List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Influence of process parameters in additive manufacturing of highly reinforced 316L / SiCp composites. Journal of Materials Processing Technology, 2022, 299, 117325.	3.1	17
2	Effect of Magnesium Addition and High Energy Processing on the Degradation Behavior of Iron Powder in Modified Hanks' Solution for Bioabsorbable Implant Applications. Metals, 2022, 12, 78.	1.0	2
3	Impact of Remelting in the Microstructure and Corrosion Properties of the Ti6Al4V Fabricated by Selective Laser Melting. Coatings, 2022, 12, 284.	1.2	6
4	Wear Resistance of Aluminum Matrix Composites' Coatings Added on AA6082 Aluminum Alloy by Laser Cladding. Coatings, 2022, 12, 41.	1.2	8
5	Manufacturing of Aluminum Matrix Composites Reinforced with Carbon Fiber Fabrics by High Pressure Die Casting. Materials, 2022, 15, 3400.	1.3	6
6	The Role of the Sol-Gel Synthesis Process in the Biomedical Field and Its Use to Enhance the Performance of Bioabsorbable Magnesium Implants. Gels, 2022, 8, 426.	2.1	7
7	Local Induction Heating Capabilities of Zeolites Charged with Metal and Oxide MNPs for Application in HDPE Hydrocracking: A Proof of Concept. Materials, 2021, 14, 1029.	1.3	7
8	Influence of roughness and grinding direction on the thickness and adhesion of sol-gel coatings deposited by dip-coating on AZ31 magnesium substrates. A Landau–Levich equation revision. Surface and Coatings Technology, 2021, 408, 126798.	2.2	20
9	Analysis of strain sensitivity under flexural load of 3D printed carbon nanotube-doped epoxy circuits. Nanotechnology, 2021, 32, 185501.	1.3	2
10	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
11	Modulation of Crystallinity through Radiofrequency Electromagnetic Fields in PLLA/Magnetic Nanoparticles Composites: A Proof of Concept. Materials, 2021, 14, 4300.	1.3	1
12	Hard Anodizing and Plasma Electrolytic Oxidation of an Additively Manufactured Al-Si alloy. Surface and Coatings Technology, 2021, 420, 127339.	2.2	25
13	Structural health monitoring of a CFRP structural bonded repair by using a carbon nanotube modified adhesive film. Composite Structures, 2021, 270, 114091.	3.1	16
14	Plastic waste recycling via pyrolysis: A bibliometric survey and literature review. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105265.	2.6	81
15	Sol-gel coatings doped with graphene nanoplatelets for improving the degradation rate and the cytocompatibility of AZ31 alloy for biomedical applications. Surface and Coatings Technology, 2021, 426, 127745.	2.2	7
16	Comparison of Different Additive Manufacturing Methods for 316L Stainless Steel. Materials, 2021, 14, 6504.	1.3	30
17	Application of computational approach in plastic pyrolysis kinetic modelling: a review. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 591-614.	0.8	14
18	Cavity formation and hardness change in He implanted EUROFER97 and EU-ODS EUROFER. Nuclear Materials and Energy, 2020, 22, 100717.	0.6	1

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19	Silicon oxide multilayer coatings doped with carbon nanotubes and graphene nanoplatelets for corrosion protection of AZ31B magnesium alloy. Progress in Organic Coatings, 2020, 148, 105836.	1.9	23
20	Corrosion Resistance of Al/SiC Laser Cladding Coatings on AA6082. Coatings, 2020, 10, 673.	1.2	10
21	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
22	Additively Manufactured Al/SiC Cylindrical Structures by Laser Metal Deposition. Materials, 2020, 13, 3331.	1.3	7
23	High Power Diode Laser (HPDL) surface treatments to improve the mechanical properties and the corrosion behaviour of Mg-Zn-Ca alloys for biodegradable implants. Surface and Coatings Technology, 2020, 402, 126314.	2.2	12
24	Microstructural, mechanical and corrosion characterization of an as-cast Mg–3Zn–0.4Ca alloy for biomedical applications. Journal of Magnesium and Alloys, 2020, 8, 510-522.	5.5	44
