

Melvyn Alvarez Vera

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tribological behavior of borided surface on CoCrMo cast alloy. <i>Wear</i> , 2019, 426-427, 204-211.	3.1	38
2	A study of the wear performance in a hip simulator of a metal-metal Co-Cr alloy with different boron additions. <i>Wear</i> , 2013, 301, 175-181.	3.1	29
3	Biotribological study of multilayer coated metal-on-metal hip prostheses in a hip joint simulator. <i>Wear</i> , 2013, 301, 234-242.	3.1	26
4	Biotribological response of Co-Cr alloy with added boron under ball-on-disc tests. <i>Wear</i> , 2013, 301, 243-249.	3.1	21
5	Study of boriding surface treatment in the tribological behavior of an AISI 316L stainless steel. <i>Wear</i> , 2021, 477, 203825.	3.1	21
6	Wear resistance of graphenic-nickel composite coating on austenitic stainless steel. <i>Materials Letters</i> , 2020, 281, 128769.	2.6	20
7	Cobalt-based PTA coatings, effects of addition of TiC nanoparticles. <i>Vacuum</i> , 2017, 143, 14-22.	3.5	17
8	Regression models to predict the behavior of the coefficient of friction of AISI 316L on UHMWPE under ISO 14243-3 conditions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 248-256.	3.1	14
9	The coefficient of friction of UHMWPE along an entire walking cycle using a ball-on-disc tribometer under arthrokinematics and loading conditions prescribed by ISO 14243-3:2014. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 274-280.	3.1	13
10	A Hybrid Plasma Treatment of H13 Tool Steel by Combining Plasma Nitriding and Post-Oxidation. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6118-6126.	2.5	12
11	Wear resistance of TiN or AlTiN nanostructured Ni-based hardfacing by PTA under pin on disc test. <i>Wear</i> , 2019, 426-427, 1584-1593.	3.1	12
12	Failure analysis of Co-Cr hip resurfacing prosthesis during solidification. <i>Case Studies in Engineering Failure Analysis</i> , 2013, 1, 1-5.	1.2	11
13	Characterisation of PTA processed overlays without and with WC nanoparticles. <i>Surface Engineering</i> , 2017, 33, 857-865.	2.2	11
14	Tribological and microstructural characterization of laser microtextured CoCr alloy tested against UHMWPE for biomedical applications. <i>Wear</i> , 2021, 477, 203819.	3.1	10
15	Forming process using austempered ductile iron (ADI) in an automotive Pitman arm. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 569-575.	3.0	8
16	Effect of graphene oxide on wear resistance of polyester resin electrostatically deposited on steel sheets. <i>Wear</i> , 2019, 426-427, 296-301.	3.1	8
17	Tribological study of a thin TiO ₂ nanolayer coating on 316L steel. <i>Wear</i> , 2017, 376-377, 1702-1706.	3.1	7
18	Characterization of a duplex coating (boriding + sputter-deposited AlCrON) synthesized on an ASTM F-75 cobalt alloy. <i>Thin Solid Films</i> , 2020, 712, 138318.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Tribological performance of Ti nanolayer coating post plasma nitriding treatment on Co based alloy. <i>Wear</i> , 2021, 477, 203798.	3.1	5
20	Growth of a graphenic-Co composite coating on type-304 stainless steel. <i>Vacuum</i> , 2019, 163, 324-327.	3.5	4
21	Effect of the surface texturing treatment with Nd:YAG laser on the wear resistance of CoCr alloy. <i>MRS Advances</i> , 2019, 4, 3031-3039.	0.9	4
22	Biotribological study of multi-nano-layers as a coating for total hip prostheses. <i>Wear</i> , 2017, 376-377, 243-250.	3.1	3
23	Effect of Laser Welding on the Mechanical Properties AISI 1018 Steel. <i>MRS Advances</i> , 2017, 2, 4031-4039.	0.9	3
24	Thermomechanical and Metallurgical Study of Laser-Welded AISI 1018 Steel. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 7281-7289.	2.5	3
25	A novel total hip resurfacing design with improved range of motion and edge-load contact stress. <i>Materials & Design</i> , 2014, 55, 690-698.	5.1	2
26	Fuzzy modeling of refractory cement viscosity to improve thermocouples manufacturing process. <i>Soft Computing</i> , 2020, 24, 17035-17050.	3.6	2
27	Electrothermal energy distribution model for EDM drilling of HSLA steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 3551-3565.	3.0	1
28	Effects of tic Nanostructured Overlays on D2 Steels by PTA. <i>MRS Advances</i> , 2017, 2, 4041-4047.	0.9	1