

Omar Jimenez

List of Publications by Year in descending order

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410
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical behavior and microstructural characterization of 1026 Ni–B coated steel. Applied Surface Science, 2006, 253, 592-599.	3.1	58
2	Sintering study of Ti6Al4V powders with different particle sizes and their mechanical properties. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 1389-1401.	2.4	32
3	Mechanical properties and tribological behavior at micro and macro-scale of WC/WCN/W hierarchical multilayer coatings. Tribology International, 2016, 101, 194-203.	3.0	24
4	Wear modes in open porosity titanium matrix composites with TiC addition processed by spark plasma sintering. Transactions of Nonferrous Metals Society of China, 2019, 29, 1653-1664.	1.7	22
5	Sintering behaviour and mechanical characterisation of Ti6Al4V/TiN composites and bilayer components. Powder Metallurgy, 2017, 60, 257-266.	0.9	21
6	Study of the erosive wear behaviour of cryogenically and tempered WC-CoCr coating deposited by HVOF. Wear, 2017, 376-377, 595-607.	1.5	21
7	Constrained sintering and wear properties of Cu-WC composite coatings. Transactions of Nonferrous Metals Society of China, 2017, 27, 2214-2224.	1.7	21
8	Processing and properties of highly porous Ti6Al4V mimicking human bones. Journal of Materials Research, 2018, 33, 650-661.	1.2	18
9	The morphology and structure of PVD Zr–Cu thin films. Journal Physics D: Applied Physics, 2009, 42, 085308.	1.3	15
10	Analysis of Compression and Permeability Behavior of Porous Ti6Al4V by Computed Microtomography. Metals and Materials International, 2019, 25, 669-682.	1.8	15
11	Design and characterization of Ti6Al4V/20CoCrMo–highly porous Ti6Al4V biomedical bilayer processed by powder metallurgy. Transactions of Nonferrous Metals Society of China, 2021, 31, 178-192.	1.7	14
12	Structure and mechanical properties of nitrogen-containing Zr–Cu based thin films deposited by pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2008, 41, 155301.	1.3	13
13	Characterization of Ti6Al4V–Ti6Al4V/30Ta Bilayer Components Processed by Powder Metallurgy for Biomedical Applications. Metals and Materials International, 2020, 26, 205-220.	1.8	13
14	Micro and Macro-Tribology Behavior of a Hierarchical Architecture of a Multilayer TaN/Ta Hard Coating. Coatings, 2020, 10, 263.	1.2	10
15	Tribocorrosion and corrosion behavior of quaternary Ti-24Nb-xZr-ySn alloys in SBF. Materials Letters, 2021, 283, 128903.	1.3	10
16	Effect of the Ag addition on the compressibility, sintering and properties of Ti6Al4V/xAg composites processed by powder metallurgy. Journal of Alloys and Compounds, 2022, 890, 161813.	2.8	10
17	Study of the methane flow influence in the micro-tribology behavior of DLC coatings deposited by PECVD: a Raman analysis. Carbon Letters, 2021, 31, 47-56.	3.3	9
18	Synthesis and characterisation of Ti6Al4V/xTa alloy processed by solid state sintering. Powder Metallurgy, 2020, 63, 64-74.	0.9	8