25	Fabrication, Wear, and Corrosion Resistance of HVOF Sprayed WC-12Co on ZE41 Magnesium Alloy. Coatings, 2020, 10, 502.	1.2	11
26	PLA deposition on surface treated magnesium alloy: Adhesion, toughness and corrosion behaviour. Surface and Coatings Technology, 2020, 388, 125593.	2.2	30
27	Mg–1Zn–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
28	Application of DOE and ANOVA in Optimization of HVOF Spraying Parameters in the Development of New Ti Coatings. Journal of Thermal Spray Technology, 2020, 29, 384-399.	1.6	15
29	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
30	Effect of graphene nanoplatelets thickness on strain sensitivity of nanocomposites: A deeper theoretical to experimental analysis. Composites Science and Technology, 2019, 181, 107697.	3.8	33
31	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
32	Corrosion behavior of 316L stainless steel coatings on ZE41 magnesium alloy in chloride environments. Surface and Coatings Technology, 2019, 378, 124994.	2.2	22
33	Characterization and mechanical properties of stainless steel coatings deposited by HVOF on ZE41 magnesium alloy. Surface and Coatings Technology, 2019, 359, 73-84.	2.2	21
34	Nanoindentation and TEM to Study the Cavity Fate after Post-Irradiation Annealing of He Implanted EUROFER97 and EU-ODS EUROFER. Micromachines, 2018, 9, 633.	1.4	11
35	Wear Resistance of Stainless Steel Coatings on ZE41 Magnesium Alloy. Journal of Thermal Spray Technology, 2018, 27, 1615-1631.	1.6	13
36	Interfacial characterization by TEM and nanoindentation of W-Eurofer brazed joints for the first wall component of the DEMO fusion reactor. Materials Characterization, 2018, 142, 162-169.	1.9	18

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37	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
38	Dry sliding wear behavior of globular AZ91 magnesium alloy and AZ91/SiCp composites. Wear, 2017, 390-391, 1-10.	1.5	120
39	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
40	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
41	316L stainless steel coatings on ZE41 magnesium alloy using HVOF thermal spray for corrosion protection. Surface and Coatings Technology, 2016, 287, 9-19.	2.2	54
42	Analysis and optimization of process parameters in Al–SiCp laser cladding. Optics and Lasers in Engineering, 2016, 78, 165-173.	2.0	68
43	Al/SiCp and Al11Si/SiCp coatings on AZ91 magnesium alloy by HVOF. Surface and Coatings Technology, 2015, 261, 130-140.	2.2	27
44	Protection of carbon steel against molten aluminum attack and high temperature corrosion using high velocity oxygen-fuel WC–Co coatings. Surface and Coatings Technology, 2015, 262, 123-133.	2.2	33
45	Comparative study of helium effects on EU-ODS EUROFER and EUROFER97 by nanoindentation and TEM. Journal of Nuclear Materials, 2015, 460, 226-234.	1.3	20
46	Optimisation of the high velocity oxygen fuel (HVOF) parameters to produce effective corrosion control coatings on AZ91 magnesium alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 423-433.	0.8	32
47	Fracture behaviour of a magnesium–aluminium alloy treated by selective laser surface melting treatment. Materials & Design, 2014, 55, 361-365.	5.1	18
48	Influence of the chloride ion concentration on the corrosion of high-purity Mg, ZE41 and AZ91 in buffered Hank's solution. Journal of Materials Science: Materials in Medicine, 2014, 25, 329-345.	1.7	49
49	Corrosion behaviour of laser surface melted magnesium alloy AZ91D. Materials & Design, 2014, 57, 40-50.	5.1	73
50	High-temperature corrosion behavior of Ni–50Cr coating deposited by high velocity oxygen–fuel technique on low alloy ferritic steel. Materials & Design, 2014, 59, 94-102.	5.1	34
