxidation behaviour of ZE41 magnesium alloy. Journal of Alloys and Compounds, 2010, 491, 131-136.	2.8	15
29	Modification of microstructure and superficial properties of A356 and A356/10%SiCp by Selective Laser Surface Melting (SLSM). Surface and Coatings Technology, 2017, 309, 1001-1009.	2.2	11
30	Corrosion Resistance of Al/SiC Laser Cladding Coatings on AA6082. Coatings, 2020, 10, 673.	1.2	10
31	Evaluation of the Wear Resistance and Corrosion Behavior of Laser Cladding Al/SiC Metal Matrix Composite Coatings on ZE41 Magnesium Alloy. Coatings, 2021, 11, 639.	1.2	10
32	Ti6Al4V/SiC Metal Matrix Composites Additively Manufactured by Direct Laser Deposition. Metals and Materials International, 2022, 28, 3120-3144.	1.8	10
33	An Introduction on the Laser Cladding Coatings on Magnesium Alloys. Metals, 2021, 11, 1993.	1.0	9
34	Oxy-Acetylene Flame Thermal Spray of Al/SiCp Composites with High Fraction of Reinforcements. Journal of Thermal Spray Technology, 2009, 18, 642-651.	1.6	8
35	Corrosion Behavior of Mg-Al Alloys with Aluminum Thermal Spray Coatings in Humid and Saline Environments. Corrosion, 2009, 65, 817-830.	0.5	8
36	Wear Resistance of Aluminum Matrix Compositesâ€™ Coatings Added on AA6082 Aluminum Alloy by Laser Cladding. Coatings, 2022, 12, 41.	1.2	8

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37	Additively Manufactured Al/SiC Cylindrical Structures by Laser Metal Deposition. Materials, 2020, 13, 3331.	1.3	7
38	Effect of Heat Treatment on the Corrosion Behaviour of a Mg-Y Alloy in Chloride Medium. Materials Science Forum, 2010, 636-637, 491-496.	0.3	3
39	Oxide dispersion strengthened Feâ€“12Cr steel in three dimensions: An electron tomography study. Journal of Nuclear Materials, 2014, 444, 416-420.	1.3	3
40	Influence of the Feed Powder Composition in Mechanical Properties of AlN-Nano-Reinforced Aluminium Composites Coatings Deposited by Reactive Direct Laser Deposition. Metals, 2020, 10, 926.	1.0	3
41	Mecanismos de corrosiÃ³n en materiales compuestos de matriz de aluminio con refuerzo de SiC. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 233-236.	0.9	3
42	Laser Cladding of <i>In Situ</i> Al-AlN Composite on Light Alloys Substrate. Key Engineering Materials, 0, 724, 66-70.	0.4	2
43	Reactividad entre whiskers de ÃŽÂ±-SiC y aluminio durante el procesado por vÃa lÃquida de materiales compuestos de matriz metÃ¡lica. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 1999, 38, 193-200.	0.9	2
44	Estudio de la reactividad entre aleaciones de aluminio y partÃculas de SiC. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 243-250.	0.9	2
45	Carrying Gas Influence and Fabrication Parameters Impact in 3D Manufacturing of In Situ TiN-Ti Composites by Direct Laser Deposition. Metals and Materials International, 2023, 29, 591-606.	1.8	1
46	Additive Manufacturing of Al and Mg Alloys and Composites. , 2022, , 245-255.		0
47	Estudio de la intercara de una preforma hÃbrida infiltrada sin presiÃ³n. Revista De Metalurgia, 2010, 46, 33-39.	0.1	0
48	Additive Manufacturing of Metallic Components for Hard Coatings. Coatings, 2022, 12, 1007.	1.2	0