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19	The effect of C content on the mechanical properties of Ti–Zr coatings. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 49, 269-276.	1.5	7
20	Semi-solid Sintering of Ti6Al4V/CoCrMo Composites for Biomedical Applications. <i>Materials Research</i> , 2019, 22, .	0.6	7
21	Fabrication and characterization of highly porous Ti6Al4V/xTa composites for orthopedic applications. <i>Journal of Materials Science</i> , 2020, 55, 16419-16431.	1.7	7
22	Investigation of a Ti–30Zr binary alloy fabricated through spark plasma sintering. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9328-9340.	2.6	7
23	Small grain size zirconium-based coatings deposited by magnetron sputtering at low temperatures. <i>Thin Solid Films</i> , 2015, 591, 149-155.	0.8	6
24	Effect of SiC microfibers as a self-healing agent and their influence on oxidation and adhesion resistance of thermal barrier coatings exposed to cyclic thermal oxidation treatments. <i>Surface and Coatings Technology</i> , 2019, 372, 376-389.	2.2	6
25	Ti-TiH ₂ matrix composites reinforced with TiN by high vacuum sintering (HVS) for biomedical applications. <i>Materials Letters</i> , 2020, 277, 128382.	1.3	6
26	Tribocorrosion behavior of Ti64-xTa alloys fabricated through powder metallurgy. <i>Materials Letters</i> , 2020, 280, 128590.	1.3	6
27	Microstructure and corrosion characterization of a Ti-30Zr alloy with Ta additions processed by arc-melting for biomedical applications. <i>Materials Letters</i> , 2021, 284, 129041.	1.3	6
28	Heat treated twin wire arc spray AISI 420 coatings under dry and wet abrasive wear. <i>Metals and Materials International</i> , 2017, 23, 1121-1132.	1.8	5
29	Design of architected Ti6Al4V-based materials for biomedical applications fabricated via powder metallurgy. <i>Materials Today Communications</i> , 2021, 29, 102937.	0.9	5
30	Investigation of the effect of inert inclusions on densification during solid-state sintering of metal matrix composites. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 755-763.	0.6	4
31	Graphitization processes in wear tracks of Bi-layer carbon coating deposited by PVD-HiPIMS technique. <i>Materials Today Communications</i> , 2020, 25, 101597.	0.9	4
32	Effect of a-CN _x top layer on the electrochemical properties of Ta ₂ N/Ta multilayers obtained by HIPIMS. <i>Materials Letters</i> , 2020, 278, 128454.	1.3	4
33	Effect of laser shock processing on erosive resistance of 6061-T6 aluminum. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1522-1530.	1.7	3
34	Tribocorrosion behavior of Spark Plasma Sintering TiC reinforced Ti-based composites. <i>Materials Letters</i> , 2020, 277, 128298.	1.3	3
35	Nanoindentation and tribological properties of Ni ₅₁ Ti _{49-x} Ta _x (x=0, 5, 10 at. %) alloys fabricated by arc melting. <i>Materials Letters</i> , 2021, 284, 129010.	1.3	3
36	Analyzing the compressive behavior of porous Ti6Al4V by X-ray microtomography. <i>Materials Research</i> , 2017, 20, 1511-1517.	0.6	3

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37	Corrosion and tribocorrosion behavior of Ti6Al4V/xTiN composites for biomedical applications. Transactions of Nonferrous Metals Society of China, 2022, 32, 540-558.	1.7	3
38	Sintering kinetics of Ni2FeSb powder alloys produced by mechanical milling. Transactions of Nonferrous Metals Society of China, 2016, 26, 2126-2135.	1.7	2
39	Polarized-light and electron microscopy study of the static domain structure of ferroic Fe ₃ B ₇ O ₁₃ boracite at room temperature. Ferroelectrics, 2018, 534, 73-80.	0.3	2
40	Erosion problem in tool steel using cold box core-making process. China Foundry, 2019, 16, 204-210.	0.5	2
41	X-ray Computed Microtomography Characterization of Ti6Al4V/CoCrMo Biomedical Composite Fabricated by Semi-solid Sintering. Journal of Nondestructive Evaluation, 2021, 40, 1.	1.1	2
42	Effect of CoCrMo Addition on Ti6Al4V/xCoCrMo Biomedical Composites Processed by Powder Metallurgy. Metals, 2021, 11, 1523.	1.0	2
43	Characterization of Constrained Sintering of Powders on Solid Substrate. Materials Science Forum, 0, 793, 135-141.	0.3	1
44	Ion Beam Analysis, structure and corrosion studies of nc-TiN/a-Si ₃ N ₄ nanocomposite coatings deposited by sputtering on AISI 316L. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 130-133.	0.6	1
45	Polarised-Light and Electron Microscopy of the Static Domain Structure of Ferroic Mn ₃ B ₇ O ₁₃ Boracite at Room Temperature. Ferroelectrics, 2015, 482, 46-53.	0.3	1
46	Processing and properties of Titanium alloy based materials with tailored porosity and composition. EPJ Web of Conferences, 2017, 140, 13007.	0.1	1
47	Investigation of graphite/CNTs on the equiatomic AlCoNi alloy: Hardness and surface morphology of the oxide scale. Materials Letters, 2021, 285, 129042.	1.3	0
48	Analysis of in situ gas nitriding by dilatometry of porous Ti6Al4V materials. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	0
49	Microstructural and high-temperature cyclic oxidation response of NiCoCrAlY coatings with and without SiC + ZrB ₂ reactive-element dispenser. Corrosion Science, 2021, 189, 109617.	3.0	0
50	Caracterización de la aleación Ni _{53.5} -Fe _{19.5} -Ga ₂₇ con memoria de forma ferromagnética producida por metalurgia de polvos. Revista De Metalurgia, 2015, 51, e040.	0.1	0