51	Dry sliding wear behavior of AM50B magnesium alloy. Materials & Design, 2014, 56, 549-556.	5.1	77
52	Analysis of the brazeability of W–W joints using a high temperature Ni-based alloy. Materials & Design, 2014, 54, 900-905.	5.1	16
53	Effect of helium implantation on mechanical properties of EUROFER97 evaluated by nanoindentation. Journal of Nuclear Materials, 2014, 448, 301-309.	1.3	16
54	Dry sliding wear behaviour of laser surface melting treated AM60B magnesium alloy. Surface and Coatings Technology, 2013, 236, 368-379.	2.2	23

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55	Oxy-acetylene flame thermal sprayed coatings of aluminium matrix composites reinforced with MoSi2 intermetallic particles. Surface and Coatings Technology, 2013, 236, 274-283.	2.2	17
56	Dry sliding wear behavior of AM60B magnesium alloy. Wear, 2013, 301, 615-625.	1.5	81
57	Novel laser surface treatments on AZ91 magnesium alloy. Surface and Coatings Technology, 2013, 222, 118-127.	2.2	33
58	Influence of high velocity oxygen-fuel spraying parameters on the wear resistance of Al–SiC composite coatings deposited on ZE41A magnesium alloy. Materials & Design, 2013, 43, 144-152.	5.1	45
59	Characterization of the Corrosion Behavior of a Mg Alloy in Chloride Solution. Corrosion, 2013, 69, 497-508.	0.5	13
60	Use of carbon nanotubes for strain and damage sensing of epoxy-based composites. International Journal of Smart and Nano Materials, 2012, 3, 152-161.	2.0	14
61	Selective laser surface melting of a magnesium-aluminium alloy. Materials Letters, 2012, 85, 98-101.	1.3	47
62	Application of atomic force microscopy to the study of blown polyethylene films. Polymer Testing, 2012, 31, 136-148.	2.3	5
63	Wear resistant coatings: Silica sol–gel reinforced with carbon nanotubes. Thin Solid Films, 2011, 519, 7904-7910.	0.8	28
64	Experimental study of W–Eurofer laser brazing for divertor application. Journal of Nuclear Materials, 2011, 418, 239-248.	1.3	28
65	Dry sliding wear behaviour of ZE41A magnesium alloy. Wear, 2011, 271, 2836-2844.	1.5	67
66	Characterization of carbon nanofiber/epoxy nanocomposites by the nanoindentation technique. Composites Part B: Engineering, 2011, 42, 638-644.	5.9	62
67	Wear improvement of sol–gel silica coatings on A380/SiCp aluminium composite substrate by diode laser sintering. Materials & Design, 2011, 32, 3865-3875.	5.1	8
68	Sol–gel coatings of low sintering temperature for corrosion protection of ZE41 magnesium alloy. Surface and Coatings Technology, 2011, 205, 4183-4191.	2.2	32
69	Sol–gel silica coatings on ZE41 magnesium alloy for corrosion protection. Surface and Coatings Technology, 2010, 205, 2375-2385.	2.2	27
70	Fabrication of novel sol–gel silica coatings reinforced with multi-walled carbon nanotubes. Materials Letters, 2010, 64, 924-927.	1.3	10
71	Tough ceramic coatings: Carbon nanotube reinforced silica sol–gel. Applied Surface Science, 2010, 256, 6375-6384.	3.1	25
72	Wear behaviour of thermal spray Al/SiCp coatings. Wear, 2010, 268, 828-836.	1.5	40

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73	Fabrication of aluminium composites reinforced with carbon fibres by a centrifugal infiltration process. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1605-1611.	3.8	61
74	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
75	Estudio de la intercara de una preforma hÃbrida infiltrada sin presión. Revista De Metalurgia, 2010, 46, 33-39.	0.1	0
76	Properties and microstructure of Al–11Si/SiCp composite coatings fabricated by thermal spray. Surface and Coatings Technology, 2009, 203, 1947-1955.	2.2	24
77	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
78	Laser densification of sol–gel silica coatings on aluminium matrix composites for corrosion and hardness improvement. Surface and Coatings Technology, 2009, 203, 1474-1480.	2.2	16
