

MarÃ-a JosÃ© Tobar

List of Publications by Year in descending order

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47

papers

1,211

citations

361413

20

h-index

377865

34

g-index

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all docs

48

docs citations

48

times ranked

1058

citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology and characterization of laser clad composite NiCrBSiâ€“WC coatings on stainless steel. <i>Surface and Coatings Technology</i> , 2006, 200, 6313-6317.	4.8	171
2	First measurement of the $\langle mml:math altimg="s1.gif" \rangle$ overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ge="http://www.elsevier.com/x	4.1	90
3	Laser cladding of tungsten carbides (SpheroteneÂ®) hardfacing alloys for the mining and mineral industry. <i>Applied Surface Science</i> , 2009, 255, 5553-5556.	6.1	86
4	Tribology and high temperature friction wear behavior of MCrAlY laser cladding coatings on stainless steel. <i>Wear</i> , 2015, 330-331, 280-287.	3.1	77
5	High temperature oxidation behavior of laser cladding MCrAlY coatings on austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2015, 270, 243-248.	4.8	58
6	Study of residual stresses generated inside laser cladded plates using FEM and diffraction of synchrotron radiation. <i>Surface and Coatings Technology</i> , 2010, 204, 1983-1988.	4.8	53
7	Crack Free Tungsten Carbide Reinforced Ni(Cr) Layers obtained by Laser Cladding. <i>Physics Procedia</i> , 2011, 12, 338-344.	1.2	50
8	Characteristics of Tribaloy T-800 and T-900 coatings on steel substrates by laser cladding. <i>Surface and Coatings Technology</i> , 2008, 202, 2297-2301.	4.8	49
9	Laser transformation hardening of a tool steel: Simulation-based parameter optimization and experimental results. <i>Surface and Coatings Technology</i> , 2006, 200, 6362-6367.	4.8	43
10	Comparative Study of Co-based Alloys in Repairing Low Cr-Mo steel Components by Laser Cladding. <i>Physics Procedia</i> , 2012, 39, 368-375.	1.2	42
11	Compositional analysis of Hispanic Terra Sigillata by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1149-1154.	2.9	41
12	Modeling of phase transformations of Ti6Al4V during laser metal deposition. <i>Physics Procedia</i> , 2011, 12, 666-673.	1.2	40
13	Boron addition in a non-equiautomic Fe50Mn30Co10Cr10 alloy manufactured by laser cladding: Microstructure and wear abrasive resistance. <i>Applied Surface Science</i> , 2020, 515, 146084.	6.1	39
14	Determination of $\langle mml:math altimg="s1.gif" \rangle$ scattering lengths from measurement of $\langle mml:math altimg="s1.gif" \rangle$ overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="s1.gif" \rangle	4.0	38
15	DIRAC: A high resolution spectrometer for pionium detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 515, 467-496.	1.6	34
16	The ring imaging Cherenkov detectors of DELPHI. <i>IEEE Transactions on Nuclear Science</i> , 1995, 42, 499-504.	2.0	32
17	Laser Cladding of MCrAlY Coatings on Stainless Steel. <i>Physics Procedia</i> , 2014, 56, 276-283.	1.2	29
18	Characterization of hard coatings produced by laser cladding using laser-induced breakdown spectroscopy technique. <i>Applied Surface Science</i> , 2015, 336, 396-400.	6.1	27

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19	Detection of π^+ atoms with the DIRAC spectrometer at CERN. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, 1929-1946.	3.6	23
20	Ni-based Metal Matrix Composite Functionally Graded Coatings. <i>Physics Procedia</i> , 2012, 39, 362-367.	1.2	23
21	Experimental and simulation studies on laser conduction welding of AA5083 aluminium alloys. <i>Physics Procedia</i> , 2010, 5, 299-308.	1.2	18
22	A comparison of laser deposition of commercially pure titanium using gas atomized or Ti sponge powders. <i>Surface and Coatings Technology</i> , 2019, 374, 253-263.	4.8	15
23	Laser Cladding of Ni-WC Layers with Graded WC Content. <i>Physics Procedia</i> , 2014, 56, 269-275.	1.2	14
24	A Study on the Effects of the Use of Gas or Water Atomized AISI 316L Steel Powder on the Corrosion Resistance of Laser Deposited Material. <i>Physics Procedia</i> , 2016, 83, 606-612.	1.2	14
25	Surface Modification of Porous Titanium Discs Using Femtosecond Laser Structuring. <i>Metals</i> , 2020, 10, 748.	2.3	14
26	Effect of alloying elements on laser surface modification of powder metallurgy to improve surface mechanical properties of beta titanium alloys for biomedical application. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1222-1234.	5.8	14
27	Application of the Laplace transform dual reciprocity boundary element method in the modelling of laser heat treatments. <i>Engineering Analysis With Boundary Elements</i> , 2005, 29, 126-135.	3.7	12
28	Current achievements of the DELPHI ring imaging Cherenkov detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 371, 12-15.	1.6	11
29	ModelizaciÃ³n de las transformaciones de fase en el proceso de endurecimiento de aceros con lÃ¡ser de CO ₂ . <i>Revista De Metalurgia</i> , 2004, 40, 365-368.	0.5	10
30	The time-of-flight detector of the DIRAC experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 491, 41-53.	1.6	9
31	Laser Surface Modification in Ti-xNb-yMo Alloys Prepared by Powder Metallurgy. <i>Metals</i> , 2021, 11, 367.	2.3	6
32	Laser Powder Welding with a Co-based alloy for repairing steam circuit components in thermal power stations. <i>Physics Procedia</i> , 2010, 5, 349-358.	1.2	5
33	ModelizaciÃ³n y monitorizaciÃ³n de procesos de refusiÃ³n lÃ¡ser de recubrimientos depositados por plasma. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2004, 43, 441-444.	1.9	5
34	Dirac experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001, 96, 259-266.	0.4	4
35	Laser Cladding of Ni Based Cermets. <i>Materials Science Forum</i> , 2006, 514-516, 723-728.	0.3	4
36	Separation of fluorocarbons in the fluid systems of the DELPHI Barrel RICH detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 371, 263-267.	1.6	3

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37	Effects of Laser Surface Melting on Ti-30Nb-2Sn Sintered Alloy. <i>Advanced Engineering Materials</i> , 2017, 19, 1500640.	3.5	3
38	Performance of the ring imaging Cherenkov detector of DELPHI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 367, 233-239.	1.6	1
39	Tribaloy-800 coatings on steel substrates by means of laser cladding: Dilution effects on the microstructure and coating performance. , 2006, , .		1
40	Effect of processing parameters in manufacturing of 3D parts through laser direct metal deposition. , 2010, , 451-454.		1
41	Beam attenuation in the laser cladding process. , 0, , .		0
42	A 3D FEM model of residual stress generation during laser cladding. , 2007, , .		0
43	Laser cladding of tungsten carbide hardfacing alloys on steels used in mining industry. , 2008, , .		0
44	Direct metal deposition of functional graded material. , 2013, , .		0
45	Application of 3D laser manufacturing in fabrication or repair of high-value metal component for the foundry industry. <i>Advances in Materials and Processing Technologies</i> , 2016, 2, 539-547.	1.4	0
46	Laser cladding of multiple track composite NiCrBSi coatings. , 2006, , .		0
47	Microstructure of MCrAlY coatings on steel substrates. , 2013, , .		0