79	Corrosion resistance of thermally sprayed Al and Al/SiC coatings on Mg. Surface and Coatings Technology, 2009, 203, 3224-3230.	2.2	106
80	Effect of reinforcement coatings on the dry sliding wear behaviour of aluminium/SiC particles/carbon fibres hybrid composites. Wear, 2009, 266, 1128-1136.	1.5	66
81	Microstructure and wear resistance of Al–SiC composites coatings on ZE41 magnesium alloy. Applied Surface Science, 2009, 255, 9174-9181.	3.1	58
82	High power diode laser treatments for improving corrosion resistance of A380/SiCp aluminium composites. Surface and Coatings Technology, 2008, 202, 4291-4301.	2.2	22
83	Oxidation Mechanisms of Copper and Nickel Coated Carbon Fibers. Oxidation of Metals, 2008, 69, 327-341.	1.0	16
84	Protection against corrosion of aluminium-SiC composites by sol–gel silica coatings. Surface and Coatings Technology, 2008, 202, 3755-3763.	2.2	19
85	Al/SiC composite coatings of steels by thermal spraying. Materials Letters, 2008, 62, 2114-2117.	1.3	21
86	Hardness recovery of ceramic coated aluminium matrix composites using thermal-shock resistant sol–gel silica coatings. Materials Letters, 2008, 62, 4315-4318.	1.3	8
87	Electroless nickel coated short carbon fibres in aluminium matrix composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 566-575.	3.8	114
88	Effect of copper electroless coatings on the interaction between a molten Al–Si–Mg alloy and coated short carbon fibres. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1947-1956.	3.8	68
89	Assessment of tensile behaviour of an Al–Mg alloy composite reinforced with NiAl and oxidized NiAl powder particles helped by nanoindentation. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2536-2540.	3.8	19
90	Thermal spray coatings of highly reinforced aluminium matrix composites with sol–gel silica coated SiC particles. Surface and Coatings Technology, 2007, 201, 7552-7559.	2.2	29

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91	Surface treatment of aluminum matrix composites using a high power diode laser. Surface and Coatings Technology, 2007, 202, 1199-1203.	2.2	24
92	Electroless multilayer coatings on aluminium–silicon carbide composites for electronics packaging. Journal of the European Ceramic Society, 2007, 27, 3983-3986.	2.8	18
93	Dual layer silica coatings of SiC particle reinforcements in aluminium matrix composites. Surface and Coatings Technology, 2006, 200, 4017-4026.	2.2	17
94	Characterisation of multilayered sol–gel silica coatings on aluminium–SiC composites. Surface and Coatings Technology, 2006, 201, 3715-3722.	2.2	15
95	Characterization of interfacial mechanical properties in carbon fiber/aluminium matrix composites by the nanoindentation technique. Composites Science and Technology, 2005, 65, 2025-2038.	3.8	108
96	Effect of silica coatings on interfacial mechanical properties in aluminium—SiC composites characterized by nanoindentation. Scripta Materialia, 2005, 52, 977-982.	2.6	45
97	Characterization of LiNbO3 waveguides fabricated by proton exchange in water. Applied Physics A: Materials Science and Processing, 2005, 81, 205-208.	1.1	6
98	Effect of Reinforcement Coating on the Oxidation Behavior of AA6061/SiC/20p Composite. Oxidation of Metals, 2005, 63, 215-227.	1.0	28
99	Determinación mediante nanoindentación de las propiedades mecánicas de la interfaz en materiales compuestos de aluminio reforzados con partÃculas de SiC recubiertas de sÃ l ice. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 270-277.	0.9	3
100	Sol-gel coatings to improve processing of aluminium matrix SiC reinforced composite materials. Journal of Materials Research, 2004, 19, 2109-2116.	1.2	20
101	Temperature effects in proton exchanged LiNbO3 waveguides. Applied Physics B: Lasers and Optics, 2004, 79, 845-849.	1.1	15
102	Sol–Gel Coatings as Active Barriers to Protect Ceramic Reinforcement in Aluminum Matrix Composites. Advanced Engineering Materials, 2004, 6, 57-61.	1.6	19
103	Interacción entre el aluminio fundido y las fibras de carbono recubiertas con cobre y nÃquel en materiales compuestos de matriz metálica. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 409-412.	0.9	3
104	Las pequeñas y medianas empresas del sector metalúrgico en la zona sur de la Comunidad de Madrid: Gestión medioambiental y necesidades de formación. Revista De Metalurgia, 2004, 40, 209-213.	0.1	2
105	Optical damage inhibition and thresholding effects in lithium niobate above room temperature. Optics Communications, 2000, 178, 211-216.	1.0	31
106	CdTe epilayers for uses in optical waveguides. Applied Physics A: Materials Science and Processing, 2000, 71, 277-279.	1.1	18
107	Second harmonic generation of thin LiNbO3 samples for acoustic wave devices. Electronics Letters, 2000, 36, 1596.	0.5	0
108	Effects of pump heating on laser and spectroscopic properties of the Nd:[YAl3(BO3)4] self-frequency-doubling laser. Journal of Applied Physics, 2000, 87, 1042-1048.	1.1	37

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109	ANALYTICAL ESTIMATES OF THE EFFECT OF NONLINEAR DAMPING IN SOME NONLINEAR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2257-2267.	0.7	49
110	Mode gaps in the refractive index properties of low-dose ion-implanted LiNbO3 waveguides. Journal of Applied Physics, 2000, 87, 3199-3202.	1.1	64
111	Second harmonic generation in the strong absorption regime. Journal of Modern Optics, 2000, 47, 1659-1669.	0.6	8
112	Cathodoluminescence enhancement in porous silicon cracked in vacuum. Applied Physics Letters, 1999, 74, 1728-1730.	1.5	16
113	Nonlinear optical efficient LiNbO3 waveguides proton exchanged in benzoic acid vapor: Effect of the vapor pressure. Journal of Applied Physics, 1999, 85, 1322-1328.	1.1	12
114	Cathodoluminescence from mechanically cracked porous silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 68, 126-129.	1.7	4
115	Improved surface quality of Nd:YAG monitored by second harmonic generation. Optics Communications, 1999, 167, 171-176.	1.0	6
116	Light-induced damage mechanisms in α-phase proton-exchanged LiNbO 3 waveguides. Applied Physics B: Lasers and Optics, 1999, 68, 989-993.	1.1	18
117	Near-field characterization of thin planar optical waveguides. Journal of Modern Optics, 1999, 46, 1137-1147.	0.6	0
118	Preparation of proton-exchange LiNbO_3 waveguides in benzoic acid vapor. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 401.	0.9	28
119	Second harmonic generation capabilities of ion implanted LiNbO3 waveguides. Journal of Applied Physics, 1998, 84, 5180-5183.	1.1	31
120	SHG-capabilities of reverse PE-LINbO3 waveguides. Electronics Letters, 1997, 33, 322.	0.5	15
121	Refractive indices of rutile as a function of temperature and wavelength. Journal of Applied Physics, 1997, 82, 994-997.	1.1	54
122	Proton exchange of quasistoichiometric LiNbO3. Journal of Applied Physics, 1997, 82, 4752-4757.	1.1	19
123	Structure of high index proton exchange LiNbO3 waveguides with undegraded nonlinear optical coefficients. Applied Physics Letters, 1997, 71, 3356-3358.	1.5	17
124	High-index proton-exchanged waveguides in Z-cut LiNbO3 with undegraded nonlinear optical coefficients. Applied Physics Letters, 1997, 70, 2076-2078.	1.5	16
125	A far-field method for characterizing thin planar optical waveguides. Optics Communications, 1997, 139, 205-208.	1.0	4
126	Hydrogen in lithium niobate. Advances in Physics, 1996, 45, 349-392.	35.9	165

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127	Relationship between Laser Parameters - Microstructural Modification - Mechanical Properties of Laser Surface Melted Magnesium Alloy AZ91D. Materials Science Forum, 0, 765, 678-682.	0.3	0